Jennifer Brooks Hutchinson
Senior Counsel

February 9, 2012

VIA HAND DELIVERY & ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

RE: Docket 4296 – The Narragansett Electric Company, d/b/a National Grid
2012 System Reliability Procurement Plan
Responses to Division Data Requests – Set 2

Dear Ms. Massaro:

Enclosed are ten (10) copies of National Grid's[1] responses to the Division's Second Set of Data Requests issued in the above-captioned proceeding.

The Company's response to Division 2-4 will be forthcoming.

Thank you for your attention to this filing. If you have any questions, please feel free to contact me at (401) 784-7288.

Very truly yours,

Jennifer Brooks Hutchinson

cc: Docket 4296 Service List
Jon Hagopian, Esq.
Steve Scialabba, Division

[1] The Narragansett Electric Company d/b/a National Grid.

Certificate of Service

I hereby certify that a copy of the cover letter and / or any materials accompanying this certificate has been electronically transmitted, sent via U.S. mail or hand-delivered to the individuals listed below.

____
Joanne M. Scanlon

February 9, 2012
Date

Docket No. 4296 - National Grid's 2012 System Reliability Plan Report
Service List – Updated 12/19/11

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Division 2-1

Request:

Please provide a copy of the "internal planning document" referred to on page 4 of the SRP Supplement.

Response:

Please see attachment DIV 2-1.

Prepared by or under the supervision of: Christina Skursky

nationalgrid

United States Electric Operations

Guidelines for Consideration of Non-Wires Alternatives in Transmission and Distribution Planning

Authorized by:

Paul R. Renaud Date: 2/4/11

Paul Renaud, Vice President,
Transmission Asset Management,
National Grid USA Service Company, Inc.

Date: 2/7/11

Bruce J. Walker, Vice President,
Distribution Asset Strategy & Policy,
National Grid USA Service Company, Inc.

Date: 2/8/11

Edward H. White, Vice President,
Energy Products,
National Grid USA Service Company, Inc.

Date: 2/7/11

Cheri Warren, Vice President,
Smart Grid,
National Grid USA Service Company, Inc.

National Grid USA Service Company, Inc.
40 Sylvan Road
Waltham, MA 02451

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1.0 Change Control

Version	Date	Modification	Author(s)	Reviews and Approvals by
1	Feb. 11, 2011	Initial Document	D. Walters D. Smith P.-A. Löf D. Matthews L. Perry	P. Renaud B.J. Walker E.H. White C. Warren

This document should be reviewed at least every two years.

2.0 Purpose

The purpose of this guideline document is to outline a procedure to be used as part of the Transmission (T) and Distribution (D) planning processes to include consideration of Non-Wires Alternatives (NWA) as possible solutions to planning and reliability issues.

This document provides guidance for the screening and analysis of Non-Wire Alternatives and the comparison of feasible Wires and Non-Wires Alternatives, and a framework within which such comparisons can be made.

The procedure described in this document has been developed for a transitional period during which the Company develops experience with planning issues related to NWA's. These guidelines are not requirements; deviations from the guidelines are allowed to address issues arising in specific cases. The guidelines will be updated based on experience in analyzing and implementing NWA projects.

Figure 1 provides a high-level overview of the planning process (including a NWA Screen and a NWA Assessment), which is described in more detail in subsequent sections of this document.

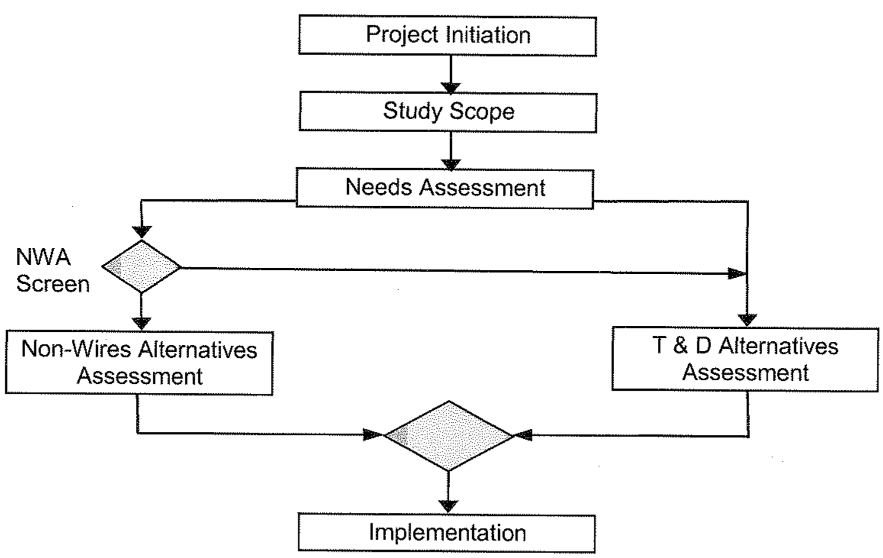

Figure 1: Overview of Planning Process

3.0 Definitions

3.1. Demand Side Management (DSM): Actions that reduce consumer requirements for electric service, including energy efficiency measures and load control measures.

3.2. Distributed Energy Resources (DER): Distributed Generation and Electric Energy Storage.

3.3. Distributed Generation (DG):
3.3.1. An electric power source connected on the customer side of the meter.
3.3.2. A small scale electric power source connected on the wires company's side of the meter.

3.4. Limiting Element: The element within a feeder, substation, and/or transmission line that could constrain transfers or that could be overloaded for design conditions.

3.5. Electric Energy Storage (EES): Means (such as chemical, kinetic, potential energy, etc.) to store energy that will later be converted to electricity.

3.6. Non-Wires Alternatives (NWA): Demand Side Management programs and Distributed Energy Resources that leverage customer/third party resources and complement and improve operation of existing transmission and distribution systems, and that individually or in combination defer the need for upgrades to the transmission and/or distribution system.

3.7. System Reconfiguration: Switching actions used to reallocate how load is served by existing transmission and distribution facilities.

3.8. Wires Alternatives: The construction or replacement of transmission and distribution facilities (e.g., transmission lines, distribution lines, transformers, System Reconfiguration, and reactive supply equipment) to increase the capability of the system to provide reliable operation of the system, the expansion of system automation to more efficiently use existing system capacity, and the application of Distributed Energy Resources on Company Transmission and Distribution assets.

4.0 Responsibilities

The three groups within National Grid that have primary responsibility for implementing these guidelines are Transmission Planning, Distribution Planning, and Energy Products.

4.1. Transmission Planners are responsible for assessing and defining resource needs on the transmission system and recommending solutions (Wires Alternatives).

4.2. Distribution Planners are responsible for assessing and defining resource needs on the distribution and sub-transmission systems, and recommending solutions (Wires Alternatives.

4.3. **Energy Products** Group is responsible for developing and analyzing potential Non-Wires Alternatives based on the requirements provided by Transmission and Distribution Planners. Energy Products is also responsible for developing the plan for permitting, implementing, monitoring, and evaluating the effectiveness of Non-Wires Alternatives.

5.0 Initial Needs Assessment

An initial Needs Assessment is conducted by Transmission Planners or Distribution Planners to identify conditions and Limiting Elements which require relief or system upgrades. Emerging problems are identified as long in advance as practicable, to allow for a comprehensive consideration of both the Wires and the Non-Wires Alternatives.

a) Planners use system models to evaluate the performance of the system within a study area under a variety of conditions. The models represent the existing system (under both normal and contingency operations scenarios) and consider forecasted changes in load, including projected load reductions attributable to approved DSM efforts. The sensitivity of the forecast assumptions is also considered.

b) If the planners identify any Limiting Element(s) within the Study Area, then the needs will be flagged and evaluated so that the conditions are understood and appropriate solutions can be applied.

c) Needs are specified in terms of impacted facilities (usually defined by circuit number, interface, substation, or feeder number), causal factors, system conditions, and projected solution need dates.

d) Planners identify the characteristics of load-based need, including the magnitude of the overload on the Limiting Element, the shape of the load curve that is impacting the loading on the Limiting Element, whether loading relief needs to occur prior to an event on the system or after an event on the system, and the projected year and season in which a solution is needed.

6.0 Alternatives Assessment

An alternatives assessment that identifies potential Wires Solutions to the conditions identified in the Needs Assessment is conducted by Transmission and Distribution Planners. Energy Products may also identify potential Non-Wires Solutions to the conditions identified in the Needs Assessment. Non-Wires Solutions will predominately be designed to reduce the loading on the Limiting Elements, in order to defer the Wires solutions.

The advantages and disadvantages of the various alternatives must be considered. To evaluate the cost differences between the alternatives, it may be necessary to evaluate the alternatives using a Net Present Value (NPV) calculation.

Recommendations for investments are to be presented and documented in a Strategy Paper, Sanction Paper, or Preliminary Work Sanction (PWS) paper.

6.1. Locational Scope of Potential Solutions

Planners identify the needs and the characteristics of the Wires solution, including the location of the loads. Needs may be identified during the course of performing a planning study, as the Transmission or Distribution Planning Engineer observes aspects of the system that may be subject to reliability concerns.

First, Planners identify Limiting Elements within the region where Wires Alternatives could address or defer the needs identified by the Needs Assessment. Then, Planners identify locations where load reductions potentially could address or defer the needs identified by the Needs Assessment. Load reductions may be able to delay, modify, or avoid a Transmission or Distribution project, depending upon the pattern of load growth and the regional DG and DSM potential. With continuous load growth, longer deferrals will require larger load reductions in each succeeding year.

a) This identified region can include both areas served by the Limiting Element and areas served by other Transmission and Distribution facilities to which load can be transferred from the Limiting Element (subject to normal engineering guidelines)[1].

b) If the Limiting Element is a distribution feeder, the region includes the area served by the distribution feeder including its laterals or taps to serve customers, and potentially:

   i) nearby feeders that are in close proximity to laterals or taps from the Limiting Element; and

   ii) feeders that are connected to the Limiting Element through a normally open switch.

c) If the Limiting Element is a component within a distribution substation, the potential region includes:

   i) the area normally served by the feeders from that substation; and

   ii) the area normally served by other substations serving feeders that can take load off the feeders served by the Limiting Element as described above.

d) If the Limiting Element is a transmission line (or substation), the potential region includes:

[1] The extent of reconfiguration of the distribution system may be limited by reliability, stability, operational, safety, or cost considerations.

i) the area downstream[2] from the Limiting Element; and

ii) the area served by transmission lines (or substations) that can pick up load from the Limiting Element:

1) directly by serving a distribution substation currently downstream of the Limiting Element; or

2) indirectly by transfer of feeder loads from substations on the Limiting Element to substations on the alternative line.

e) If the Limiting Element is part of a Transmission Interface, then the region includes facilities on the importing side of the interface.

f) Include other utilities' facilities in assessing options for the incumbent utility to serve its customers' loads cost-effectively, considering, supply options that use the substations and feeders of other utilities, where available.

6.2. Initial Screening of NWA Feasibility

Where an issue has been identified, a Non-Wires Alternative may also be considered as an option to defer the Transmission, Sub-Transmission, or Distribution Wires solution for a period of time. Considering Non-Wires Alternatives to every wires solution is not practical given the low cost of a large volume of potential wires solutions, the magnitude of load relief required in certain situations, the time to acquire Non-Wires Alternatives (and verify their availability) or instances where the issue is poor operating condition of the asset. As a result, the following characteristics are a guide for Transmission and Distribution Planners to identify where Non-Wires Alternatives may be evaluated as an alternative to wires solutions:

A. The Wires solution, based on Engineering judgment, will likely be more than $1M;
B. If load reduction is necessary, then it will be less than 20 percent of the total load in the area of the defined need;
C. Start of construction is at least 36 months in the future; and
D. The need is not based on Asset Condition.

When Transmission and Distribution Planners recognize the need to consider a Non-Wires Alternative, they will communicate the need and request that the Energy Products group assess the feasibility of a Non-Wires Alternative. If the Energy Products group can develop a potentially feasible Non-Wires Alternative, that alternative will be considered concurrent with the Wires Alternatives. It is possible that no Non-Wires Alternatives will be considered feasible for a given need.

[2] For transmission lines served at both ends, "downstream" is defined for the conditions creating the critical load.

6.3. Development of Feasible Alternatives

Feasible Wires and Non-Wires Alternatives are developed by considering technical, economic, environmental, regulatory, reliability, and scheduling factors. The development process includes the following steps:

a) Develop a range of possible Wires and Non-Wires Alternatives. The Wires Alternatives will be developed by Transmission Planning and Distribution Planning, while the Non-Wires Alternatives will be developed by Energy Products. Non-Wires Alternatives will consist of investments in Demand Side Management and Distributed Energy Resources beyond what is included in the base line load forecast (e.g., beyond approved DSM programs). The Non-Wires Alternative plan should have sufficient scale and acceptable costs to avoid, defer, economically reduce, or modify the scope and cost of the Wires Alternative. Use of targeted Demand Side Management actions, such as different types of load control measures, for reducing loading on the Limiting Element should, if applicable, be coordinated with adjacent utilities. The feasibility of a specific Non-Wires Alternative plan depends on the installed and expected mix of end uses and whether the Non-Wires Alternative can be operational in time to avoid significant expenses for the Wires Alternative. A potential NWA should include a discussion of a viable regulatory cost recovery model and cost recovery mechanism (see Appendix).

b) If applicable, determine the Net Present Value associated with the Wires and Non-Wires Alternatives. This analysis shall include the costs associated with the acquisition of (1) load-reduction through DSM and DER incremental to the base-line forecast; (2) load-serving capability from a Wires Alternative; or (3) combination of the above, as well as the avoided costs of deferring or modifying the scope and cost of the Wires Alternative with the Non-Wires Alternative.

c) Define the advantages and disadvantages, both quantitative and qualitative, in terms of benefits and risks for stakeholders.

d) Verify that Non-Wires Alternatives are available when needed, which may be pre- or post-contingency. This may involve determining whether manual or automated controls are necessary.

6.4. Comparison of Alternatives

Feasible alternatives are compared and a preferred solution is selected after considering the following issues:

a) Ability to address the identified needs;

b) Reliability of the alternatives;

c) Results of the Net Present Value analysis;

d) Risks associated with each alternative;

e) Operational complexity and flexibility;

f) Implementation issues; and

g) Other project specific factors.

Until the Company has sufficient experience implementing Non-Wires Alternatives, such alternatives will be viewed as potential demonstration projects. The Company will prioritize the implementation of feasible NWA projects based on the probability of success and their value in adding to the Company's understanding of Non-Wires Alternatives.

6.5. Approvals

The Non-Wires Alternatives evaluation is performed as an integrated part of Transmission Planning or Distribution Planning studies. The preferred and alternative solutions are presented to the appropriate management review group(s) or committee(s), such as the Transmission's Asset Management Investment Committee (AMIC) or the Distribution Capital Investment Group (DCIG), with a recommendation for approval of the preferred alternative.

The approval authority and review process for Transmission Planning projects is described in Transmission Group Procedure, TGP 11, Transmission Asset Management Investment Process, which deals with issues related to Strategy and Sanctioning Process, Project Approval, and Delegations of Authority (DOA). Distribution investment proposals need to conform to DAM-006B - Project Funding Request Form and projects of sufficient size will need to be submitted to DCIG for consideration.

APPENDIX

Potential Ownership Structures

National Grid anticipates that Non-Wires projects will use one or more of the following three potential ownership models.

1) Model 1: Customer provides alternative

Under this Model, the Company would offer specified payments to the Customer(s) providing the Non-Wires Alternative for the duration of the expected deferral period. The customer provided alternative implies that:

a) Customer(s) provide the assets needed to defer Wires Alternative.
b) The Company pays the customer for their commitment to provide, operate and maintain the assets.
c) The Company enters into contractual arrangement directly with Customer(s).

Examples of the Customer Provided Alternatives include:

i) Customer(s) agrees to reduce load when dispatched by the Company (i.e., Targeted Demand Response).
ii) Customer(s) installs and operates Distributed Generation assets that defer a Transmission or Distribution investment for a specified period of time.
iii) Customer installs and operates a long term sustainable load relief mechanism (e.g., more efficient lighting system) with financial assistance from the Company.

2) Model 2: Company procures solution through a third party

Under this Model, the Company may offer specified payments to the Third Party(s) providing the Non-Wires Alternative for the duration of the expected deferral period.

Examples of the Third Party model include:

i) A Demand Response provider procures demand response and dispatches it based on Company criteria.
ii) A third party constructs distributed generation system(s) and enters into a contractual arrangement with the Company.

3) Model 3: Company owns non-wires assets

For this Model, the Company installs non-wires assets that defer a Transmission or Distribution investment. These investments may be permanent (like a renewable generator) or temporary (like mobile generation).

Examples of Company Ownership model include:

The Company installs a mobile peaking distributed generator for a specified period of time, and operates if and when needed.

Division 2-2

Request:

With regard to footnote four on page four of the SRP Supplement, why did the Company screen only two projects that meet the criteria listed in Section 2.1(C) of the guidelines?

Response:

In 2011 there were a number of projects screened for NWA potential by Distribution Planning at National Grid. Of the projects screened, two projects (Wampanoag and Tiverton/Little Compton) met the criteria listed in Section 2.1 (C) of the guidelines. Further analysis of these two projects identified the Tiverton project as the best opportunity for a NWA solution.

Please refer to Commission 2-7 for additional information.

Prepared by or under the supervision of: Christina Skursky

Division 2-3

Request:

With regard to footnote four on page four of the SRP Supplement, is the Company aware of other SRP projects that might meet the criteria listed in Section 2.1(C) of the guidelines? If so, what are they?

Response:

The Company is not currently aware of other SRP projects that might meet the criteria listed in Section 2.1(C) of the guidelines.

Prepared by or under the supervision of: Christina Skursky

Division 2-5

Request:

Please provide a copy of National Grid's 2010 Power Supply Area Forecast for the Narragansett Electric Company, released on April 1, 2010, as referred to on page 4 of the Supplemental SRP.

Response:

Please see Attachment DIV 2-5.

Prepared by or under the supervision of: Alfred Morrissey, Jr.

National Grid USA

New England Distribution System

2010 Power Supply Area Forecast

Forecast Results

Energy Portfolio Management
Electric Load Forecasting

April 1, 2010

National Grid USA

2010 Power Supply Area Forecast
Forecast Results

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Charts

National Grid USA

2010 Power Supply Area Forecast
Forecast Results

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Appendices*

*Note: each appendix contains a separate table of contents and page numbers showing where the various tables can be found.

National Grid USA

New England Distribution System - 2010 Power Supply Area Forecast

Executive Summary – System and Company Peak Demands

New England System

Overview

National Grid New England is a summer peaking electric distribution system serving 1.8 million customers in Massachusetts, Rhode Island and New Hampshire. The current system peak demand of 7,261 MW was reached on August 2, 2006 and is 28% higher than the current winter peak of 5,672 MW achieved on January 16, 2004.

New England system summer and winter peak demands are shown on Charts 1 and 2 below. Summary peak graphs for Massachusetts Electric, Nantucket Electric, Narragansett Electric and Granite State Electric – the four distribution companies that make up the New England system – are shown on Chart 3. Summer and winter *power supply area* (PSA) peak demand forecasts are shown in Appendices A – H, while town-level peak forecasts are shown in Appendix K.

Historical Peak Growth

New England system peak growth averaged 1.4% per year over the last ten years, from 1999 to 2009. This growth rate was more than double the actual growth of energy requirements, which was 0.5% per year over the same period. Peak demand growth was also more than twice has high as energy growth on a weather-adjusted basis, 1.5% per year for peak versus 0.7% per year for energy. Such solid growth in peak demand was due to an expanding economy during most of the historical period, the 2000-2005 housing boom and a steady decline in system load factor. Load factor, which is defined as average hourly load divided by peak load, declines when peak demand grows more rapidly than energy use. Load factors for the four distribution companies are shown on Chart 4 below.

The decline in load factor is related to the long-term trend in the New England economy away from heavy industry and toward more service-oriented industries; and to the increasing share of residential energy consumption in total. Large industrial customers, particularly those that run three shifts, tend to have higher load factors. This is because their average use is close to their peak use which is driven by production processes rather than by air conditioning. Residential and commercial customers, on the other hand, tend to have lower load factors because air conditioning use during hot summer weather can drive their peak use well above their average use.

All load growth over the last ten years has come from residential and commercial customers. Electric deliveries to industrial customers declined at an average annual rate of 3.0% from 1999 to 2009. Large manufacturing plants – especially those in New England's mature industries such as textiles, paper products, glass, plastics, jewelry, and metal products – have been losing market share to lower cost producers. The share of industrial in total gWh deliveries now stands at just 15% versus 21% in 1999. Moreover, the remaining industrial class has become somewhat weather-sensitive as many of the smaller, more high-tech businesses that remain use or require air conditioning in their production processes.

With all load growth coming from residential and commercial customers, and the remaining industrial class becoming more weather-sensitive, peak load has grown faster than energy over the last ten years, load factor has declined and the total peak has become more weather-sensitive. In addition, National Grid's electric efficiency programs have slowed energy growth more than peak growth. This is shown on Chart 5 which presents historical and forecast electric efficiency savings.

Also contributing to rapid peak growth over the last ten years were increases in residential air conditioning saturation. Chart 6 shows that residential air conditioning saturation rose from 56% in 1994 to 78% in 2007. Central air conditioning saturation increased from 10% to 27% as much of the new construction that occurred during the housing boom in the first half of the decade included larger single family homes with central air conditioning.

A great deal of this new residential construction took place in southeastern Massachusetts. The three fastest growing PSA's in the system -- Uxbridge, Marlboro, and Attleboro – are in this area. Towns in these PSA's are located along the southern portion of Route I-495 where house prices are lower and there is ready access to both major highways and commuter rail service to Boston. As home prices became unaffordable in the Boston suburbs during the 2001-2005 housing boom, residential development exploded along I-495 in southeastern Massachusetts. Here people could buy large, new single family construction for the same price or less than smaller, older homes in the Boston area.

Lower home prices and access to major highways also drove growth in the system's other fast growing PSA's during the housing boom. These include the Webster PSA in Massachusetts which serves towns benefiting from the expansion of Route 146 and Route 20. The Route 146 expansion, which connects to I-395 in the south and I-290/I-190 in the north, essentially created a third outer-belt around Boston.

Another fast growing PSA was Palmer in western Massachusetts. This PSA serves more affordable towns located near the western portions of I-90 and Route 20 that are within commuting distance to the eastern Massachusetts job market. Likewise, in Rhode Island, the Western Narragansett PSA grew rapidly during the housing boom as lower home prices and quality of life attracted home buyers commuting to Providence and Boston from Route I-95 and the commuter rail system.

With the collapse of the housing market after 2005, and the subsequent regional economic slowdown and recession, both peak demand and energy consumption have fallen. However, declines in energy use have been greater than peak demand on a weather-normalized basis. Declines have been sharpest in the industrial sector especially in 2009, which turned out to be the worst economic downturn in decades. Industrial energy consumption fell 7.7% in 2009 and averaged a drop of 4.6% per year from 2005 to 2009. By contrast residential use fell only 0.3% per year during the same period and commercial use managed a slight increase. Overall, total mWh energy consumption fell 0.7% per year on a weather-normalized basis from 2005 to 2009 while peak demand showed no decline on the same basis.

Forecasted Peak Growth

Forecasted peak growth is based on economic projections provided by Moody's Economy.com (January 2010 release), the assumption of extreme weather conditions and projections of demand-side management (DSM) savings on peak provided by National Grid's Energy Efficiency Department.

Moody's economic forecast for the New England PSAs is summarized on Chart 7 below. Moody's assumes that the US recession ended in 2009 but that both US and regional employment will not begin to grow again until mid-2010. Chart 7 shows that regional employment is expected to fall 0.8% overall in 2010 following a 3.2% decrease in 2009. Regional employment growth accelerates to 1.1% in 2011 and shows a fairly sharp rebound in 2012 and 2013 with growth rates above 2.0% as Moody's projected recovery picks up steam. By 2013, regional employment is expected to surpass its historical high achieved in 2001. However, after 2014, regional employment growth settles into a long-term trend of only 0.1% per year. Regional employment, along with the number of households, is a key driver to the PSA forecast.

For planning purposes, the forecast in Chart 1 assumes extreme summer weather conditions that have only a 5% probability of occurring. The 2010 growth rate of 7.7% for the New England system peak therefore reflects a weather adjustment from actual 2009 conditions to extreme weather conditions assumed for 2010. Also contributing slightly to peak growth in 2010 are assumptions about National Grid's DSM programs. Although National Grid is expanding its electric efficiency initiatives in 2010-2012, this is not enough to prevent a slight decline in total DSM savings on peak in 2010 as existing efficiency programs reach the end of their product lifetimes.

For the ten year forecast period, from 2009-2019, the New England system peak is expected to grow 1.2% per year on a weather-adjusted basis, just slightly slower than actual, weather-adjusted growth experienced over the last ten years, from 1999 to 2009. DSM is expected to reduce growth by about 0.1% per year over this period.

Distribution Company Overview

The chart below compares historical and forecasted summer peak demand growth for the four distribution companies:

Compound Annual Growth in Summer Peak Demand with DSM Last Ten Years versus Next Ten Years			
	Last Ten Years (1999 – 2009)		**Next Ten Years (2009 – 2019)**
	Actual	**Weather-Adjusted**	**Weather-Adjusted**
Massachusetts Electric	1.1%	1.4%	1.0%
Nantucket Electric	2.5%	2.3%	1.7%
Granite State Electric	3.0%	3.5%	1.9%
Narragansett Electric	1.0%	1.5%	1.5%
New England System	1.4%	1.5%	1.2%

Massachusetts Electric

Massachusetts Electric accounts for 70% of the New England system peak and thus tends to determine the pattern of growth for the system. The same factors behind system demand growth have been evident for Massachusetts Electric, including healthy residential and commercial growth, decreasing industrial load, increasing air conditioning saturation and declining load factor. From 1999-2009, the Massachusetts Electric peak demand increased 1.4% per year on a weather-adjusted basis. For the ten-year forecast period from 2009-2019, Massachusetts Electric peak demand is expected to increase 1.0% per year. Like the rest of the system, growth in Massachusetts Electric peak demand slowed during the housing correction and fell during the 2009 recession.

Nantucket Electric

Nantucket Electric accounts for only 0.5% of the New England system peak but it one of the fastest growing areas in the New England distribution system. Compared to the system peak growth rate of 1.5% per year, Nantucket Electric peak demand grew 2.3% annually over the last ten years. This was the result of extraordinary population growth on the island and a housing boom that pushed the average home price to over $1 million. New homes constructed on the island have been larger than the existing housing stock and contribute to higher energy use per customer. Air conditioning saturation also increased. However, the forecast calls for less growth over the next ten years, 1.7% annually. Like the other New England distribution companies, Nantucket is a summer peaking system. This has been the case since 1990.

Granite State Electric

The Granite State Electric peak accounts for 2.8% of the New England system peak. Like the New Hampshire economy, Granite State's peak demand growth has been strong over the last ten years, increasing 3.5% per year from 1999-2009. For the 2009-2019 ten-year forecast period, Granite State's peak is expected to increase 1.9% per year. Although Granite State's service territory is in northern New England, the company remains solidly summer peaking with the current summer peak 24% higher than the winter peak.

Narragansett Electric

Narragansett Electric, the second largest Distribution Company in the New England system, accounts for 27% of the system peak and serves all but a small portion of the state of Rhode Island. Narragansett's peak demand grew 1.5% per year on average over the last ten years on a weather-adjusted basis. Like Massachusetts Electric and the system, Narragansett has seen strong residential and commercial growth, negative industrial growth, increased residential air conditioning saturation and a decline in load factor.

Over the next ten years, the Narragansett peak is expected to increase 1.5% annually. As was the case over the last ten years, growth is expected to be driven by Narragansett's Western PSA.

Chart 1
Summer Peak Demands (MW)

New England Distribution System and Company Summer Peak Demands *
Actual History and Forecast with Extreme Weather and DSM

Year	Mo	New England System Peak	Growth Rate	Massachusetts Electric Company	Growth Rate	Nantucket Electric Company	Growth Rate	Granite State Electric	Growth Rate	Narragansett Electric Company	Growth Rate
====	==	==========	======	==========	======	==========	======	==========	======	==========	======
1999	7	5,583.416	4.3%	3,944.641	4.7%	27.150	6.7%	138.019	-4.6%	1,510.600	6.5%
2000	8	5,460.950	-2.2%	3,850.805	-2.4%	28.440	4.8%	142.612	3.3%	1,475.400	-2.3%
2001	8	6,206.009	13.6%	4,382.281	13.8%	31.000	9.0%	162.852	14.2%	1,663.324	12.7%
2002	8	6,429.525	3.6%	4,549.181	3.8%	32.410	4.5%	174.215	7.0%	1,687.100	1.4%
2003	6	6,222.069	-3.2%	4,378.888	-3.7%	33.260	2.6%	169.611	-2.6%	1,555.950	-7.8%
2004	8	6,088.453	-2.1%	4,280.514	-2.2%	33.117	-0.4%	169.044	-0.3%	1,601.714	2.9%
2005	7	6,865.555	12.8%	4,848.824	13.3%	36.491	10.2%	184.156	8.9%	1,787.842	11.6%
2006	**8**	**7,261.011**	**5.8%**	**5,067.485**	**4.5%**	**38.394**	**5.2%**	**187.936**	**2.1%**	**1,931.975**	**8.1%**
2007	8	6,610.513	-9.0%	4,654.134	-8.2%	35.415	-7.8%	179.073	-4.7%	1,760.051	-8.9%
2008	6	6,719.098	1.6%	4,685.557	0.7%	34.562	-2.4%	185.711	3.7%	1,781.256	1.2%
2009	8	6,388.363	-4.9%	4,399.660	-6.1%	34.629	0.2%	185.940	0.1%	1,675.809	-5.9%
Forecast											
2010	8	6,883.210	7.7%	4,876.154	10.8%	38.789	12.0%	189.472	1.9%	1,778.796	6.1%
2011	8	6,970.575	1.3%	4,932.630	1.2%	39.583	2.0%	194.442	2.6%	1,803.921	1.4%
2012	8	7,103.725	1.9%	5,016.068	1.7%	40.738	2.9%	200.263	3.0%	1,846.655	2.4%
2013	8	7,247.437	2.0%	5,104.730	1.8%	42.061	3.2%	205.314	2.5%	1,895.332	2.6%
2014	8	7,341.168	1.3%	5,159.123	1.1%	42.799	1.8%	208.812	1.7%	1,930.434	1.9%
2015	8	7,413.140	1.0%	5,197.835	0.8%	43.326	1.2%	211.963	1.5%	1,960.015	1.5%
2016	8	7,479.698	0.9%	5,233.198	0.7%	43.857	1.2%	214.980	1.4%	1,987.663	1.4%
2017	8	7,545.569	0.9%	5,269.248	0.7%	44.406	1.3%	218.102	1.5%	2,013.813	1.3%
2018	8	7,606.854	0.8%	5,302.248	0.6%	44.951	1.2%	221.239	1.4%	2,038.416	1.2%
2019	8	7,666.293	0.8%	5,334.683	0.6%	45.485	1.2%	224.367	1.4%	2,061.758	1.1%
2020	8	7,726.726	0.8%	5,367.784	0.6%	46.022	1.2%	227.536	1.4%	2,085.384	1.1%
2021	8	7,787.530	0.8%	5,401.391	0.6%	46.557	1.2%	230.702	1.4%	2,108.880	1.1%
2022	8	7,846.910	0.8%	5,433.703	0.6%	47.074	1.1%	233.882	1.4%	2,132.250	1.1%
2023	8	7,904.582	0.7%	5,464.272	0.6%	47.579	1.1%	237.073	1.4%	2,155.657	1.1%
2024	8	7,962.547	0.7%	5,495.345	0.6%	48.080	1.1%	240.213	1.3%	2,178.909	1.1%
Compound Annual Growth											
==================											
1999-2009 Ten Year			1.4%		1.1%		2.5%		3.0%		1.0%
2004-2009 Five Year			1.0%		0.6%		0.9%		1.9%		0.9%
Forecast											
2009-2014 Five Year			2.8%		3.2%		4.3%		2.3%		2.9%
2009-2019 Ten Year			1.8%		1.9%		2.8%		1.9%		2.1%
2009-2024 Fifteen Year			1.5%		1.5%		2.2%		1.7%		1.8%

* Company demands are sum of PSA's.

Chart 2
Winter Peak Demands (MW)

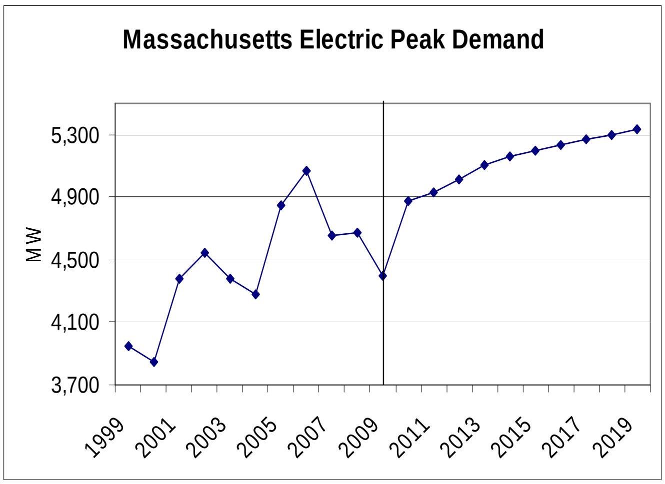
New England Distribution System and Company Winter Peak Demands *
Actual History and Forecast with Extreme Weather and DSM

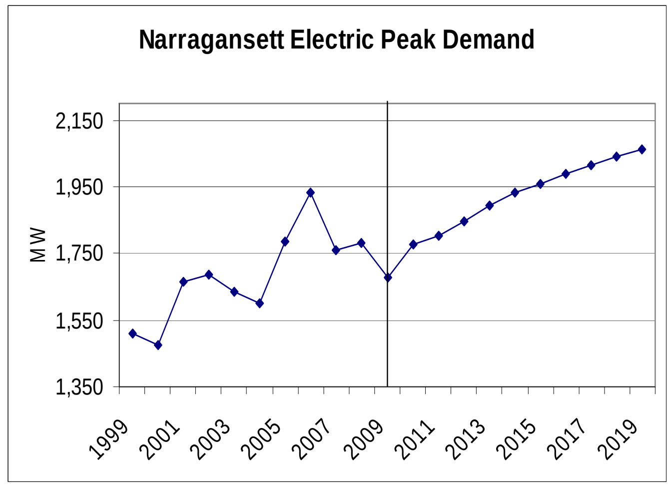
Year	Mo	New England System Peak	Growth Rate	Massachusetts Electric Company	Growth Rate	Nantucket Electric Company	Growth Rate	Granite State Electric	Growth Rate	Narragansett Electric Company	Growth Rate
1998	3	4,469.936		3,194.286		19.950		120.800		1,134.900	
1999	1	4,905.154	9.7%	3,565.944	11.6%	21.210	6.3%	130.200	7.8%	1,187.800	4.7%
2000	1	5,192.607	5.9%	3,769.272	5.7%	27.579	30.0%	137.756	5.8%	1,258.000	5.9%
2001	12	4,930.484	-5.0%	3,552.213	-5.8%	25.900	-6.1%	126.284	-8.3%	1,226.087	-2.5%
2002	12	4,835.812	-1.9%	3,479.799	-2.0%	20.510	-20.8%	132.303	4.8%	1,203.200	-1.9%
2003	1	5,265.058	8.9%	3,823.090	9.9%	28.060	36.8%	139.795	5.7%	1,274.113	5.9%
2004	**1**	**5,671.973**	**7.7%**	**4,084.867**	**6.8%**	**31.727**	**13.1%**	**146.262**	**4.6%**	**1,368.861**	**7.4%**
2004	12	5,572.461	-1.8%	4,001.215	-2.0%	27.893	-12.1%	148.709	1.7%	1,367.036	-0.1%
2005	12	5,311.743	-4.7%	3,807.297	-4.8%	26.388	-5.4%	147.388	-0.9%	1,301.943	-4.8%
2007	2	5,330.261	0.3%	3,806.781	0.0%	27.072	2.6%	142.565	-3.3%	1,308.178	0.5%
2008	1	5,384.674	1.0%	3,820.344	0.4%	25.780	-4.8%	146.260	2.6%	1,331.634	1.8%
2008	12	5,157.040	-4.2%	3,650.948	-4.4%	24.640	-4.4%	126.865	-13.3%	1,271.954	-4.5%
Forecast											
2010	1	5,319.624	3.2%	3,850.917	5.5%	29.468	19.6%	141.996	11.9%	1,297.243	2.0%
2011	1	5,379.868	1.1%	3,905.346	1.4%	30.329	2.9%	144.272	1.6%	1,299.921	0.2%
2012	1	5,469.663	1.7%	3,967.713	1.6%	31.545	4.0%	148.269	2.8%	1,322.136	1.7%
2013	1	5,560.833	1.7%	4,026.668	1.5%	32.931	4.4%	152.183	2.6%	1,349.051	2.0%
2014	1	5,652.839	1.7%	4,090.714	1.6%	34.182	3.8%	154.517	1.5%	1,373.426	1.8%
2015	1	5,696.300	0.8%	4,118.788	0.7%	34.900	2.1%	156.059	1.0%	1,386.553	1.0%
2016	1	5,727.476	0.5%	4,138.608	0.5%	35.546	1.9%	157.376	0.8%	1,395.946	0.7%
2017	1	5,757.196	0.5%	4,157.956	0.5%	36.213	1.9%	158.681	0.8%	1,404.346	0.6%
2018	1	5,783.938	0.5%	4,176.251	0.4%	36.877	1.8%	160.073	0.9%	1,410.737	0.5%
2019	1	5,807.114	0.4%	4,192.152	0.4%	37.551	1.8%	161.451	0.9%	1,415.960	0.4%
2020	1	5,829.717	0.4%	4,208.224	0.4%	38.211	1.8%	162.848	0.9%	1,420.434	0.3%
2021	1	5,853.546	0.4%	4,225.130	0.4%	38.878	1.7%	164.271	0.9%	1,425.267	0.3%
2022	1	5,877.194	0.4%	4,241.882	0.4%	39.536	1.7%	165.688	0.9%	1,430.088	0.3%
2023	1	5,898.425	0.4%	4,256.689	0.3%	40.173	1.6%	167.135	0.9%	1,434.428	0.3%
2024	1	5,919.269	0.4%	4,270.806	0.3%	40.805	1.6%	168.547	0.8%	1,439.111	0.3%

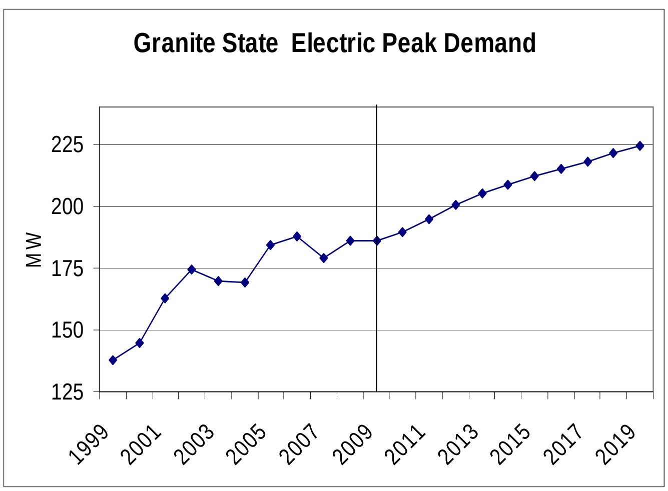
Compound Annual Growth	New England System	Massachusetts Electric	Nantucket Electric	Granite State Electric	Narragansett Electric
1999-2009 Ten Year	0.5%	0.2%	1.5%	-0.3%	0.7%
2004-2009 Five Year	-1.9%	-2.2%	-4.9%	-2.8%	-1.5%
Forecast					
2009-2014 Five Year	2.0%	2.4%	7.2%	4.2%	1.7%
2009-2019 Ten Year	1.2%	1.4%	4.3%	2.4%	1.1%
2009-2024 Fifteen Year	0.9%	1.1%	3.4%	1.9%	0.8%

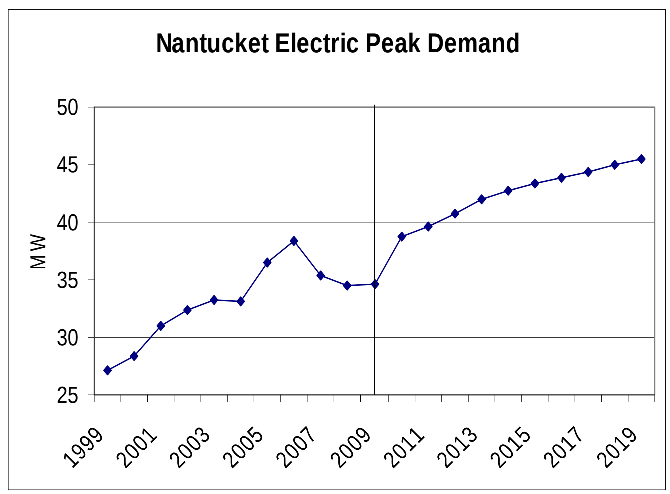
* Company demands are sum of PSA's.

Chart 3
Actual and Forecast Summer Peak Demand
By
Distribution Company *



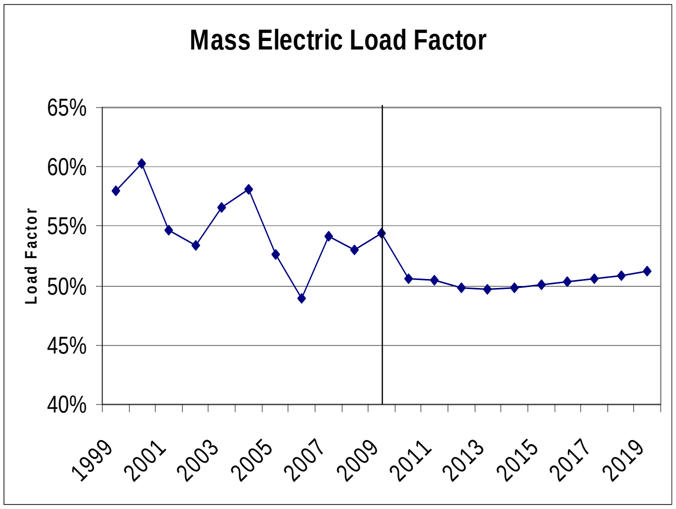


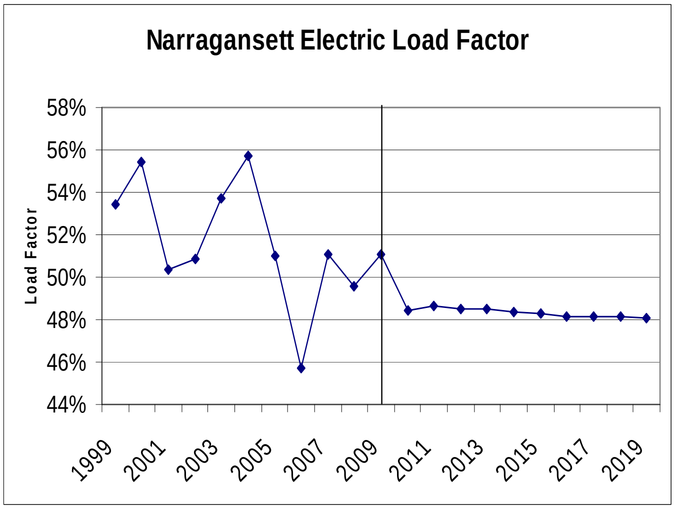


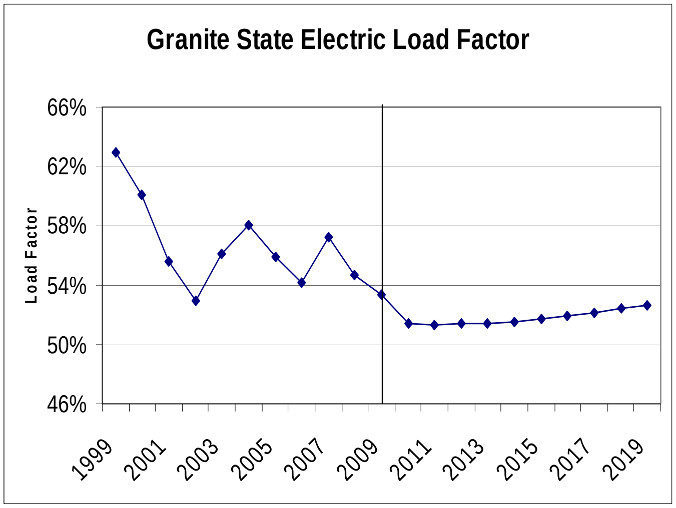


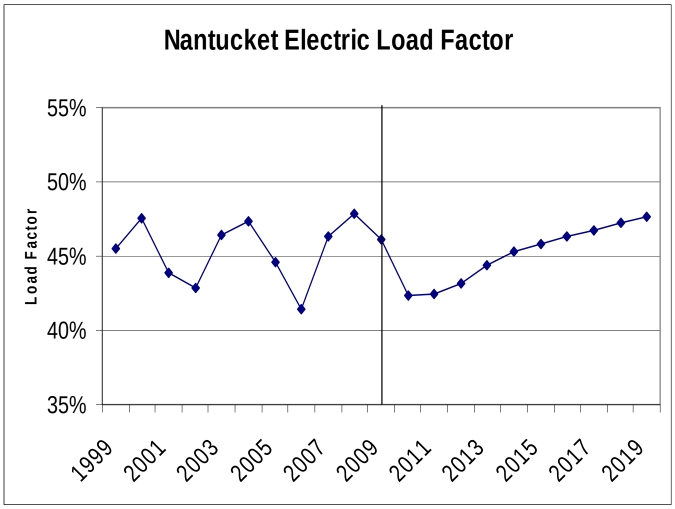
*** Forecast with extreme weather and DSM**

Chart 4
Actual and Forecast Load Factor *
By
Distribution Company









- **MWh Distribution Deliveries per hour divided by peak MW demand.**

Chart 5
Actual and Forecast Electric Efficiency Savings

Massachusetts

Year	Total DSM on Energy (MWh)	Percent of Energy	Total DSM on Peak (MW)	Percent of Peak
1999	1,265,228	6.3%	260	6.6%
2000	1,363,046	6.7%	275	7.2%
2001	1,494,585	7.1%	296	6.7%
2002	1,612,608	7.6%	314	6.9%
2003	1,689,124	7.8%	326	7.5%
2004	1,820,645	8.4%	341	8.0%
2005	1,995,938	8.9%	356	7.4%
2006	2,131,017	9.8%	366	7.2%
2007	2,274,589	10.3%	379	8.1%
2008	2,407,703	11.1%	393	8.4%
2009	2,600,026	12.4%	427	9.7%
		Forecast		
2010	2,512,061	11.7%	418	8.6%
2011	2,648,580	12.1%	432	8.8%
2012	2,925,303	13.2%	469	9.4%
2013	3,011,415	13.3%	483	9.5%
2014	2,821,244	12.3%	457	8.9%
2015	2,627,806	11.3%	429	8.3%
2016	2,428,071	10.3%	403	7.7%
2017	2,310,575	9.7%	377	7.2%
2018	2,106,863	8.8%	340	6.4%
2019	1,801,649	7.4%	289	5.4%

Rhode Island

Year	Total DSM on Energy (MWh)	Percent of Energy	Total DSM on Peak (MW)	Percent of Peak
1999	322,567	4.6%	75	5.0%
2000	341,993	4.8%	76	5.1%
2001	392,584	5.3%	83	5.0%
2002	442,557	5.9%	91	5.4%
2003	480,714	6.2%	97	6.0%
2004	519,871	6.6%	105	6.5%
2005	568,507	7.1%	113	6.3%
2006	623,330	8.1%	121	6.3%
2007	674,152	8.6%	129	7.3%
2008	715,895	9.3%	136	7.6%
2009	798,504	10.7%	154	9.2%
		Forecast		
2010	778,831	10.4%	152	8.5%
2011	815,992	10.6%	159	8.8%
2012	862,693	10.9%	164	8.9%
2013	857,013	10.6%	164	8.6%
2014	810,893	9.8%	156	8.1%
2015	776,296	9.3%	149	7.6%
2016	735,462	8.7%	142	7.1%
2017	680,762	8.0%	132	6.6%
2018	615,817	7.1%	120	5.9%
2019	520,331	6.0%	102	5.0%

New Hampshire

Year	Total DSM on Energy (MWh)	Percent of Energy	Total DSM on Peak (MW)	Percent of Peak
1999	49,513	6.5%	12	8.4%
2000	52,035	6.8%	12	8.2%
2001	55,325	7.0%	13	7.7%
2002	60,195	7.4%	14	7.9%
2003	64,476	7.7%	15	8.8%
2004	67,354	7.8%	15	9.1%
2005	70,298	7.8%	16	8.6%
2006	71,679	8.0%	16	8.5%
2007	72,086	8.0%	16	8.8%
2008	72,893	8.2%	16	8.5%
2009	78,330	9.0%	16	8.8%
		Forecast		
2010	75,975	8.9%	16	8.3%
2011	72,308	8.3%	15	7.6%
2012	69,574	7.8%	14	6.9%
2013	67,178	7.4%	13	6.4%
2014	63,724	6.8%	12	5.8%
2015	60,448	6.4%	11	5.2%
2016	56,518	5.8%	10	4.8%
2017	50,615	5.1%	9	4.2%
2018	43,833	4.4%	8	3.5%
2019	37,101	3.6%	7	2.9%

Notes

o Total DSM consists of savings from existing electric efficiency programs and savings from programs planned for 2010 through 2012

o Total savings decrease after 2013 as existing program lifetimes expire

o The PSA forecast assumes no reduction in total peak savings after 2013

o DSM adjustment to the PSA forecast is equal to peak savings in forecast year minus peak savings in 2009 ("Incremental DSM")

o Peak savings from passive programs only

Source: Energy Efficiency Dept.

Chart 6
Residential Air Conditioning Saturation

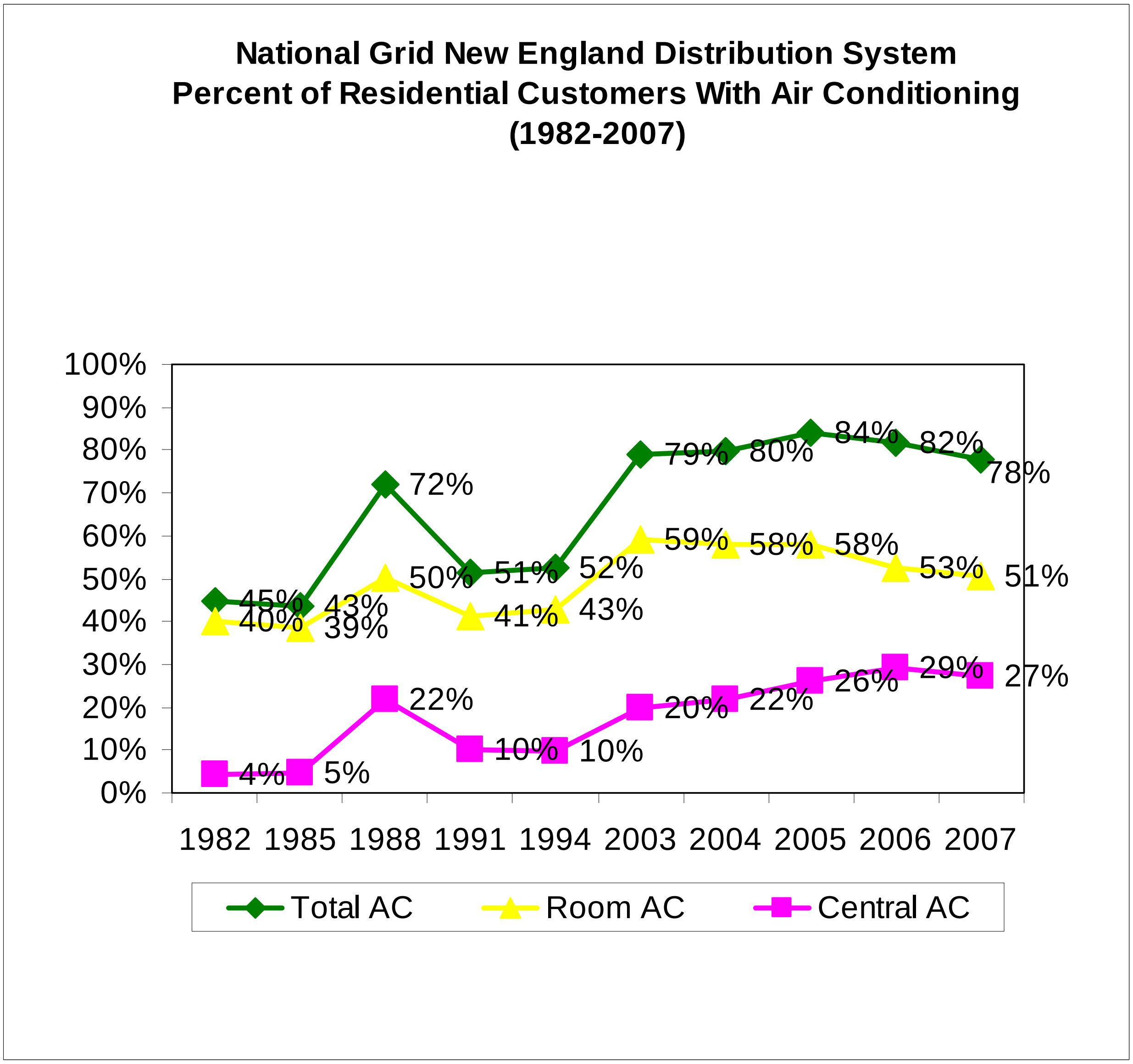


Chart 7

2010 Power Supply Area Forecast
Moody's Economy.Com Economic Outlook
(Sum of Counties Used in PSA Forecasting Models)

Year	Total Employment	Growth Rate	Real Disposable Income ($mill 2000)	Growth Rate	Population	Growth Rate	Number of Households	Growth Rate
====	=========	=====	=======	=====	=======	=====	=======	=====
1999	3,017,318		$2,657,935		6,370,489		2,419,887	
2000	3,100,163	2.7%	$2,862,822	7.7%	6,421,470	0.8%	2,447,178	1.1%
2001	3,114,948	0.5%	$2,889,519	0.9%	6,459,035	0.6%	2,461,294	0.6%
2002	3,050,972	-2.1%	$2,871,332	-0.6%	6,485,888	0.4%	2,471,411	0.4%
2003	3,009,486	-1.4%	$2,858,824	-0.4%	6,498,062	0.2%	2,476,008	0.2%
2004	3,014,404	0.2%	$2,909,533	1.8%	6,498,248	0.0%	2,476,112	0.0%
2005	3,030,533	0.5%	$2,926,102	0.6%	6,493,502	-0.1%	2,474,271	-0.1%
2006	3,058,576	0.9%	$3,055,789	4.4%	6,499,802	0.1%	2,476,664	0.1%
2007	3,080,856	0.7%	$3,137,003	2.7%	6,509,916	0.2%	2,480,362	0.1%
2008	3,074,357	-0.2%	$3,116,080	-0.7%	6,535,628	0.4%	2,490,160	0.4%
2009	2,975,300	-3.2%	$3,120,451	0.1%	6,552,296	0.3%	2,499,083	0.4%
2010	2,951,523	-0.8%	$3,165,340	1.4%	6,570,188	0.3%	2,508,882	0.4%
2011	2,985,433	1.1%	$3,224,663	1.9%	6,589,854	0.3%	2,520,715	0.5%
2012	3,062,734	2.6%	$3,314,264	2.8%	6,607,703	0.3%	2,541,358	0.8%
2013	3,131,313	2.2%	$3,435,766	3.7%	6,625,529	0.3%	2,560,716	0.8%
2014	3,158,649	0.9%	$3,513,992	2.3%	6,642,961	0.3%	2,576,955	0.6%
2015	3,166,242	0.2%	$3,563,679	1.4%	6,659,145	0.2%	2,591,978	0.6%
2016	3,169,982	0.1%	$3,614,065	1.4%	6,673,339	0.2%	2,604,499	0.5%
2017	3,174,113	0.1%	$3,666,376	1.4%	6,687,908	0.2%	2,615,442	0.4%
2018	3,176,428	0.1%	$3,715,390	1.3%	6,703,245	0.2%	2,625,649	0.4%
2019	3,178,260	0.1%	$3,763,536	1.3%	6,719,084	0.2%	2,635,165	0.4%
2020	3,181,476	0.1%	$3,811,349	1.3%	6,735,284	0.2%	2,643,808	0.3%
2021	3,186,192	0.1%	$3,858,629	1.2%	6,751,447	0.2%	2,651,252	0.3%
2022	3,190,998	0.2%	$3,906,627	1.2%	6,767,614	0.2%	2,657,611	0.2%
2023	3,195,401	0.1%	$3,957,358	1.3%	6,783,551	0.2%	2,662,427	0.2%
2024	3,200,345	0.2%	$4,010,054	1.3%	6,799,187	0.2%	2,666,452	0.2%

Compound Annual Growth:

Ten-Year	1999-2009	-0.1%		1.6%		0.3%		0.3%
Five-Year	2004-2009	-0.3%		1.4%		0.2%		0.2%
Five-Year	2009-2014	1.2%		2.4%		0.3%		0.6%
Ten-Year	2009-2019	0.7%		1.9%		0.3%		0.5%
Fifteen-Year	2009-2024	0.5%		1.7%		0.2%		0.4%

Source: Moody's Economy.com, January 2010 release.

Overview of Forecast Process and Results

Summary

National Grid's peak demand forecasting process entails developing summer and winter peak demand forecasts for distribution planning areas known as Power Supply Areas (PSAs). This is a "bottom-up" approach in which separate econometric forecasts are developed for 26 PSA's that make up the New England service area. The econometric models predict monthly PSA peak demands as a function of county-level economic variables and peak-day weather conditions. In addition, PSA forecast results are allocated to the 230 towns and all of the substations and feeders that make up the New England distribution system. The allocation of the PSA forecast to towns, substations and feeders is based on regression models that predict trends in town MWh growth. Chart 8 below shows the 26 PSAs and the towns served by each.

The PSA forecasts at time of the Distribution Company peak are aggregated to yield peak forecasts for each Distribution Company as well as its various Districts and Divisions. PSA peak demand is forecasted through the year 2024.

Forecasts of a PSA's own peak – that is, the highest demand reached within a given PSA – are calculated by multiplying forecasted PSA peak at time of the company peak by coincidence factors. These coincidence factors are calculated as the historical ratio of a PSA's maximum peak demand to its peak at time of the company peak.

To capture the uncertainty associated with peak-day weather conditions, peak demands are forecasted under both normal weather conditions (weather that has a 50% chance of occurring) and extreme weather conditions (weather that has only a 5% chance of occurring). The extreme weather peak forecast scenario represents an upper bound that can be expected for a given set of economic conditions.

Forecast Methodology

Regression models are used to develop baseline peak forecasts for each PSA. There is a separate model for each PSA. The models relate a PSA's historical coincident peak, that is, demand at time of the distribution Company peak, to observed peak-day weather conditions and county-level economic variables. These weather and economic variables are described in more detail below. Using either normal or extreme weather conditions, and economic forecasts from Moody's Economy.com, the models predict future PSA coincident peaks for each year of the forecast horizon. Incremental demand-side management (DSM) impacts are subtracted from the model produced. Large incremental load additions, *spot loads*, may be added to the baseline regression forecast. Spot loads are defined as new load additions (and reductions) that are potentially 1 MW or greater and can be attributed to specific customers. These are loads, if any, are collected by the Planner Engineers at the time of their studies and used to adjust the PSA forecast results.

The regression models are based on twelve years of monthly historical data, from 1997:m1 to 2009:m12. Projected summer and winter demands are taken from the monthly results as the highest monthly demand predicted within these seasons. Regression results are shown in Appendix I.

Chart 8
National Grid New England Service Area
by
Power Supply Area (PSA) and Town

MASSACHUSETTS

Gardner PSA
- Gardner
- Hubbardston
- Westminster
- Winchendon

Leominster PSA
- Ayer
- Berlin
- Bolton
- Clinton
- Dunstable
- Groton
- Harvard
- Lancaster
- Leominster
- Pepperell
- Shirley

Webster PSA
- Charlton
- Dudley
- Grafton
- Millbury
- Oxford
- Southbridge
- Spencer
- Sturbridge
- Sutton
- Webster

Worcester PSA
- Auburn
- Brookfield
- E. Brookfield
- Leicester
- N. Brookfield
- New Braintree
- Oakham
- Rutland
- W. Brookfield
- Worcester

Wyman PSA

Adams PSA
- Adams
- Charlemont
- Cheshire
- Clarksburg
- Florida-Drury
- Hancock
- Hawley
- Heath
- Monroe
- North Adams
- Rowe
- Williamstown

Athol PSA
- Athol
- Barre
- Erving
- New Salem
- Orange
- Petersham
- Phillipston
- Royalston
- Shutesbury
- Warwick
- Wendall

Northampton PSA
- Goshen
- Northampton
- Williamsburg

Palmer PSA
- Belchertown
- Brimfield
- East Longmeadow
- Granby
- Hampden
- Hardwick
- Holland
- Monson
- Palmer-3Rivers
- Wales
- Ware
- Warren
- Wilbraham

South Berkshire PSA
- Alford
- Egremont
- Gt. Barrington
- Lenox
- Monterey
- Mt.Washington
- New Marlboro
- Sheffield
- Stockbridge
- W.Stockbridge

Merrimcack Valley PSA
- Amesbury
- Andover
- Billerica
- Boxford
- Chelmsford
- Dracut
- Haverhill
- Lawrence
- Lowell
- Methuen
- Newbury
- Newburyport
- No. Andover
- Salisbury
- Tewksbury
- Tyngsboro
- West Newbury
- Westford

Essex PSA
- Beverly
- Essex
- Gloucester
- Hamilton
- Manchester
- Rockport
- Salem
- Topsfield
- Wenham

Suburban PSA
- Everett
- Lynn
- Malden
- Medford
- Melrose
- Nahant
- Revere
- Saugus
- Swampscott
- Winthrop

Attleboro PSA
- Attleboro
- Bellingham
- Foxboro
- Franklin
- Norton
- Plainville
- Rehoboth
- Seekonk
- Wrentham

Fall River PSA
- Dighton
- Fall River
- Somerset
- Swansea
- Westport

Marlboro PSA
- Marlboro
- Northboro
- Southboro
- Westboro

Uxbridge PSA
- Blackstone
- Douglas
- Hopedale
- Mendon
- Milford
- Millville
- Upton
- Uxbridge
- Whitinsville

Brockton PSA
- Abbington
- Avon
- Bridgewater
- Brockton
- Cohasset
- East Bridgewater
- Easton
- Halifax
- Hanover
- Hanson
- Norwell
- Pembroke
- Rockland
- Scituate
- Sharon
- Stoughton
- West Bridgewater
- Whitman

Weymouth PSA
- Hingham
- Holbrook
- Quincy
- Randolph
- Weymouth

Nantucket PSA
- Nantucket

RHODE ISLAND

Blackstone Valley PSA
- Burrillville
- Central Falls
- Cumberland
- Lincoln
- North Smithfield
- Pawtucket
- Woonsocket

Newport PSA
- Middletown
- Newport
- Portsmouth

Providence PSA
- Barrington
- Bristol
- East Providence
- North Providence
- Providence
- Warren

Western Narragansett PSA
- Charlestown
- Coventry
- Cranston
- East Greenwich
- Exeter
- Foster
- Glouster
- Hopkington
- Jamestown
- Johnston
- Little Compton
- Narragansett
- North Kingstown
- Richmond
- Scituate
- Smithfield
- South Kingstown
- Tiverton
- Warwick
- West Greenwich
- West Warwick
- Westerly

NEW HAMPSHIRE

Eastern Granite State PSA
- Derry
- Pelham
- Salem
- Windham

Western Granite State PSA
- Acworth
- Alstead
- Bath
- Canaan
- Charlestown
- Cornish
- Enfield
- Grafton
- Hanover
- Langdon
- Lebanon
- Marlow
- Monroe
- Orange
- Plainfield
- Surry
- Walpole

Regional Economic Drivers

Moody's Economy.com provides historical and forecasted economic conditions at the county level. Chart 7 above summarizes the county-level historical and forecast values of these economic variables aggregated to National Grid's New England service territory. Economy.com's *county-level* forecasts are used in the PSA forecasting models. Each PSA is assigned to a county based on the PSA's location. Chart 9 below shows the assignment of PSA's to counties. While not a perfect with defined PSAs, this process allows for a better correlation of PSA peak demand growth and underlying area economic activity than does the use of state or national economic forecasts alone. For most models, county-level employment and number of households are combined, with employment weighted 60% and households weighted 40%, to create a single monthly economic index variable, EconIndex (2005=1.00).

Chart 9

PSA County Assignments

PSA	County	PSA	County
Gardner	Worcester	Attleboro	Bristol
Leominster	Worcester	Fall River	Middlesex
Webster	Worcester	Marlboro	Bristol
Worcester	Worcester	Uxbridge	Worcester
Adams	Berkshire	Brockton	Plymouth
Athol	Worcester	Weymouth	Norfolk
Northampton	Hampshire	Blackstone Valley	Providence
Palmer	Hampden	Newport	Newport
South Berkshire	Berkshire	Providence	Providence
Merrimack	Essex	Western RI	Providence
Essex	Essex	Eastern Geco	Rockingham
Suburban	Middlesex	Western Geco	Grafton

PSA Load Data

PSA load data were provided by National Grid's distribution planning engineers. Data include monthly peaks at time of the company peak and the PSA coincident peaks (each PSA's highest peak demand). This data is collected from remote access pulse recorders (RAPRs) located at tie-line and substation metering points that define the PSAs. The historical PSA loads collected for the seasonal peaks are shown along with their forecasted values in Appendices A-H.

Peak Day Weather Data

Peak day weather data were collected from the four major weather stations located within National Grid's New England service territory. These stations – Boston, Worcester, Providence and Concord, New Hampshire – are first-order weather stations for which the quality of data is high. The following peak-day temperature concepts were collected for each weather station:

- Maximum temperature on the day of the peak
- Minimum temperature on the day of the peak
- Maximum temperature for the day prior to the peak

- Minimum temperature for the day prior to the peak
- Maximum temperature two-days prior to the peak
- Minimum temperature two-days prior to the peak

These temperature concepts were used to generate the following weather explanatory variables in the model:

MaxCDD65 = (maximum temperature on the day of the peak – 65), or 0 if the maximum temperature is less than or equal to 65;

CumMinCDD = (.7 * minimum temperature on day of the peak - 60) + (.3 * minimum temperature on day prior to the peak - 60), or 0 if minimum temperature is less than or equal to 60;

MaxHDD55 = (55 – maximum temperature on the day of the peak), or 0 if maximum temperature is greater than or equal to 55.

In most models these weather variables are multiplied by a time trend in order to capture increasing sensitivity of load to weather over time. The regression models are estimated using the actual historical values of these weather variables. The estimated regression models are then used to simulate historical and forecasted PSA demand under two weather scenarios, normal weather and extreme weather.

Normal Weather Scenario Forecast

The normal weather scenario PSA demand forecast assumes the same normal peak-producing weather for each year of the forecast. This is the most likely weather scenario as there is a 50% probability that actual weather will be more extreme than normal and a 50% probability that the weather will be less extreme than normal.

The normal weather scenario is shown in Appendix J for each weather station. Normal peak-day weather conditions are calculated from historical peak-day weather covering the period from 1990-2003. A rank and average method is used to derive the peak-day temperature variables. For each year, monthly peak-day temperatures are ranked from the highest to lowest temperature regardless of the month the temperature occurred. The ranked, monthly temperature variables are then averaged across the years to generate twelve monthly normal values for each of the peak-day weather concepts. The normal temperature values are then assigned to a specific month based on the month where that temperature is most likely to occur. For example, the highest maximum temperature value is assigned to July, the next highest to August, and so on until all maximum temperature values are assigned to a month. A similar method is used to assign the normal minimum temperature to specific months. The coldest normal temperature is assigned to January, the next coldest to December, and so on until all months are assigned a minimum temperature.

Extreme Weather Scenario Forecast

An extreme weather scenario PSA demand forecast is generated to capture the peak demand upper bound for a given set of economic conditions. Based on the historical experience, there is only a 5% probability that actual peak-producing weather will be more extreme than in the extreme weather scenario. Such extreme summer weather conditions were experienced in the region in 2002.

Extreme weather conditions are defined as peak-day temperatures that have a 5% probability or less of occurring. The same rank and average method used to calculate normal weather conditions is used to calculate extreme weather conditions. However, instead of taking the average temperatures from the historical period, 95^{th} percentile temperatures are selected instead. Appendix J shows the extreme weather scenario for each weather station.

Demand Side Management

National Grid has been implementing energy efficiency programs in its service area since 1987. Chart 5 above indicates that, as a result of these efforts, Massachusetts Electric and Nantucket Electric reduced summer peak load by an estimated 427 MW in 2009, or 9.7% of total peak. Similarly, Narragansett Electric reduced its summer peak by 154 MW or 9.2%; while Granite State Electric reduced its peak 17 MW or 8.8%.

Chart 5 shows cumulative DSM savings on energy and peak due to National Grid's passive electric efficiency programs. Interruptible loads, direct load control, non-wires alternatives and SMARTGRID savings are not included. Chart 5 shows that total Massachusetts service area DSM savings on peak increased from 6.6% of total peak in 1999 to 9.7% in 2009. This is equivalent to a 5.1% average annual increase in total MW savings on peak, or 17 MW per year.

In order to prevent total DSM savings from falling, National Grid must continually add new programs to replace the savings of existing programs that reach the end of their product lifetimes. In Chart 5, total forecasted DSM savings are the result of existing DSM programs whose product lifetimes extend into the future; and new programs planned for 2010 through 2012. Chart 5 shows that, beginning in 2014, total DSM savings fall because the forecast does not include programs that National Grid may implement beyond those currently planned for 2010 through 2012.

DSM Adjustment to the Forecast

Actual DSM savings achieved through 2009 are fully incorporated in the historical load data used to estimate the PSA load forecasting models. These savings carry forward into the forecast. Incremental DSM savings beyond the amounts achieved through 2009 were subtracted from the PSA forecast results. These incremental DSM adjustments were calculated as the difference between total DSM savings in the forecast year minus total DSM savings in 2009. The incremental DSM adjustments to forecasted summer and winter peak demands are shown in Appendices A-H. In these reports, total service area incremental DSM was allocated to the PSA's based on load.

Incremental DSM impacts can be either positive or negative. For example, Chart 5 shows that even with the new programs National Grid is planning for 2010, total Massachusetts DSM savings fall by 9 MW from 2009 to 2010. Thus, the incremental DSM adjustment adds to load in 2010. By 2011, total DSM savings are 5 MW higher than in 2009, so the incremental DSM adjustment reduces the PSA load forecast. Because of the new programs planned for 2010 through 2012, total DSM savings continue to rise through 2013 and the incremental DSM adjustment reaches a high of 56 MW in Massachusetts. Incremental DSM is held constant at 2013 levels for the duration of the forecast horizon, that is, from 2014-2024. This assumes that

National Grid will implement more programs, beyond those planned for 2010 through 2012, in the future so that total DSM savings do not fall from the 2013 highs shown on Chart 5

Although the incremental DSM adjustments shown in Appendices A-H do not include savings from National Grid's interruptible programs, direct load control, various non-wires alternatives, SMARTGRID or other active programs, forecast scenarios for these can be used t adjust the baseline forecasts with DSM provided in Appendices A-H.

Spot Load Adjustments

Projected spot loads are added to the base line statistical forecast. Regression models do not adequately capture large jumps in incremental loads. Spot load adjustments represent major load additions (or losses) that are not likely to be captured in an econometric trend model. Only new load additions (and reductions) that are potentially 1 MW or greater, and can be attributed to specific customers, are considered as spot loads. However, the actual adjustment to the model results is equal to the potential load change times the expected probability of the load actually coming on line. Since this probability is often less than 100%, spot load adjustments can be less than 1 MW.

Spot load estimates are collected by National Grid's distribution planning engineers at the time that an individual area study is done. Planners provide information on the load potential, the expected probability of the load occurring, and the timing (expected year and month) of the spot load.

Sub Area Forecast

Final PSA demand forecasts are allocated to sub areas, towns, substations, and feeders based on historical trends in town-level MWh growth and the location of the substations and feeders. The methodology is based on town-level MWh delivery data, covering the period 1996-2007, and other company data showing how many customers in each town are served by the various substations and feeders.

Separate regression equations are estimated for each of the 230 towns in National Grid's New England service territory. The regressions relate annual town-level MWh deliveries to a linear time trend and predict town MWh load for each forecast year. For the historical period, a town's MW peak is estimated by multiplying that town's share of total PSA MWh by the actual PSA peak. For the forecast period, each town is allocated a portion of overall forecasted PSA MW growth. The portion of PSA MW growth allocated to a town is determined by that town's share in total PSA MWh growth, as predicted by the sum of the individual town-level regression equations. This is done for the first five years of the PSA forecast. After five years, all town-level peak demand growth rates converge to the overall PSA demand growth rate. The convergence period is three years.

This process yields town-level peak demand forecasts that add up to the overall PSA peak demand forecast yet grow at different rates, reflecting different trends in recent, historical town-level MWh growth. Town growth rates can also be allocated to substations and feeders based on the share of customers in each town served by a given substation or feeder. The allocation process can be applied to forecasted PSA demands coincident with Company peak demand, self-coincident PSA demands, summer demands, winter demands, demands under extreme weather conditions and demands under normal weather conditions. Although the process yields estimated town-level MW demands for each forecast year, the planner uses only the forecasted peak *growth rates* in area planning studies and facility thermal adequacy analyses. That is, the planner applies the appropriate forecasted town growth rates to the actual area loads that he or she collects for the study or analysis.

Forecasted town-level growth rates and MW demands, as well as the historical town-level MWh levels and trend growth rates upon which the allocation of PSA peak to towns is based, are shown in Appendix K.

Appendix G

2010 Power Supply Area Forecast

Narragansett Electric Company

Summer Peak Demands

Energy Portfolio Management
Electric Load Forecasting

April 1, 2010

Contents

Company Summaries: Summer Peak Demand at Time of Narragansett Electric Company Peak

Summer Peak Demand at Time of Company Peak

PSA Coincident Summer Peak Demands (Non-Coincident Peaks)

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
SUMMER PEAK DEMANDS COINCIDENT WITH COMPANY PEAK
ACTUAL HISTORY AND FORECAST WITH EXTREME WEATHER AND DSM (MW)

Year	Mo	Sum of Narragansett PSAs	Growth Rate	Providence PSA	Growth Rate	Western PSA	Growth Rate	Blackstone PSA	Growth Rate	Newport PSA	Growth Rate
1999	7	1,510.600	6.5%	397.000	3.4%	736.000	10.8%	265.700	(1.2%)	111.900	10.2%
2000	8	1,475.400	(2.3%)	393.200	(1.0%)	694.600	(5.6%)	278.800	4.9%	108.800	(2.8%)
2001	8	1,663.324	12.7%	428.366	8.9%	809.650	16.6%	304.708	9.3%	120.600	10.8%
2002	8	1,687.100	1.4%	435.500	1.7%	823.600	1.7%	310.500	1.9%	117.500	(2.6%)
2003	8	1,635.877	(3.0%)	427.664	(1.8%)	810.294	(1.6%)	277.719	(10.6%)	120.200	2.3%
2004	8	1,601.714	(2.1%)	421.297	(1.5%)	773.807	(4.5%)	289.110	4.1%	117.500	(2.2%)
2005	8	1,787.842	11.6%	450.357	6.9%	888.742	14.9%	321.643	11.3%	127.100	8.2%
2006	8	1,931.975	8.1%	496.525	10.3%	957.751	7.8%	334.899	4.1%	142.800	12.4%
2007	8	1,760.051	(8.9%)	453.880	(8.6%)	873.969	(8.7%)	304.101	(9.2%)	128.101	(10.3%)
2008	6	1,781.256	1.2%	469.340	3.4%	871.427	(0.3%)	321.389	5.7%	119.100	(7.0%)
2009	8	1,675.809	(5.9%)	436.014	(7.1%)	825.661	(5.3%)	287.434	(10.6%)	126.700	6.4%
Forecast											
2010	8	1,778.796	6.1%	455.511	4.5%	893.127	8.2%	300.408	4.5%	129.749	2.4%
2011	8	1,803.921	1.4%	456.295	0.2%	916.508	2.6%	300.242	(0.1%)	130.877	0.9%
2012	8	1,846.655	2.4%	460.702	1.0%	950.214	3.7%	301.733	0.5%	134.006	2.4%
2013	8	1,895.332	2.6%	466.511	1.3%	987.110	3.9%	304.060	0.8%	137.651	2.7%
2014	8	1,930.434	1.9%	469.695	0.7%	1,015.758	2.9%	305.344	0.4%	139.638	1.4%
2015	8	1,960.015	1.5%	471.806	0.4%	1,041.059	2.5%	306.197	0.3%	140.953	0.9%
2016	8	1,987.663	1.4%	473.542	0.4%	1,065.188	2.3%	306.899	0.2%	142.034	0.8%
2017	8	2,013.813	1.3%	474.987	0.3%	1,088.410	2.2%	307.484	0.2%	142.932	0.6%
2018	8	2,038.416	1.2%	476.131	0.2%	1,110.694	2.0%	307.949	0.2%	143.642	0.5%
2019	8	2,061.758	1.1%	477.030	0.2%	1,132.214	1.9%	308.315	0.1%	144.199	0.4%
2020	8	2,085.384	1.1%	477.984	0.2%	1,153.908	1.9%	308.702	0.1%	144.790	0.4%
2021	8	2,108.880	1.1%	478.912	0.2%	1,175.523	1.9%	309.079	0.1%	145.365	0.4%
2022	8	2,132.250	1.1%	479.815	0.2%	1,197.063	1.8%	309.446	0.1%	145.925	0.4%
2023	8	2,155.657	1.1%	480.725	0.2%	1,218.626	1.8%	309.816	0.1%	146.490	0.4%
2024	8	2,178.909	1.1%	481.605	0.2%	1,240.096	1.8%	310.173	0.1%	147.035	0.4%

Compound Annual Growth

Period	Narragansett	Providence	Western	Blackstone	Newport
1999-2009 Ten Year	1.0%	0.9%	1.2%	0.8%	1.2%
2009-2014 Five Year	2.9%	1.5%	4.2%	1.2%	2.0%
2009-2019 Ten Year	2.1%	0.9%	3.2%	0.7%	1.3%
2009-2024 Fifteen Year	1.8%	0.7%	2.7%	0.5%	1.0%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
COMPANY SUMMER PEAK DEMANDS WITH DSM (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
1999	7	1,510.600	.	1,510.600	.	1,528.501	.	1,425.533	.	0.000	0.0%
2000	8	1,475.400	(2.3%)	1,475.400	(2.3%)	1,637.675	7.1%	1,557.130	9.2%	0.000	0.0%
2001	8	1,663.324	12.7%	1,663.324	12.7%	1,661.696	1.5%	1,577.831	1.3%	0.000	0.0%
2002	8	1,687.100	1.4%	1,687.100	1.4%	1,703.101	2.5%	1,615.916	2.4%	0.000	0.0%
2003	8	1,635.877	(3.0%)	1,635.877	(3.0%)	1,773.100	4.1%	1,682.595	4.1%	0.000	0.0%
2004	8	1,601.714	(2.1%)	1,601.714	(2.1%)	1,837.063	3.6%	1,743.239	3.6%	0.000	0.0%
2005	8	1,787.842	11.6%	1,787.842	11.6%	1,788.064	(2.7%)	1,690.919	(3.0%)	0.000	0.0%
2006	8	1,931.975	8.1%	1,931.975	8.1%	1,913.410	7.0%	1,812.946	7.2%	0.000	0.0%
2007	8	1,760.051	(8.9%)	1,760.051	(8.9%)	1,863.616	(2.6%)	1,759.832	(2.9%)	0.000	0.0%
2008	6	1,781.256	1.2%	1,781.256	1.2%	1,759.668	(5.6%)	1,652.564	(6.1%)	0.000	0.0%
2009	8	1,675.809	(5.9%)	1,675.809	(5.9%)	1,769.104	0.5%	1,658.681	0.4%	0.000	0.0%
Forecast											
2010	8	1,778.796	6.1%	1,665.052	(0.6%)	1,778.796	0.5%	1,665.052	0.4%	-2.064	(0.1%)
2011	8	1,803.921	1.4%	1,686.858	1.3%	1,803.921	1.4%	1,686.858	1.3%	5.244	0.3%
2012	8	1,846.655	2.4%	1,726.272	2.3%	1,846.655	2.4%	1,726.272	2.3%	9.636	0.5%
2013	8	1,895.332	2.6%	1,771.629	2.6%	1,895.332	2.6%	1,771.629	2.6%	9.804	0.5%
2014	8	1,930.434	1.9%	1,803.412	1.8%	1,930.434	1.9%	1,803.412	1.8%	9.804	0.5%
2015	8	1,960.015	1.5%	1,829.673	1.5%	1,960.015	1.5%	1,829.673	1.5%	9.804	0.5%
2016	8	1,987.663	1.4%	1,854.001	1.3%	1,987.663	1.4%	1,854.001	1.3%	9.804	0.5%
2017	8	2,013.813	1.3%	1,876.831	1.2%	2,013.813	1.3%	1,876.831	1.2%	9.804	0.5%
2018	8	2,038.416	1.2%	1,898.114	1.1%	2,038.416	1.2%	1,898.114	1.1%	9.804	0.5%
2019	8	2,061.758	1.1%	1,918.136	1.1%	2,061.758	1.1%	1,918.136	1.1%	9.804	0.5%
2020	8	2,085.384	1.1%	1,938.443	1.1%	2,085.384	1.1%	1,938.443	1.1%	9.804	0.5%
2021	8	2,108.880	1.1%	1,958.619	1.0%	2,108.880	1.1%	1,958.619	1.0%	9.804	0.5%
2022	8	2,132.250	1.1%	1,978.670	1.0%	2,132.250	1.1%	1,978.670	1.0%	9.804	0.5%
2023	8	2,155.657	1.1%	1,998.756	1.0%	2,155.657	1.1%	1,998.756	1.0%	9.804	0.5%
2024	8	2,178.909	1.1%	2,018.689	1.0%	2,178.909	1.1%	2,018.689	1.0%	9.804	0.4%

Compound Annual Growth

1999-2009 Ten Year	1.0%	1.0%	1.5%	1.5%
2004-2009 Five Year	0.9%	0.9%	(0.8%)	(1.0%)
2009-2014 Five Year	2.9%	1.5%	1.8%	1.7%
2009-2019 Ten Year	2.1%	1.4%	1.5%	1.5%
2009-2024 Fifteen Year	1.8%	1.2%	1.4%	1.3%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
PROVIDENCE PSA
SUMMER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	8	421.297	(1.5%)	421.297	(1.5%)	481.663	3.6%	457.832	3.8%	0.000	0.0%
2005	8	450.357	6.9%	450.357	6.9%	450.579	(6.5%)	426.747	(6.8%)	0.000	0.0%
2006	8	496.525	10.3%	496.525	10.3%	490.732	8.9%	466.901	9.4%	0.000	0.0%
2007	8	453.880	(8.6%)	453.880	(8.6%)	477.492	(2.7%)	453.661	(2.8%)	0.000	0.0%
2008	6	469.340	3.4%	469.340	3.4%	449.701	(5.8%)	425.870	(6.1%)	0.000	0.0%
2009	8	436.014	(7.1%)	436.014	(7.1%)	457.149	1.7%	433.318	1.7%	0.000	0.0%
Forecast											
2010	8	455.511	4.5%	431.680	(1.0%)	455.511	(0.4%)	431.680	(0.4%)	-0.529	(0.1%)
2011	8	456.295	0.2%	432.464	0.2%	456.295	0.2%	432.464	0.2%	1.326	0.3%
2012	8	460.702	1.0%	436.871	1.0%	460.702	1.0%	436.871	1.0%	2.404	0.5%
2013	8	466.511	1.3%	442.680	1.3%	466.511	1.3%	442.680	1.3%	2.413	0.5%
2014	8	469.695	0.7%	445.863	0.7%	469.695	0.7%	445.863	0.7%	2.385	0.5%
2015	8	471.806	0.4%	447.975	0.5%	471.806	0.4%	447.975	0.5%	2.360	0.5%
2016	8	473.542	0.4%	449.711	0.4%	473.542	0.4%	449.711	0.4%	2.336	0.5%
2017	8	474.987	0.3%	451.156	0.3%	474.987	0.3%	451.156	0.3%	2.312	0.5%
2018	8	476.131	0.2%	452.300	0.3%	476.131	0.2%	452.300	0.3%	2.290	0.5%
2019	8	477.030	0.2%	453.199	0.2%	477.030	0.2%	453.199	0.2%	2.268	0.5%
2020	8	477.984	0.2%	454.153	0.2%	477.984	0.2%	454.153	0.2%	2.247	0.5%
2021	8	478.912	0.2%	455.081	0.2%	478.912	0.2%	455.081	0.2%	2.226	0.5%
2022	8	479.815	0.2%	455.984	0.2%	479.815	0.2%	455.984	0.2%	2.206	0.5%
2023	8	480.725	0.2%	456.894	0.2%	480.725	0.2%	456.894	0.2%	2.186	0.5%
2024	8	481.605	0.2%	457.773	0.2%	481.605	0.2%	457.773	0.2%	2.167	0.4%

Compound Annual Growth

	Actual Extreme Growth	Actual Normal Growth	Weather Adj. Extreme Growth	Weather Adj. Normal Growth
2004-2009 Five Year	0.7%	0.7%	(1.0%)	(1.1%)
2009-2014 Five Year	1.5%	0.4%	0.5%	0.6%
2009-2019 Ten Year	0.9%	0.4%	0.4%	0.4%
2009-2024 Fifteen Year	0.7%	0.3%	0.3%	0.4%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
WESTERN NECO PSA
SUMMER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	8	773.807	.	773.807	.	895.533	.	846.842	.	0.000	0.0%
2005	8	888.742	14.9%	888.742	14.9%	888.742	(0.8%)	836.732	(1.2%)	0.000	0.0%
2006	8	957.751	7.8%	957.751	7.8%	948.529	6.7%	893.199	6.7%	0.000	0.0%
2007	8	873.969	(8.7%)	873.969	(8.7%)	932.619	(1.7%)	873.969	(2.2%)	0.000	0.0%
2008	6	871.427	(0.3%)	871.427	(0.3%)	884.328	(5.2%)	822.359	(5.9%)	0.000	0.0%
2009	8	825.661	(5.3%)	825.661	(5.3%)	880.069	(0.5%)	814.779	(0.9%)	0.000	0.0%
Forecast											
2010	8	893.127	8.2%	824.518	(0.1%)	893.127	1.5%	824.518	1.2%	-1.036	(0.1%)
2011	8	916.508	2.6%	844.579	2.4%	916.508	2.6%	844.579	2.4%	2.664	0.3%
2012	8	950.214	3.7%	874.965	3.6%	950.214	3.7%	874.965	3.6%	4.958	0.5%
2013	8	987.110	3.9%	908.541	3.8%	987.110	3.9%	908.541	3.8%	5.106	0.5%
2014	8	1,015.758	2.9%	933.870	2.8%	1,015.758	2.9%	933.870	2.8%	5.159	0.5%
2015	8	1,041.059	2.5%	955.851	2.4%	1,041.059	2.5%	955.851	2.4%	5.207	0.5%
2016	8	1,065.188	2.3%	976.660	2.2%	1,065.188	2.3%	976.660	2.2%	5.254	0.5%
2017	8	1,088.410	2.2%	996.562	2.0%	1,088.410	2.2%	996.562	2.0%	5.299	0.5%
2018	8	1,110.694	2.0%	1,015.527	1.9%	1,110.694	2.0%	1,015.527	1.9%	5.342	0.5%
2019	8	1,132.214	1.9%	1,033.727	1.8%	1,132.214	1.9%	1,033.727	1.8%	5.384	0.5%
2020	8	1,153.908	1.9%	1,052.101	1.8%	1,153.908	1.9%	1,052.101	1.8%	5.425	0.5%
2021	8	1,175.523	1.9%	1,070.396	1.7%	1,175.523	1.9%	1,070.396	1.7%	5.465	0.5%
2022	8	1,197.063	1.8%	1,088.617	1.7%	1,197.063	1.8%	1,088.617	1.7%	5.504	0.5%
2023	8	1,218.626	1.8%	1,106.860	1.7%	1,218.626	1.8%	1,106.860	1.7%	5.542	0.5%
2024	8	1,240.096	1.8%	1,125.010	1.6%	1,240.096	1.8%	1,125.010	1.6%	5.580	0.4%

Compound Annual Growth

2004-2009 Five Year	1.3%	1.3%	(0.3%)	(0.8%)
2009-2014 Five Year	4.2%	2.5%	2.9%	2.8%
2009-2019 Ten Year	3.2%	2.3%	2.6%	2.4%
2009-2024 Fifteen Year	2.7%	2.1%	2.3%	2.2%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
BLACKSTONE VALLEY PSA
SUMMER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	8	289.110	.	289.110	.	329.585	.	313.395	.	0.000	0.0%
2005	8	321.643	11.3%	321.643	11.3%	321.643	(2.4%)	305.453	(2.5%)	0.000	0.0%
2006	8	334.899	4.1%	334.899	4.1%	332.201	3.3%	316.011	3.5%	0.000	0.0%
2007	8	304.101	(9.2%)	304.101	(9.2%)	320.291	(3.6%)	304.101	(3.8%)	0.000	0.0%
2008	6	321.389	5.7%	321.389	5.7%	291.660	(8.9%)	275.470	(9.4%)	0.000	0.0%
2009	8	287.434	(10.6%)	287.434	(10.6%)	300.926	3.2%	284.736	3.4%	0.000	0.0%
Forecast											
2010	8	300.408	4.5%	284.218	(1.1%)	300.408	(0.2%)	284.218	(0.2%)	-0.349	(0.1%)
2011	8	300.242	(0.1%)	284.052	(0.1%)	300.242	(0.1%)	284.052	(0.1%)	0.873	0.3%
2012	8	301.733	0.5%	285.543	0.5%	301.733	0.5%	285.543	0.5%	1.574	0.5%
2013	8	304.060	0.8%	287.870	0.8%	304.060	0.8%	287.870	0.8%	1.573	0.5%
2014	8	305.344	0.4%	289.154	0.4%	305.344	0.4%	289.154	0.4%	1.551	0.5%
2015	8	306.197	0.3%	290.007	0.3%	306.197	0.3%	290.007	0.3%	1.532	0.5%
2016	8	306.899	0.2%	290.709	0.2%	306.899	0.2%	290.709	0.2%	1.514	0.5%
2017	8	307.484	0.2%	291.294	0.2%	307.484	0.2%	291.294	0.2%	1.497	0.5%
2018	8	307.949	0.2%	291.759	0.2%	307.949	0.2%	291.759	0.2%	1.481	0.5%
2019	8	308.315	0.1%	292.125	0.1%	308.315	0.1%	292.125	0.1%	1.466	0.5%
2020	8	308.702	0.1%	292.512	0.1%	308.702	0.1%	292.512	0.1%	1.451	0.5%
2021	8	309.079	0.1%	292.889	0.1%	309.079	0.1%	292.889	0.1%	1.437	0.5%
2022	8	309.446	0.1%	293.256	0.1%	309.446	0.1%	293.256	0.1%	1.423	0.5%
2023	8	309.816	0.1%	293.626	0.1%	309.816	0.1%	293.626	0.1%	1.409	0.5%
2024	8	310.173	0.1%	293.983	0.1%	310.173	0.1%	293.983	0.1%	1.396	0.4%

Compound Annual Growth

	Actual Extreme	Actual Normal	Weather Adj. Extreme	Weather Adj. Normal
2004-2009 Five Year	(0.1%)	(0.1%)	(1.8%)	(1.9%)
2009-2014 Five Year	1.2%	0.1%	0.3%	0.3%
2009-2019 Ten Year	0.7%	0.2%	0.2%	0.3%
2009-2024 Fifteen Year	0.5%	0.2%	0.2%	0.2%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
NEWPORT PSA
SUMMER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	8	117.500	.	117.500	.	130.282	.	125.169	.	0.000	0.0%
2005	8	127.100	8.2%	127.100	8.2%	127.100	(2.4%)	121.987	(2.5%)	0.000	0.0%
2006	8	142.800	12.4%	142.800	12.4%	141.948	11.7%	136.835	12.2%	0.000	0.0%
2007	8	128.101	(10.3%)	128.101	(10.3%)	133.214	(6.2%)	128.101	(6.4%)	0.000	0.0%
2008	6	119.100	(7.0%)	119.100	(7.0%)	133.978	0.6%	128.865	0.6%	0.000	0.0%
2009	8	126.700	6.4%	126.700	6.4%	130.961	(2.3%)	125.848	(2.3%)	0.000	0.0%
Forecast											
2010	8	129.749	2.4%	124.636	(1.6%)	129.749	(0.9%)	124.636	(1.0%)	-0.151	(0.1%)
2011	8	130.877	0.9%	125.764	0.9%	130.877	0.9%	125.764	0.9%	0.380	0.3%
2012	8	134.006	2.4%	128.893	2.5%	134.006	2.4%	128.893	2.5%	0.699	0.5%
2013	8	137.651	2.7%	132.538	2.8%	137.651	2.7%	132.538	2.8%	0.712	0.5%
2014	8	139.638	1.4%	134.525	1.5%	139.638	1.4%	134.525	1.5%	0.709	0.5%
2015	8	140.953	0.9%	135.840	1.0%	140.953	0.9%	135.840	1.0%	0.705	0.5%
2016	8	142.034	0.8%	136.921	0.8%	142.034	0.8%	136.921	0.8%	0.701	0.5%
2017	8	142.932	0.6%	137.819	0.7%	142.932	0.6%	137.819	0.7%	0.696	0.5%
2018	8	143.642	0.5%	138.529	0.5%	143.642	0.5%	138.529	0.5%	0.691	0.5%
2019	8	144.199	0.4%	139.086	0.4%	144.199	0.4%	139.086	0.4%	0.686	0.5%
2020	8	144.790	0.4%	139.677	0.4%	144.790	0.4%	139.677	0.4%	0.681	0.5%
2021	8	145.365	0.4%	140.252	0.4%	145.365	0.4%	140.252	0.4%	0.676	0.5%
2022	8	145.925	0.4%	140.812	0.4%	145.925	0.4%	140.812	0.4%	0.671	0.5%
2023	8	146.490	0.4%	141.377	0.4%	146.490	0.4%	141.377	0.4%	0.666	0.5%
2024	8	147.035	0.4%	141.922	0.4%	147.035	0.4%	141.922	0.4%	0.662	0.4%

Compound Annual Growth

	Actual Extreme	Actual Normal	Weather Adj. Extreme	Weather Adj. Normal
2004-2009 Five Year	1.5%	1.5%	0.1%	0.1%
2009-2014 Five Year	2.0%	1.2%	1.3%	1.3%
2009-2019 Ten Year	1.3%	0.9%	1.0%	1.0%
2009-2024 Fifteen Year	1.0%	0.8%	0.8%	0.8%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
PROVIDENCE PSA
PSA COINCIDENT SUMMER PEAK DEMAND WITH DSM
(MW)

		With Actual History				With Weather Adjusted History					
Year		Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	8	424.361	.	424.361	.	482.799	.	458.911	.	0.000	0.0%
2005	8	450.357	6.1%	450.357	6.1%	451.641	(6.5%)	427.754	(6.8%)	0.000	0.0%
2006	8	496.525	10.3%	496.525	10.3%	491.890	8.9%	468.002	9.4%	0.000	0.0%
2007	8	453.880	(8.6%)	453.880	(8.6%)	478.618	(2.7%)	454.731	(2.8%)	0.000	0.0%
2008	6	476.082	4.9%	476.082	4.9%	450.762	(5.8%)	426.874	(6.1%)	0.000	0.0%
2009	8	395.867	(16.8%)	395.867	(16.8%)	458.227	1.7%	434.340	1.7%	0.000	0.0%
Forecast											
2010	8	456.585	15.3%	432.698	9.3%	456.585	(0.4%)	432.698	(0.4%)	-0.529	(0.1%)
2011	8	457.371	0.2%	433.483	0.2%	457.371	0.2%	433.483	0.2%	1.326	0.3%
2012	8	461.789	1.0%	437.901	1.0%	461.789	1.0%	437.901	1.0%	2.404	0.5%
2013	8	467.611	1.3%	443.724	1.3%	467.611	1.3%	443.724	1.3%	2.413	0.5%
2014	8	470.802	0.7%	446.915	0.7%	470.802	0.7%	446.915	0.7%	2.385	0.5%
2015	8	472.919	0.4%	449.031	0.5%	472.919	0.4%	449.031	0.5%	2.360	0.5%
2016	8	474.659	0.4%	450.771	0.4%	474.659	0.4%	450.771	0.4%	2.336	0.5%
2017	8	476.107	0.3%	452.220	0.3%	476.107	0.3%	452.220	0.3%	2.312	0.5%
2018	8	477.254	0.2%	453.366	0.3%	477.254	0.2%	453.366	0.3%	2.290	0.5%
2019	8	478.155	0.2%	454.268	0.2%	478.155	0.2%	454.268	0.2%	2.268	0.5%
2020	8	479.111	0.2%	455.224	0.2%	479.111	0.2%	455.224	0.2%	2.247	0.5%
2021	8	480.041	0.2%	456.154	0.2%	480.041	0.2%	456.154	0.2%	2.226	0.5%
2022	8	480.947	0.2%	457.059	0.2%	480.947	0.2%	457.059	0.2%	2.206	0.5%
2023	8	481.859	0.2%	457.971	0.2%	481.859	0.2%	457.971	0.2%	2.186	0.5%
2024	8	482.740	0.2%	458.853	0.2%	482.740	0.2%	458.853	0.2%	2.167	0.4%

Compound Annual Growth

	Actual Extreme Growth Rate	Actual Normal Growth Rate	Weather Adj. Extreme Growth Rate	Weather Adj. Normal Growth Rate
2004-2009 Five Year	(1.4%)	(1.4%)	(1.0%)	(1.1%)
2009-2014 Five Year	3.5%	2.5%	0.5%	0.6%
2009-2019 Ten Year	1.9%	1.4%	0.4%	0.4%
2009-2024 Fifteen Year	1.3%	1.0%	0.3%	0.4%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
WESTERN NECO PSA
PSA COINCIDENT SUMMER PEAK DEMAND WITH DSM (MW)

		With Actual History				With Weather Adjusted History					
Year		Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	8	773.807	.	773.807	.	895.533	.	846.842	.	0.000	0.0%
2005	8	888.742	14.9%	888.742	14.9%	888.742	(0.8%)	836.732	(1.2%)	0.000	0.0%
2006	8	957.751	7.8%	957.751	7.8%	948.529	6.7%	893.199	6.7%	0.000	0.0%
2007	8	873.969	(8.7%)	873.969	(8.7%)	932.619	(1.7%)	873.969	(2.2%)	0.000	0.0%
2008	6	871.427	(0.3%)	871.427	(0.3%)	884.328	(5.2%)	822.359	(5.9%)	0.000	0.0%
2009	8	829.540	(4.8%)	829.540	(4.8%)	880.069	(0.5%)	814.779	(0.9%)	0.000	0.0%
Forecast											
2010	8	893.127	7.7%	824.518	(0.6%)	893.127	1.5%	824.518	1.2%	-1.036	(0.1%)
2011	8	916.508	2.6%	844.579	2.4%	916.508	2.6%	844.579	2.4%	2.664	0.3%
2012	8	950.214	3.7%	874.965	3.6%	950.214	3.7%	874.965	3.6%	4.958	0.5%
2013	8	987.110	3.9%	908.541	3.8%	987.110	3.9%	908.541	3.8%	5.106	0.5%
2014	8	1,015.758	2.9%	933.870	2.8%	1,015.758	2.9%	933.870	2.8%	5.159	0.5%
2015	8	1,041.059	2.5%	955.851	2.4%	1,041.059	2.5%	955.851	2.4%	5.207	0.5%
2016	8	1,065.188	2.3%	976.660	2.2%	1,065.188	2.3%	976.660	2.2%	5.254	0.5%
2017	8	1,088.410	2.2%	996.562	2.0%	1,088.410	2.2%	996.562	2.0%	5.299	0.5%
2018	8	1,110.694	2.0%	1,015.527	1.9%	1,110.694	2.0%	1,015.527	1.9%	5.342	0.5%
2019	8	1,132.214	1.9%	1,033.727	1.8%	1,132.214	1.9%	1,033.727	1.8%	5.384	0.5%
2020	8	1,153.908	1.9%	1,052.101	1.8%	1,153.908	1.9%	1,052.101	1.8%	5.425	0.5%
2021	8	1,175.523	1.9%	1,070.396	1.7%	1,175.523	1.9%	1,070.396	1.7%	5.465	0.5%
2022	8	1,197.063	1.8%	1,088.617	1.7%	1,197.063	1.8%	1,088.617	1.7%	5.504	0.5%
2023	8	1,218.626	1.8%	1,106.860	1.7%	1,218.626	1.8%	1,106.860	1.7%	5.542	0.5%
2024	8	1,240.096	1.8%	1,125.010	1.6%	1,240.096	1.8%	1,125.010	1.6%	5.580	0.4%

Compound Annual Growth

2004-2009 Five Year	1.4%	1.4%	(0.3%)	(0.8%)
2009-2014 Five Year	4.1%	2.4%	2.9%	2.8%
2009-2019 Ten Year	3.2%	2.2%	2.6%	2.4%
2009-2024 Fifteen Year	2.7%	2.1%	2.3%	2.2%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
BLACKSTONE VALLEY PSA
PSA COINCIDENT SUMMER PEAK DEMAND WITH DSM (MW)

		With Actual History				With Weather Adjusted History					
Year		Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	8	289.110	.	289.110	.	329.585	.	313.395	.	0.000	0.0%
2005	8	321.643	11.3%	321.643	11.3%	321.643	(2.4%)	305.453	(2.5%)	0.000	0.0%
2006	8	339.727	5.6%	339.727	5.6%	332.201	3.3%	316.011	3.5%	0.000	0.0%
2007	8	310.301	(8.7%)	310.301	(8.7%)	320.291	(3.6%)	304.101	(3.8%)	0.000	0.0%
2008	6	322.749	4.0%	322.749	4.0%	291.660	(8.9%)	275.470	(9.4%)	0.000	0.0%
2009	8	287.434	(10.9%)	287.434	(10.9%)	300.926	3.2%	284.736	3.4%	0.000	0.0%
Forecast											
2010	8	300.408	4.5%	284.218	(1.1%)	300.408	(0.2%)	284.218	(0.2%)	-0.349	(0.1%)
2011	8	300.242	(0.1%)	284.052	(0.1%)	300.242	(0.1%)	284.052	(0.1%)	0.873	0.3%
2012	8	301.733	0.5%	285.543	0.5%	301.733	0.5%	285.543	0.5%	1.574	0.5%
2013	8	304.060	0.8%	287.870	0.8%	304.060	0.8%	287.870	0.8%	1.573	0.5%
2014	8	305.344	0.4%	289.154	0.4%	305.344	0.4%	289.154	0.4%	1.551	0.5%
2015	8	306.197	0.3%	290.007	0.3%	306.197	0.3%	290.007	0.3%	1.532	0.5%
2016	8	306.899	0.2%	290.709	0.2%	306.899	0.2%	290.709	0.2%	1.514	0.5%
2017	8	307.484	0.2%	291.294	0.2%	307.484	0.2%	291.294	0.2%	1.497	0.5%
2018	8	307.949	0.2%	291.759	0.2%	307.949	0.2%	291.759	0.2%	1.481	0.5%
2019	8	308.315	0.1%	292.125	0.1%	308.315	0.1%	292.125	0.1%	1.466	0.5%
2020	8	308.702	0.1%	292.512	0.1%	308.702	0.1%	292.512	0.1%	1.451	0.5%
2021	8	309.079	0.1%	292.889	0.1%	309.079	0.1%	292.889	0.1%	1.437	0.5%
2022	8	309.446	0.1%	293.256	0.1%	309.446	0.1%	293.256	0.1%	1.423	0.5%
2023	8	309.816	0.1%	293.626	0.1%	309.816	0.1%	293.626	0.1%	1.409	0.5%
2024	8	310.173	0.1%	293.983	0.1%	310.173	0.1%	293.983	0.1%	1.396	0.4%

Compound Annual Growth

	Extreme (Actual)	Normal (Actual)	Extreme (Weather Adj.)	Normal (Weather Adj.)
2004-2009 Five Year	(0.1%)	(0.1%)	(1.8%)	(1.9%)
2009-2014 Five Year	1.2%	0.1%	0.3%	0.3%
2009-2019 Ten Year	0.7%	0.2%	0.2%	0.3%
2009-2024 Fifteen Year	0.5%	0.2%	0.2%	0.2%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
NEWPORT PSA
PSA COINCIDENT SUMMER PEAK DEMAND WITH DSM (MW)

		With Actual History				With Weather Adjusted History					
Year		Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	8	121.100	.	121.100	.	133.068	.	127.846	.	0.000	0.0%
2005	8	129.500	6.9%	129.500	6.9%	129.818	(2.4%)	124.595	(2.5%)	0.000	0.0%
2006	8	144.400	11.5%	144.400	11.5%	144.983	11.7%	139.761	12.2%	0.000	0.0%
2007	8	128.700	(10.9%)	128.700	(10.9%)	136.062	(6.2%)	130.840	(6.4%)	0.000	0.0%
2008	6	126.000	(2.1%)	126.000	(2.1%)	136.843	0.6%	131.620	0.6%	0.000	0.0%
2009	8	130.800	3.8%	130.800	3.8%	133.761	(2.3%)	128.539	(2.3%)	0.000	0.0%
Forecast											
2010	8	132.523	1.3%	127.301	(2.7%)	132.523	(0.9%)	127.301	(1.0%)	-0.151	(0.1%)
2011	8	133.675	0.9%	128.453	0.9%	133.675	0.9%	128.453	0.9%	0.380	0.3%
2012	8	136.872	2.4%	131.649	2.5%	136.872	2.4%	131.649	2.5%	0.699	0.5%
2013	8	140.594	2.7%	135.372	2.8%	140.594	2.7%	135.372	2.8%	0.712	0.5%
2014	8	142.623	1.4%	137.401	1.5%	142.623	1.4%	137.401	1.5%	0.709	0.5%
2015	8	143.967	0.9%	138.745	1.0%	143.967	0.9%	138.745	1.0%	0.705	0.5%
2016	8	145.070	0.8%	139.848	0.8%	145.070	0.8%	139.848	0.8%	0.701	0.5%
2017	8	145.988	0.6%	140.766	0.7%	145.988	0.6%	140.766	0.7%	0.696	0.5%
2018	8	146.713	0.5%	141.491	0.5%	146.713	0.5%	141.491	0.5%	0.691	0.5%
2019	8	147.282	0.4%	142.060	0.4%	147.282	0.4%	142.060	0.4%	0.686	0.5%
2020	8	147.886	0.4%	142.664	0.4%	147.886	0.4%	142.664	0.4%	0.681	0.5%
2021	8	148.474	0.4%	143.251	0.4%	148.474	0.4%	143.251	0.4%	0.676	0.5%
2022	8	149.046	0.4%	143.823	0.4%	149.046	0.4%	143.823	0.4%	0.671	0.5%
2023	8	149.622	0.4%	144.399	0.4%	149.622	0.4%	144.399	0.4%	0.666	0.4%
2024	8	150.179	0.4%	144.956	0.4%	150.179	0.4%	144.956	0.4%	0.662	0.4%

Compound Annual Growth

2004-2009 Five Year	1.6%	1.6%	0.1%	0.1%
2009-2014 Five Year	1.7%	1.0%	1.3%	1.3%
2009-2019 Ten Year	1.2%	0.8%	1.0%	1.0%
2009-2024 Fifteen Year	0.9%	0.7%	0.8%	0.8%

Appendix H

2010 Power Supply Area Forecast

Narragansett Electric Company

Winter Peak Demands

Energy Portfolio Management
Electric Load Forecasting

April 1, 2010

Contents

Company Summaries: Winter Peak Demand at Time of Company Peak

PSA Winter Peak Demand at Time of Company Peak

PSA Coincident Winter Peak Demand

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
WINTER PEAK DEMANDS COINCIDENT WITH COMPANY PEAK
ACTUAL HISTORY AND FORECAST WITH EXTREME WEATHER AND DSM (MW)

Year	Mo	Sum of Narragansett PSAs	Growth Rate	Providence PSA	Growth Rate	Western PSA	Growth Rate	Blackstone PSA	Growth Rate	Newport PSA	Growth Rate
2004	1	1,368.861	7.4%	346.800	9.2%	670.616	7.2%	233.045	6.0%	118.400	6.3%
2004	12	1,367.036	(0.1%)	337.114	(2.8%)	680.200	1.4%	235.022	0.8%	114.700	(3.1%)
2005	12	1,301.943	(4.8%)	326.152	(3.3%)	641.371	(5.7%)	229.120	(2.5%)	105.300	(8.2%)
2007	3	1,308.178	0.5%	335.685	2.9%	641.736	0.1%	223.849	(2.3%)	106.908	1.5%
2008	1	1,331.634	1.8%	352.587	5.0%	639.787	(0.3%)	229.273	2.4%	109.987	2.9%
2008	12	1,271.954	(4.5%)	326.262	(7.5%)	623.835	(2.5%)	216.357	(5.6%)	105.500	(4.1%)
Forecast											
2010	1	1,297.243	2.0%	339.513	4.1%	639.244	2.5%	219.185	1.3%	99.301	(5.9%)
2011	1	1,299.921	0.2%	340.059	0.2%	640.823	0.2%	219.429	0.1%	99.609	0.3%
2012	1	1,322.136	1.7%	344.314	1.3%	654.392	2.1%	221.084	0.8%	102.347	2.7%
2013	1	1,349.051	2.0%	349.242	1.4%	671.211	2.6%	222.783	0.8%	105.815	3.4%
2014	1	1,373.426	1.8%	353.971	1.4%	685.996	2.2%	224.681	0.9%	108.779	2.8%
2015	1	1,386.553	1.0%	356.518	0.7%	693.958	1.2%	225.703	0.5%	110.375	1.5%
2016	1	1,395.946	0.7%	358.340	0.5%	699.655	0.8%	226.434	0.3%	111.517	1.0%
2017	1	1,404.346	0.6%	359.970	0.5%	704.751	0.7%	227.087	0.3%	112.538	0.9%
2018	1	1,410.737	0.5%	361.210	0.3%	708.627	0.6%	227.585	0.2%	113.315	0.7%
2019	1	1,415.960	0.4%	362.223	0.3%	711.796	0.4%	227.991	0.2%	113.950	0.6%
2020	1	1,420.434	0.3%	363.091	0.2%	714.509	0.4%	228.339	0.2%	114.494	0.5%
2021	1	1,425.267	0.3%	364.029	0.3%	717.441	0.4%	228.716	0.2%	115.082	0.5%
2022	1	1,430.088	0.3%	364.964	0.3%	720.365	0.4%	229.091	0.2%	115.668	0.5%
2023	1	1,434.428	0.3%	365.806	0.2%	722.998	0.4%	229.428	0.1%	116.196	0.5%
2024	1	1,439.111	0.3%	366.714	0.2%	725.838	0.4%	229.793	0.2%	116.765	0.5%

Compound Annual Growth

Period	Sum of Narragansett PSAs	Providence PSA	Western PSA	Blackstone PSA	Newport PSA
2004-2009 Five Year	(1.5%)	(1.2%)	(1.4%)	(1.5%)	(2.3%)
2009-2014 Five Year	1.5%	1.6%	1.9%	0.8%	0.6%
2009-2019 Ten Year	1.1%	1.1%	1.3%	0.5%	0.8%
2009-2023 Fifteen Year	0.8%	0.8%	1.0%	0.4%	0.7%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
COMPANY WINTER PEAK DEMANDS WITH DSM (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	1	1,368.861	.	1,368.861	.	1,387.343	.	1,340.367	.	0.000	0.0%
2004	12	1,367.036	(0.1%)	1,367.036	(0.1%)	1,395.374	0.6%	1,348.398	0.6%	0.000	0.0%
2005	12	1,301.943	(4.8%)	1,301.943	(4.8%)	1,311.411	(6.0%)	1,264.435	(6.2%)	0.000	0.0%
2007	3	1,308.178	0.5%	1,308.178	0.5%	1,332.227	1.6%	1,285.251	1.6%	0.000	0.0%
2008	1	1,331.634	1.8%	1,331.634	1.8%	1,401.783	5.2%	1,354.807	5.4%	0.000	0.0%
2008	12	1,271.954	(4.5%)	1,271.954	(4.5%)	1,325.284	(5.5%)	1,278.309	(5.6%)	0.000	0.0%
Forecast											
2010	1	1,297.243	2.0%	1,250.267	(1.7%)	1,297.243	(2.1%)	1,250.267	(2.2%)	1.593	0.1%
2011	1	1,299.921	0.2%	1,252.945	0.2%	1,299.921	0.2%	1,252.945	0.2%	1.192	0.1%
2012	1	1,322.136	1.7%	1,275.160	1.8%	1,322.136	1.7%	1,275.160	1.8%	1.948	0.1%
2013	1	1,349.051	2.0%	1,302.075	2.1%	1,349.051	2.0%	1,302.075	2.1%	6.385	0.5%
2014	1	1,373.426	1.8%	1,326.450	1.9%	1,373.426	1.8%	1,326.450	1.9%	6.385	0.5%
2015	1	1,386.553	1.0%	1,339.577	1.0%	1,386.553	1.0%	1,339.577	1.0%	6.385	0.5%
2016	1	1,395.946	0.7%	1,348.970	0.7%	1,395.946	0.7%	1,348.970	0.7%	6.385	0.5%
2017	1	1,404.346	0.6%	1,357.370	0.6%	1,404.346	0.6%	1,357.370	0.6%	6.385	0.5%
2018	1	1,410.737	0.5%	1,363.761	0.5%	1,410.737	0.5%	1,363.761	0.5%	6.385	0.5%
2019	1	1,415.960	0.4%	1,368.984	0.4%	1,415.960	0.4%	1,368.984	0.4%	6.385	0.5%
2020	1	1,420.434	0.3%	1,373.458	0.3%	1,420.434	0.3%	1,373.458	0.3%	6.385	0.4%
2021	1	1,425.267	0.3%	1,378.292	0.4%	1,425.267	0.3%	1,378.292	0.4%	6.385	0.4%
2022	1	1,430.088	0.3%	1,383.112	0.3%	1,430.088	0.3%	1,383.112	0.3%	6.385	0.4%
2023	1	1,434.428	0.3%	1,387.452	0.3%	1,434.428	0.3%	1,387.452	0.3%	6.385	0.4%
2024	1	1,439.111	0.3%	1,392.135	0.3%	1,439.111	0.3%	1,392.135	0.3%	6.385	0.4%

Compound Annual Growth

	With Actual History: Extreme	With Actual History: Normal	With Weather Adjusted History: Extreme	With Weather Adjusted History: Normal
2004-2009 Five Year	(1.5%)	(1.5%)	(0.9%)	(0.9%)
2009-2014 Five Year	1.5%	0.8%	0.7%	0.7%
2009-2019 Ten Year	1.1%	0.7%	0.7%	0.7%
2009-2023 Fifteen Year	0.8%	0.6%	0.6%	0.6%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
PROVIDENCE PSA
WINTER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	1	346.800	.	346.800	.	350.273	.	338.424	.	0.000	0.0%
2004	12	337.114	(2.8%)	337.114	(2.8%)	353.123	0.8%	341.274	0.8%	0.000	0.0%
2005	12	326.152	(3.3%)	326.152	(3.3%)	329.514	(6.7%)	317.664	(6.9%)	0.000	0.0%
2007	3	335.685	2.9%	335.685	2.9%	348.724	5.8%	336.874	6.0%	0.000	0.0%
2008	1	352.587	5.0%	352.587	5.0%	367.811	5.5%	355.962	5.7%	0.000	0.0%
2008	12	326.262	(7.5%)	326.262	(7.5%)	345.054	(6.2%)	333.204	(6.4%)	0.000	0.0%
Forecast											
2010	1	339.513	4.1%	327.664	0.4%	339.513	(1.6%)	327.664	(1.7%)	0.417	0.1%
2011	1	340.059	0.2%	328.210	0.2%	340.059	0.2%	328.210	0.2%	0.312	0.1%
2012	1	344.314	1.3%	332.464	1.3%	344.314	1.3%	332.464	1.3%	0.507	0.1%
2013	1	349.242	1.4%	337.392	1.5%	349.242	1.4%	337.392	1.5%	1.653	0.5%
2014	1	353.971	1.4%	342.121	1.4%	353.971	1.4%	342.121	1.4%	1.646	0.5%
2015	1	356.518	0.7%	344.668	0.7%	356.518	0.7%	344.668	0.7%	1.642	0.5%
2016	1	358.340	0.5%	346.491	0.5%	358.340	0.5%	346.491	0.5%	1.639	0.5%
2017	1	359.970	0.5%	348.120	0.5%	359.970	0.5%	348.120	0.5%	1.637	0.5%
2018	1	361.210	0.3%	349.360	0.4%	361.210	0.3%	349.360	0.4%	1.635	0.5%
2019	1	362.223	0.3%	350.373	0.3%	362.223	0.3%	350.373	0.3%	1.633	0.5%
2020	1	363.091	0.2%	351.241	0.2%	363.091	0.2%	351.241	0.2%	1.632	0.4%
2021	1	364.029	0.3%	352.179	0.3%	364.029	0.3%	352.179	0.3%	1.631	0.4%
2022	1	364.964	0.3%	353.114	0.3%	364.964	0.3%	353.114	0.3%	1.629	0.4%
2023	1	365.806	0.2%	353.956	0.2%	365.806	0.2%	353.956	0.2%	1.628	0.4%
2024	1	366.714	0.2%	354.865	0.3%	366.714	0.2%	354.865	0.3%	1.627	0.4%

Compound Annual Growth

2004-2009 Five Year	(1.2%)	(1.2%)	(0.3%)	(0.3%)
2009-2014 Five Year	1.6%	1.0%	0.5%	0.5%
2009-2019 Ten Year	1.1%	0.7%	0.5%	0.5%
2009-2024 Fifteen Year	0.8%	0.6%	0.4%	0.4%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
WESTERN NECO PSA
WINTER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	1	670.616	.	670.616	.	679.977	.	658.069	.	0.000	0.0%
2004	12	680.200	1.4%	680.200	1.4%	682.330	0.3%	660.422	0.4%	0.000	0.0%
2005	12	641.371	(5.7%)	641.371	(5.7%)	639.647	(6.3%)	617.739	(6.5%)	0.000	0.0%
2007	3	641.736	0.1%	641.736	0.1%	650.340	1.7%	628.432	1.7%	0.000	0.0%
2008	1	639.787	(0.3%)	639.787	(0.3%)	674.043	3.6%	652.135	3.8%	0.000	0.0%
2008	12	623.835	(2.5%)	623.835	(2.5%)	656.084	(2.7%)	634.177	(2.8%)	0.000	0.0%
Forecast											
2010	1	639.244	2.5%	617.336	(1.0%)	639.244	(2.6%)	617.336	(2.7%)	0.785	0.1%
2011	1	640.823	0.2%	618.915	0.3%	640.823	0.2%	618.915	0.3%	0.588	0.1%
2012	1	654.392	2.1%	632.484	2.2%	654.392	2.1%	632.484	2.2%	0.964	0.1%
2013	1	671.211	2.6%	649.303	2.7%	671.211	2.6%	649.303	2.7%	3.177	0.5%
2014	1	685.996	2.2%	664.088	2.3%	685.996	2.2%	664.088	2.3%	3.189	0.5%
2015	1	693.958	1.2%	672.050	1.2%	693.958	1.2%	672.050	1.2%	3.196	0.5%
2016	1	699.655	0.8%	677.748	0.8%	699.655	0.8%	677.748	0.8%	3.200	0.5%
2017	1	704.751	0.7%	682.843	0.8%	704.751	0.7%	682.843	0.8%	3.204	0.5%
2018	1	708.627	0.6%	686.719	0.6%	708.627	0.6%	686.719	0.6%	3.207	0.5%
2019	1	711.796	0.4%	689.888	0.5%	711.796	0.4%	689.888	0.5%	3.210	0.5%
2020	1	714.509	0.4%	692.601	0.4%	714.509	0.4%	692.601	0.4%	3.212	0.4%
2021	1	717.441	0.4%	695.533	0.4%	717.441	0.4%	695.533	0.4%	3.214	0.4%
2022	1	720.365	0.4%	698.457	0.4%	720.365	0.4%	698.457	0.4%	3.216	0.4%
2023	1	722.998	0.4%	701.090	0.4%	722.998	0.4%	701.090	0.4%	3.218	0.4%
2024	1	725.838	0.4%	703.931	0.4%	725.838	0.4%	703.931	0.4%	3.220	0.4%

Compound Annual Growth

	Actual Extreme	Actual Normal	Weather Adj. Extreme	Weather Adj. Normal
2004-2009 Five Year	(1.4%)	(1.4%)	(0.7%)	(0.7%)
2009-2014 Five Year	1.9%	1.3%	0.9%	0.9%
2009-2019 Ten Year	1.3%	1.0%	0.8%	0.8%
2009-2024 Fifteen Year	1.0%	0.8%	0.7%	0.7%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
BLACKSTONE VALLEY PSA
WINTER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	1	233.045	.	233.045	.	236.267	.	228.727	.	0.000	0.0%
2004	12	235.022	0.8%	235.022	0.8%	238.357	0.9%	230.817	0.9%	0.000	0.0%
2005	12	229.120	(2.5%)	229.120	(2.5%)	231.835	(2.7%)	224.296	(2.8%)	0.000	0.0%
2007	3	223.849	(2.3%)	223.849	(2.3%)	220.600	(4.8%)	213.061	(5.0%)	0.000	0.0%
2008	1	229.273	2.4%	229.273	2.4%	241.062	9.3%	233.523	9.6%	0.000	0.0%
2008	12	216.357	(5.6%)	216.357	(5.6%)	221.502	(8.1%)	213.963	(8.4%)	0.000	0.0%
Forecast											
2010	1	219.185	1.3%	211.645	(2.2%)	219.185	(1.0%)	211.645	(1.1%)	0.269	0.1%
2011	1	219.429	0.1%	211.889	0.1%	219.429	0.1%	211.889	0.1%	0.201	0.1%
2012	1	221.084	0.8%	213.544	0.8%	221.084	0.8%	213.544	0.8%	0.326	0.1%
2013	1	222.783	0.8%	215.243	0.8%	222.783	0.8%	215.243	0.8%	1.054	0.5%
2014	1	224.681	0.9%	217.141	0.9%	224.681	0.9%	217.141	0.9%	1.045	0.5%
2015	1	225.703	0.5%	218.163	0.5%	225.703	0.5%	218.163	0.5%	1.039	0.5%
2016	1	226.434	0.3%	218.894	0.3%	226.434	0.3%	218.894	0.3%	1.036	0.5%
2017	1	227.087	0.3%	219.548	0.3%	227.087	0.3%	219.548	0.3%	1.032	0.5%
2018	1	227.585	0.2%	220.045	0.2%	227.585	0.2%	220.045	0.2%	1.030	0.5%
2019	1	227.991	0.2%	220.452	0.2%	227.991	0.2%	220.452	0.2%	1.028	0.5%
2020	1	228.339	0.2%	220.800	0.2%	228.339	0.2%	220.800	0.2%	1.026	0.4%
2021	1	228.716	0.2%	221.176	0.2%	228.716	0.2%	221.176	0.2%	1.025	0.4%
2022	1	229.091	0.2%	221.551	0.2%	229.091	0.2%	221.551	0.2%	1.023	0.4%
2023	1	229.428	0.1%	221.889	0.2%	229.428	0.1%	221.889	0.2%	1.021	0.4%
2024	1	229.793	0.2%	222.253	0.2%	229.793	0.2%	222.253	0.2%	1.020	0.4%

Compound Annual Growth				
2004-2009 Five Year	(1.5%)	(1.5%)	(1.3%)	(1.3%)
2009-2014 Five Year	0.8%	0.1%	0.3%	0.3%
2009-2019 Ten Year	0.5%	0.2%	0.3%	0.3%
2009-2024 Fifteen Year	0.4%	0.2%	0.2%	0.3%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
NEWPORT PSA
WINTER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	1	118.400	.	118.400	.	120.826	.	115.148	.	0.000	0.0%
2004	12	114.700	(3.1%)	114.700	(3.1%)	121.563	0.6%	115.884	0.6%	0.000	0.0%
2005	12	105.300	(8.2%)	105.300	(8.2%)	110.415	(9.2%)	104.736	(9.6%)	0.000	0.0%
2007	3	106.908	1.5%	106.908	1.5%	112.563	1.9%	106.884	2.1%	0.000	0.0%
2008	1	109.987	2.9%	109.987	2.9%	118.866	5.6%	113.188	5.9%	0.000	0.0%
2008	12	105.500	(4.1%)	105.500	(4.1%)	102.644	(13.6%)	96.965	(14.3%)	0.000	0.0%
Forecast											
2010	1	99.301	(5.9%)	93.623	(11.3%)	99.301	(3.3%)	93.623	(3.4%)	0.122	0.1%
2011	1	99.609	0.3%	93.930	0.3%	99.609	0.3%	93.930	0.3%	0.091	0.1%
2012	1	102.347	2.7%	96.668	2.9%	102.347	2.7%	96.668	2.9%	0.151	0.1%
2013	1	105.815	3.4%	100.136	3.6%	105.815	3.4%	100.136	3.6%	0.501	0.5%
2014	1	108.779	2.8%	103.100	3.0%	108.779	2.8%	103.100	3.0%	0.506	0.5%
2015	1	110.375	1.5%	104.696	1.5%	110.375	1.5%	104.696	1.5%	0.508	0.5%
2016	1	111.517	1.0%	105.838	1.1%	111.517	1.0%	105.838	1.1%	0.510	0.5%
2017	1	112.538	0.9%	106.859	1.0%	112.538	0.9%	106.859	1.0%	0.512	0.5%
2018	1	113.315	0.7%	107.636	0.7%	113.315	0.7%	107.636	0.7%	0.513	0.5%
2019	1	113.950	0.6%	108.272	0.6%	113.950	0.6%	108.272	0.6%	0.514	0.5%
2020	1	114.494	0.5%	108.815	0.5%	114.494	0.5%	108.815	0.5%	0.515	0.4%
2021	1	115.082	0.5%	109.403	0.5%	115.082	0.5%	109.403	0.5%	0.516	0.4%
2022	1	115.668	0.5%	109.989	0.5%	115.668	0.5%	109.989	0.5%	0.516	0.4%
2023	1	116.196	0.5%	110.517	0.5%	116.196	0.5%	110.517	0.5%	0.517	0.4%
2024	1	116.765	0.5%	111.087	0.5%	116.765	0.5%	111.087	0.5%	0.518	0.4%

Compound Annual Growth	Actual Extreme	Actual Normal	Weather Adjusted Extreme	Weather Adjusted Normal
2004-2009 Five Year	(2.3%)	(2.3%)	(3.2%)	(3.4%)
2009-2014 Five Year	0.6%	(0.5%)	1.2%	1.2%
2009-2019 Ten Year	0.8%	0.3%	1.1%	1.1%
2009-2024 Fifteen Year	0.7%	0.3%	0.9%	0.9%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
PROVIDENCE PSA
PSA COINCIDENT WINTER PEAK DEMAND WITH DSM (MW)

	With Actual History				With Weather Adjusted History					
Year	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	363.633	.	363.633	.	373.629	.	360.990	.	0.000	0.0%
2005	341.218	(6.2%)	341.218	(6.2%)	376.669	0.8%	364.030	0.8%	0.000	0.0%
2006	328.155	(3.8%)	328.155	(3.8%)	351.486	(6.7%)	338.846	(6.9%)	0.000	0.0%
2007	347.647	5.9%	347.647	5.9%	371.977	5.8%	359.337	6.0%	0.000	0.0%
2008	353.997	1.8%	353.997	1.8%	392.337	5.5%	379.697	5.7%	0.000	0.0%
2009	329.580	(6.9%)	329.580	(6.9%)	368.062	(6.2%)	355.422	(6.4%)	0.000	0.0%
Forecast										
2010	362.152	9.9%	349.512	6.0%	362.152	(1.6%)	349.512	(1.7%)	0.417	0.1%
2011	362.734	0.2%	350.095	0.2%	362.734	0.2%	350.095	0.2%	0.312	0.1%
2012	367.273	1.3%	354.633	1.3%	367.273	1.3%	354.633	1.3%	0.507	0.1%
2013	372.529	1.4%	359.889	1.5%	372.529	1.4%	359.889	1.5%	1.653	0.4%
2014	377.574	1.4%	364.934	1.4%	377.574	1.4%	364.934	1.4%	1.646	0.4%
2015	380.290	0.7%	367.651	0.7%	380.290	0.7%	367.651	0.7%	1.642	0.4%
2016	382.234	0.5%	369.594	0.5%	382.234	0.5%	369.594	0.5%	1.639	0.4%
2017	383.972	0.5%	371.333	0.5%	383.972	0.5%	371.333	0.5%	1.637	0.4%
2018	385.295	0.3%	372.655	0.4%	385.295	0.3%	372.655	0.4%	1.635	0.4%
2019	386.376	0.3%	373.736	0.3%	386.376	0.3%	373.736	0.3%	1.633	0.4%
2020	387.302	0.2%	374.662	0.2%	387.302	0.2%	374.662	0.2%	1.632	0.4%
2021	388.302	0.3%	375.662	0.3%	388.302	0.3%	375.662	0.3%	1.631	0.4%
2022	389.299	0.3%	376.660	0.3%	389.299	0.3%	376.660	0.3%	1.629	0.4%
2023	390.197	0.2%	377.558	0.2%	390.197	0.2%	377.558	0.2%	1.628	0.4%
2024	391.167	0.2%	378.527	0.3%	391.167	0.2%	378.527	0.3%	1.627	0.4%

Compound Annual Growth

Period	Actual Extreme Growth	Actual Normal Growth	Weather Adj. Extreme Growth	Weather Adj. Normal Growth
2004-2009 Five Year	(1.9%)	(1.9%)	(0.3%)	(0.3%)
2009-2014 Five Year	2.8%	2.1%	0.5%	0.5%
2009-2019 Ten Year	1.6%	1.3%	0.5%	0.5%
2009-2024 Fifteen Year	1.1%	0.9%	0.4%	0.4%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
WESTERN NECO PSA
PSA COINCIDENT WINTER PEAK DEMAND WITH DSM (MW)

	With Actual History				With Weather Adjusted History					
Year	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	670.616	.	670.616	.	679.977	.	658.069	.	0.000	0.0%
2005	680.200	1.4%	680.200	1.4%	682.330	0.3%	660.422	0.4%	0.000	0.0%
2006	641.413	(5.7%)	641.413	(5.7%)	639.647	(6.3%)	617.739	(6.5%)	0.000	0.0%
2007	642.594	0.2%	642.594	0.2%	650.340	1.7%	628.432	1.7%	0.000	0.0%
2008	639.787	(0.4%)	652.135	1.5%	674.043	3.6%	652.135	3.8%	0.000	0.0%
2009	623.835	(2.5%)	634.177	(2.8%)	656.084	(2.7%)	634.177	(2.8%)	0.000	0.0%
Forecast										
2010	639.244	2.5%	617.336	(2.7%)	639.244	(2.6%)	617.336	(2.7%)	0.785	0.1%
2011	640.823	0.2%	618.915	0.3%	640.823	0.2%	618.915	0.3%	0.588	0.1%
2012	654.392	2.1%	632.484	2.2%	654.392	2.1%	632.484	2.2%	0.964	0.1%
2013	671.211	2.6%	649.303	2.7%	671.211	2.6%	649.303	2.7%	3.177	0.5%
2014	685.996	2.2%	664.088	2.3%	685.996	2.2%	664.088	2.3%	3.189	0.5%
2015	693.958	1.2%	672.050	1.2%	693.958	1.2%	672.050	1.2%	3.196	0.5%
2016	699.655	0.8%	677.748	0.8%	699.655	0.8%	677.748	0.8%	3.200	0.5%
2017	704.751	0.7%	682.843	0.8%	704.751	0.7%	682.843	0.8%	3.204	0.5%
2018	708.627	0.6%	686.719	0.6%	708.627	0.6%	686.719	0.6%	3.207	0.5%
2019	711.796	0.4%	689.888	0.5%	711.796	0.4%	689.888	0.5%	3.210	0.5%
2020	714.509	0.4%	692.601	0.4%	714.509	0.4%	692.601	0.4%	3.212	0.4%
2021	717.441	0.4%	695.533	0.4%	717.441	0.4%	695.533	0.4%	3.214	0.4%
2022	720.365	0.4%	698.457	0.4%	720.365	0.4%	698.457	0.4%	3.216	0.4%
2023	722.998	0.4%	701.090	0.4%	722.998	0.4%	701.090	0.4%	3.218	0.4%
2024	725.838	0.4%	703.931	0.4%	725.838	0.4%	703.931	0.4%	3.220	0.4%

Compound Annual Growth				
2004-2009 Five Year	(1.4%)	(1.1%)	(0.7%)	(0.7%)
2009-2014 Five Year	1.9%	0.9%	0.9%	0.9%
2009-2019 Ten Year	1.3%	0.8%	0.8%	0.8%
2009-2024 Fifteen Year	1.0%	0.7%	0.7%	0.7%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
BLACKSTONE VALLEY PSA
PSA COINCIDENT WINTER PEAK DEMAND WITH DSM (MW)

	With Actual History				With Weather Adjusted History					
Year	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	233.045	.	233.045	.	236.322	.	228.781	.	0.000	0.0%
2005	235.031	0.9%	235.031	0.9%	238.413	0.9%	230.872	0.9%	0.000	0.0%
2006	231.396	(1.5%)	231.396	(1.5%)	231.890	(2.7%)	224.348	(2.8%)	0.000	0.0%
2007	223.696	(3.3%)	213.111	(7.9%)	220.652	(4.8%)	213.111	(5.0%)	0.000	0.0%
2008	229.273	2.5%	233.578	9.6%	241.119	9.3%	233.578	9.6%	0.000	0.0%
2009	216.839	(5.4%)	214.013	(8.4%)	221.555	(8.1%)	214.013	(8.4%)	0.000	0.0%
Forecast										
2010	219.237	1.1%	211.695	(1.1%)	219.237	(1.0%)	211.695	(1.1%)	0.269	0.1%
2011	219.481	0.1%	211.939	0.1%	219.481	0.1%	211.939	0.1%	0.201	0.1%
2012	221.136	0.8%	213.594	0.8%	221.136	0.8%	213.594	0.8%	0.326	0.1%
2013	222.836	0.8%	215.294	0.8%	222.836	0.8%	215.294	0.8%	1.054	0.5%
2014	224.734	0.9%	217.192	0.9%	224.734	0.9%	217.192	0.9%	1.045	0.5%
2015	225.756	0.5%	218.214	0.5%	225.756	0.5%	218.214	0.5%	1.039	0.5%
2016	226.487	0.3%	218.945	0.3%	226.487	0.3%	218.945	0.3%	1.036	0.5%
2017	227.141	0.3%	219.599	0.3%	227.141	0.3%	219.599	0.3%	1.032	0.5%
2018	227.638	0.2%	220.097	0.2%	227.638	0.2%	220.097	0.2%	1.030	0.5%
2019	228.045	0.2%	220.503	0.2%	228.045	0.2%	220.503	0.2%	1.028	0.5%
2020	228.393	0.2%	220.852	0.2%	228.393	0.2%	220.852	0.2%	1.026	0.4%
2021	228.770	0.2%	221.228	0.2%	228.770	0.2%	221.228	0.2%	1.025	0.4%
2022	229.145	0.2%	221.603	0.2%	229.145	0.2%	221.603	0.2%	1.023	0.4%
2023	229.483	0.1%	221.941	0.2%	229.483	0.1%	221.941	0.2%	1.021	0.4%
2024	229.847	0.2%	222.305	0.2%	229.847	0.2%	222.305	0.2%	1.020	0.4%

Compound Annual Growth

2004-2009 Five Year	(1.4%)	(1.7%)	(1.3%)	(1.3%)
2009-2014 Five Year	0.7%	0.3%	0.3%	0.3%
2009-2019 Ten Year	0.5%	0.3%	0.3%	0.3%
2009-2024 Fifteen Year	0.4%	0.3%	0.2%	0.3%

PSA FORECAST 2010
NARRAGANSETT ELECTRIC COMPANY
NEWPORT PSA
PSA COINCIDENT WINTER PEAK DEMAND WITH DSM (MW)

	With Actual History				With Weather Adjusted History					
Year	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	118.400	.	118.400	.	120.826	.	115.148	.	0.000	0.0%
2005	114.700	(3.1%)	114.700	(3.1%)	121.563	0.6%	115.884	0.6%	0.000	0.0%
2006	105.600	(7.9%)	105.600	(7.9%)	110.415	(9.2%)	104.736	(9.6%)	0.000	0.0%
2007	105.697	0.1%	105.697	0.1%	112.563	1.9%	106.884	2.1%	0.000	0.0%
2008	109.987	4.1%	113.188	7.1%	118.866	5.6%	113.188	5.9%	0.000	0.0%
2009	106.300	(3.4%)	96.965	(14.3%)	102.644	(13.6%)	96.965	(14.3%)	0.000	0.0%
Forecast										
2010	99.301	(6.6%)	93.623	(3.4%)	99.301	(3.3%)	93.623	(3.4%)	0.122	0.1%
2011	99.609	0.3%	93.930	0.3%	99.609	0.3%	93.930	0.3%	0.091	0.1%
2012	102.347	2.7%	96.668	2.9%	102.347	2.7%	96.668	2.9%	0.151	0.1%
2013	105.815	3.4%	100.136	3.6%	105.815	3.4%	100.136	3.6%	0.501	0.5%
2014	108.779	2.8%	103.100	3.0%	108.779	2.8%	103.100	3.0%	0.506	0.5%
2015	110.375	1.5%	104.696	1.5%	110.375	1.5%	104.696	1.5%	0.508	0.5%
2016	111.517	1.0%	105.838	1.1%	111.517	1.0%	105.838	1.1%	0.510	0.5%
2017	112.538	0.9%	106.859	1.0%	112.538	0.9%	106.859	1.0%	0.512	0.5%
2018	113.315	0.7%	107.636	0.7%	113.315	0.7%	107.636	0.7%	0.513	0.5%
2019	113.950	0.6%	108.272	0.6%	113.950	0.6%	108.272	0.6%	0.514	0.5%
2020	114.494	0.5%	108.815	0.5%	114.494	0.5%	108.815	0.5%	0.515	0.4%
2021	115.082	0.5%	109.403	0.5%	115.082	0.5%	109.403	0.5%	0.516	0.4%
2022	115.668	0.5%	109.989	0.5%	115.668	0.5%	109.989	0.5%	0.516	0.4%
2023	116.196	0.5%	110.517	0.5%	116.196	0.5%	110.517	0.5%	0.517	0.4%
2024	116.765	0.5%	111.087	0.5%	116.765	0.5%	111.087	0.5%	0.518	0.4%

Compound Annual Growth

2004-2009 Five Year	(2.1%)	(3.9%)	(3.2%)	(3.4%)
2009-2014 Five Year	0.5%	1.2%	1.2%	1.2%
2009-2019 Ten Year	0.7%	1.1%	1.1%	1.1%
2009-2024 Fifteen Year	0.6%	0.9%	0.9%	0.9%

Appendix I

2010 Power Supply Area Forecast

Regression Results

Energy Portfolio Management
Electric Load Forecasting

April 1, 2010

Appendix I

Regression Results

Contents

2010 PSA Forecast - Central (Mass)
Gardner Model

The AUTOREG Procedure

Dependent Variable Gardner_CP
Gardner Coincident Peak

Ordinary Least Squares Estimates

SSE	1531.60741	DFE	167
MSE	9.17130	Root MSE	3.02842
SBC	954.485643	AIC	916.237013
Regress R-Square	0.7492	Total R-Square	0.7492
Durbin-Watson	1.3789		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-24.6960	7.9325	-3.11	0.0022	
MaxCDD	1	0.3820	0.0388	9.85	<.0001	MaxTemp-65
CumMinHDD	1	0.3704	0.0217	17.04	<.0001	50-CumMinTemp
Econ_WO_I	1	57.1358	7.3554	7.77	<.0001	Worcester Empl/HH
Mar2002	1	-10.5397	3.0500	-3.46	0.0007	Mar2002
May2003	1	-12.9614	3.0494	-4.25	<.0001	May2003
May2007	1	-9.8543	3.0683	-3.21	0.0016	May2007
d2008m2on	1	-3.8412	0.7046	-5.45	<.0001	Feb2008on
d2002m4	1	-7.2043	3.0653	-2.35	0.0199	d2002m4
d2006m4	1	-8.2070	3.0622	-2.68	0.0081	d2006m4
fall06	1	-6.1856	1.8199	-3.40	0.0008	fall06
fall07	1	-6.8312	2.1868	-3.12	0.0021	fall07

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	8.5565	1.000000	| |********************|
1	2.4102	0.281680	| |****** |

Preliminary MSE 7.8776

2010 PSA Forecast - Central (Mass)
Gardner Model

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.281680	0.074472	-3.78

Yule-Walker Estimates

SSE	1393.83062	DFE	166
MSE	8.39657	Root MSE	2.89768
SBC	942.959156	AIC	901.52314
Regress R-Square	0.7188	Total R-Square	0.7718
Durbin-Watson	1.8717		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-23.9320	10.3871	-2.30	0.0225	
MaxCDD	1	0.3795	0.0394	9.63	<.0001	MaxTemp-65
CumMinHDD	1	0.3727	0.0226	16.48	<.0001	50-CumMinTemp
Econ_WO_I	1	56.3957	9.6072	5.87	<.0001	Worcester Empl/HH
Mar2002	1	-10.3776	2.9063	-3.57	0.0005	Mar2002
May2003	1	-12.4420	2.8042	-4.44	<.0001	May2003
May2007	1	-9.2563	2.8169	-3.29	0.0012	May2007
d2008m2on	1	-3.6382	0.9141	-3.98	0.0001	Feb2008on
d2002m4	1	-6.0120	2.9305	-2.05	0.0418	d2002m4
d2006m4	1	-5.8566	2.8135	-2.08	0.0389	d2006m4
fall06	1	-6.9235	2.0638	-3.35	0.0010	fall06
fall07	1	-6.7213	2.3291	-2.89	0.0044	fall07

2010 PSA Forecast - Central (Mass)
Leominster Model

The AUTOREG Procedure

Dependent Variable Leominster_CP
Leominster Coincident Peak

Ordinary Least Squares Estimates

SSE	7463.41269	DFE	164
MSE	45.50861	Root MSE	6.74601
SBC	1253.5292	AIC	1205.71842
Regress R-Square	0.8562	Total R-Square	0.8562
Durbin-Watson	1.4491		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	22.7421	18.2632	1.25	0.2148	
MaxCDD	1	1.3436	0.0975	13.78	<.0001	MaxTemp-65
CumMinHDD	1	0.5761	0.0510	11.30	<.0001	50-CumMinTemp
Econ_WO_I	1	108.0868	16.9098	6.39	<.0001	Worcester Empl/HH
d2004m10	1	-18.7713	6.8868	-2.73	0.0071	d2004m10
d2005m4	1	-18.1191	7.0110	-2.58	0.0106	d2005m4
d200607m9	1	-13.3604	4.9316	-2.71	0.0075	d200607m9
Apr	1	-8.5072	1.9653	-4.33	<.0001	Apr
May	1	-14.4099	2.0345	-7.08	<.0001	May
Oct2001	1	-20.5953	6.8413	-3.01	0.0030	Oct2001
Nov2002	1	-26.3884	6.8126	-3.87	0.0002	Nov2002
Dec2002	1	-19.4254	6.8157	-2.85	0.0049	Dec2002
May2003	1	-18.7358	6.9926	-2.68	0.0081	May2003
Summer2002on	1	16.5769	1.9165	8.65	<.0001	Summer2002on
d2007m10on	1	-19.1199	1.4871	-12.86	<.0001	Oct2007on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	41.6950	1.000000	| |********************|
1	11.3730	0.272765	| |***** |

Preliminary MSE 38.5929

2010 PSA Forecast - Central (Mass)
Leominster Model

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.272765	0.075356	-3.62

Yule-Walker Estimates

SSE	6852.35368	DFE	163
MSE	42.03898	Root MSE	6.48375
SBC	1243.57538	AIC	1192.57721
Regress R-Square	0.8404	Total R-Square	0.8679
Durbin-Watson	1.9448		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	24.7846	23.6124	1.05	0.2954	
MaxCDD	1	1.3606	0.0967	14.06	<.0001	MaxTemp-65
CumMinHDD	1	0.6023	0.0531	11.34	<.0001	50-CumMinTemp
Econ_WO_I	1	105.4428	21.8414	4.83	<.0001	Worcester Empl/HH
d2004m10	1	-14.8873	6.3433	-2.35	0.0201	d2004m10
d2005m4	1	-18.4154	6.4884	-2.84	0.0051	d2005m4
d200607m9	1	-10.2117	4.5719	-2.23	0.0269	d200607m9
Apr	1	-7.4781	1.8813	-3.97	0.0001	Apr
May	1	-13.8036	1.9636	-7.03	<.0001	May
Oct2001	1	-19.7927	6.3004	-3.14	0.0020	Oct2001
Nov2002	1	-24.9918	6.5269	-3.83	0.0002	Nov2002
Dec2002	1	-20.6356	6.5157	-3.17	0.0018	Dec2002
May2003	1	-18.5094	6.4892	-2.85	0.0049	May2003
Summer2002on	1	17.3113	2.0673	8.37	<.0001	Summer2002on
d2007m10on	1	-19.2577	1.9280	-9.99	<.0001	Oct2007on

The AUTOREG Procedure

Dependent Variable Webster_CP
Webster Coincident Peak

Ordinary Least Squares Estimates

SSE	11961.7923	DFE	170
MSE	70.36348	Root MSE	8.38829
SBC	1306.84005	AIC	1278.15358
Regress R-Square	0.8428	Total R-Square	0.8428
Durbin-Watson	1.2964		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-85.8775	22.3122	-3.85	0.0002	
MaxCDDTrend	1	0.0871	0.008497	10.25	<.0001	(MaxTemp-65)*Trend
MaxHDD	1	0.3874	0.1629	2.38	0.0185	50-MaxTemp
CumMinHDD	1	0.6733	0.1538	4.38	<.0001	50-CumMinTemp
Econ_WO_I	1	192.8724	20.9395	9.21	<.0001	Worcester Empl/HH
Apr	1	-11.2436	2.3232	-4.84	<.0001	Apr
May	1	-15.4998	2.4580	-6.31	<.0001	May
Summer2002on	1	15.9442	2.6304	6.06	<.0001	Summer2002on
d2009on	1	-8.5098	2.5452	-3.34	0.0010	d2009on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	66.8257	1.000000	| |********************|
1	22.8551	0.342010	| |******* |

Preliminary MSE 59.0090

2010 PSA Forecast - Central (Mass)
Webster Model

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.342010	0.072284	-4.73

Yule-Walker Estimates

SSE	10462.3894	DFE	169
MSE	61.90763	Root MSE	7.86814
SBC	1288.28886	AIC	1256.415
Regress R-Square	0.8122	Total R-Square	0.8625
Durbin-Watson	1.8898		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-83.5774	30.6691	-2.73	0.0071	
MaxCDDTrend	1	0.0882	0.008107	10.88	<.0001	(MaxTemp-65)*Trend
MaxHDD	1	0.3064	0.1413	2.17	0.0316	50-MaxTemp
CumMinHDD	1	0.7769	0.1388	5.60	<.0001	50-CumMinTemp
Econ_WO_I	1	189.7342	28.5209	6.65	<.0001	Worcester Empl/HH
Apr	1	-9.5303	2.1687	-4.39	<.0001	Apr
May	1	-14.3024	2.3278	-6.14	<.0001	May
Summer2002on	1	16.7372	2.6429	6.33	<.0001	Summer2002on
d2009on	1	-7.7105	3.4268	-2.25	0.0257	d2009on

2010 PSA Forecast - Central (Mass)
Worcester Model

The AUTOREG Procedure

Dependent Variable Worcester_CP
Worcester Coincident Peak

Ordinary Least Squares Estimates

SSE	43180.0833	DFE	158
MSE	273.29167	Root MSE	16.53154
SBC	1447.69593	AIC	1419.63399
Regress R-Square	0.7444	Total R-Square	0.7444
Durbin-Watson	0.8879		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-13.6778	58.5778	-0.23	0.8157	
MaxCDDTrend	1	0.1718	0.0171	10.07	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	1.0369	0.1142	9.08	<.0001	50-CumMinTemp
Econ_WO_I	1	227.3162	54.3095	4.19	<.0001	Worcester Empl/HH
d1996m4	1	-111.6818	16.9710	-6.58	<.0001	d1996m4
d2000m6	1	36.5438	16.6910	2.19	0.0300	d2000m6
d2004m5	1	-39.4444	16.8489	-2.34	0.0205	d2004m5
Summer2002on	1	27.1632	5.0446	5.38	<.0001	Summer2002on
d2007on	1	-20.0023	3.4903	-5.73	<.0001	d2007on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	258.6	1.000000	| |********************|
1	143.9	0.556367	| |*********** |

Preliminary MSE 178.5

2010 PSA Forecast - Central (Mass)
Worcester Model

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.556367	0.066316	-8.39

Yule-Walker Estimates

SSE	28846.879	DFE	157
MSE	183.73808	Root MSE	13.55500
SBC	1386.08996	AIC	1354.91002
Regress R-Square	0.7734	Total R-Square	0.8293
Durbin-Watson	1.7797		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	19.8660	100.2404	0.20	0.8432	
MaxCDDTrend	1	0.1778	0.0135	13.19	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	1.1813	0.1092	10.82	<.0001	50-CumMinTemp
Econ_WO_I	1	192.9001	92.2945	2.09	0.0382	Worcester Empl/HH
d1996m4	1	-113.4685	11.9073	-9.53	<.0001	d1996m4
d2000m6	1	36.8010	11.8610	3.10	0.0023	d2000m6
d2004m5	1	-30.6198	12.1833	-2.51	0.0130	d2004m5
Summer2002on	1	34.2274	4.2433	8.07	<.0001	Summer2002on
d2007on	1	-19.6199	5.8412	-3.36	0.0010	d2007on

2010 PSA Forecast - Western (Mass)
ADAMS MODEL

The AUTOREG Procedure

Dependent Variable Adams_CP
Adams Coincident Peak

Ordinary Least Squares Estimates

SSE	1134.84503	DFE	166
MSE	6.83642	Root MSE	2.61465
SBC	914.952283	AIC	870.250887
Regress R-Square	0.7960	Total R-Square	0.7960
Durbin-Watson	1.3675		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-9.7807	15.4666	-0.63	0.5280	
MaxCDDTrend	1	0.0142	0.002584	5.49	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.2688	0.0171	15.73	<.0001	50-CumMinTemp
Econ_BK_I	1	55.0358	15.5822	3.53	0.0005	Berkshire Empl/HH
d2008m2on	1	-3.3672	0.6400	-5.26	<.0001	Feb08on
d2005m4	1	5.7206	2.7134	2.11	0.0365	Apr05
d2002m8	1	8.0995	2.6841	3.02	0.0030	Aug02
d2000m7	1	-5.1451	2.6427	-1.95	0.0532	Jul00
Apr	1	-5.8871	0.7451	-7.90	<.0001	Apr
May	1	-5.3712	0.7580	-7.09	<.0001	May
Mar1999	1	-5.9746	2.6360	-2.27	0.0247	Mar1999
Mar2000	1	-7.2686	2.6342	-2.76	0.0064	Mar2000
Summer2004	1	4.5138	1.5816	2.85	0.0049	Summer2004
Summer2005on	1	4.4512	0.9639	4.62	<.0001	Summer2005on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	6.3047	1.000000	| |********************|
1	1.8928	0.300224	| |****** |

Preliminary MSE 5.7364

2010 PSA Forecast - Western (Mass)
ADAMS MODEL

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.300224	0.074259	-4.04

Yule-Walker Estimates

SSE	1019.10118	DFE	165
MSE	6.17637	Root MSE	2.48523
SBC	900.876188	AIC	852.981835
Regress R-Square	0.7655	Total R-Square	0.8168
Durbin-Watson	1.8472		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-4.3410	20.4625	-0.21	0.8323	
MaxCDDTrend	1	0.0160	0.002509	6.38	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.2791	0.0185	15.05	<.0001	50-CumMinTemp
Econ_BK_I	1	49.1594	20.5612	2.39	0.0179	Berkshire Empl/HH
d2008m2on	1	-3.5127	0.8344	-4.21	<.0001	Feb08on
d2005m4	1	6.0660	2.4680	2.46	0.0150	Apr05
d2002m8	1	7.3657	2.4069	3.06	0.0026	Aug02
d2000m7	1	-5.1436	2.3896	-2.15	0.0328	Jul00
Apr	1	-5.1858	0.7081	-7.32	<.0001	Apr
May	1	-5.1237	0.7203	-7.11	<.0001	May
Mar1999	1	-5.8594	2.4092	-2.43	0.0161	Mar1999
Mar2000	1	-7.4098	2.3984	-3.09	0.0024	Mar2000
Summer2004	1	4.6109	1.7819	2.59	0.0105	Summer2004
Summer2005on	1	4.4854	0.9801	4.58	<.0001	Summer2005on

2010 PSA Forecast - Western (Mass)
ATHOL MODEL

The AUTOREG Procedure

Dependent Variable Athol_CP
Athol Coincident Peak

Ordinary Least Squares Estimates

SSE	887.952513	DFE	168
MSE	5.28543	Root MSE	2.29901
SBC	860.406409	AIC	822.090927
Regress R-Square	0.8116	Total R-Square	0.8116
Durbin-Watson	0.9936		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-39.3988	6.0346	-6.53	<.0001	
MaxCDD	1	0.0728	0.0332	2.19	0.0296	MaxTemp-65
MaxHDD	1	0.1360	0.0445	3.05	0.0026	50-MaxTemp
CumMinHDD	1	0.1076	0.0432	2.49	0.0138	50-CumMinTemp
Econ_WO_I	1	69.5199	5.5585	12.51	<.0001	Worcester Empl/HH
Apr	1	-2.4975	0.6500	-3.84	0.0002	Apr
May	1	-2.9745	0.6913	-4.30	<.0001	May
Sep1996	1	5.0519	2.3423	2.16	0.0324	Sep1996
Jul1997	1	-5.9697	2.3349	-2.56	0.0115	Jul1997
Jun1998	1	-7.8227	2.3271	-3.36	0.0010	Jun1998
May2000	1	-5.1439	2.3905	-2.15	0.0328	May2000
Summer2002on	1	3.6713	0.6483	5.66	<.0001	Summer2002on

Estimates of Autocorrelations

```
Lag   Covariance   Correlation   -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

  0       4.9331      1.000000   |                    |********************|
  1       2.4487      0.496376   |                    |**********          |
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Preliminary MSE 3.7176

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.496376	0.067176	-7.39

The AUTOREG Procedure

Yule-Walker Estimates

SSE	661.69944	DFE	167
MSE	3.96227	Root MSE	1.99055
SBC	812.943016	AIC	771.434577
Regress R-Square	0.7686	Total R-Square	0.8596
Durbin-Watson	1.9678		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-39.2306	9.8256	-3.99	<.0001	
MaxCDD	1	0.0729	0.0290	2.52	0.0128	MaxTemp-65
MaxHDD	1	0.1201	0.0337	3.56	0.0005	50-MaxTemp
CumMinHDD	1	0.1234	0.0350	3.52	0.0006	50-CumMinTemp
Econ_WO_I	1	69.2992	9.0432	7.66	<.0001	Worcester Empl/HH
Apr	1	-2.0468	0.5510	-3.72	0.0003	Apr
May	1	-2.7817	0.6055	-4.59	<.0001	May
Sep1996	1	4.7122	1.7965	2.62	0.0095	Sep1996
Jul1997	1	-6.1195	1.7870	-3.42	0.0008	Jul1997
Jun1998	1	-8.2079	1.8063	-4.54	<.0001	Jun1998
May2000	1	-5.1824	1.8686	-2.77	0.0062	May2000
Summer2002on	1	3.6333	0.6488	5.60	<.0001	Summer2002on

2010 PSA Forecast - Western (Mass)
NORTHAMPTON MODEL

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Northamp
Dependent Variable	Northampton_CP
Label	Northampton Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	3915.168	391.5168	70.88	<.0001
Error	121	668.4060	5.524017		
Corrected Total	131	4583.574			

Root MSE	2.35032	R-Square	0.85417
Dependent Mean	44.09580	Adj R-Sq	0.84212
Coeff Var	5.33004		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	8.379836	14.01555	0.60	0.5510	Intercept
MaxCDD	1	0.681442	0.035137	19.39	<.0001	MaxTemp-65
CumMinHDD	1	0.180979	0.020277	8.93	<.0001	50-CumMinTemp
Econ_HS_I	1	25.77805	12.82951	2.01	0.0467	Hampshire Empl/HH
d2007m5m10	1	-3.17387	1.110582	-2.86	0.0050	May07-Jun07
d2006m9m10	1	-6.62421	1.749830	-3.79	0.0002	Sep06-Oct06
d2008m2on	1	-2.75519	0.602343	-4.57	<.0001	Feb08on
Apr	1	-4.28678	0.780285	-5.49	<.0001	Apr
May	1	-6.49957	0.780249	-8.33	<.0001	May
Oct2001	1	-7.72374	2.384384	-3.24	0.0015	Oct2001
Sep2002	1	-10.3703	2.393248	-4.33	<.0001	Sep2002

Durbin-Watson	1.827581
Number of Observations	132
First-Order Autocorrelation	0.080351

2010 PSA Forecast - Western (Mass)
PALMER MODEL

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Palmer_C
Dependent Variable	Palmer_CP
Label	Palmer Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	62518.51	4809.116	86.52	<.0001
Error	166	9226.804	55.58315		
Corrected Total	179	71745.31			

Root MSE	7.45541	R-Square	0.87140
Dependent Mean	143.82368	Adj R-Sq	0.86132
Coeff Var	5.18372		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-129.612	32.43459	-4.00	<.0001	Intercept
MaxCDDTrend	1	0.046714	0.008280	5.64	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	2.209687	0.277230	7.97	<.0001	CumMinTemp-60
MinHDD	1	0.745789	0.046906	15.90	<.0001	50-MinTemp
Econ_HD_I	1	247.7066	32.60478	7.60	<.0001	Hampden Empl/HH
Apr	1	-8.96512	2.265484	-3.96	0.0001	Apr
May	1	-14.0826	2.353630	-5.98	<.0001	May
Summer2002on	1	11.48262	2.397969	4.79	<.0001	Summer2002on
Apr2000	1	-17.7866	7.817488	-2.28	0.0242	Apr2000
Apr2001	1	-19.7753	7.845289	-2.52	0.0127	Apr2001
Mar2002	1	-27.8292	7.558016	-3.68	0.0003	Mar2002
Oct2005	1	-23.9884	7.589293	-3.16	0.0019	Oct2005
Sep2004on	1	10.31257	1.339316	7.70	<.0001	Sep2004on
d2009on	1	-17.1150	2.495432	-6.86	<.0001	d2009on

Durbin-Watson	1.709034
Number of Observations	180
First-Order Autocorrelation	0.144732

The AUTOREG Procedure

Dependent Variable SouthBerkshire_CP
South Berkshire Coincident Peak

Ordinary Least Squares Estimates

SSE	1354.54022	DFE	169
MSE	8.01503	Root MSE	2.83108
SBC	931.227289	AIC	896.104763
Regress R-Square	0.8073	Total R-Square	0.8073
Durbin-Watson	1.5250		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-77.4544	15.8357	-4.89	<.0001	
MaxCDDTrend	1	0.0157	0.002953	5.32	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	0.4605	0.1004	4.59	<.0001	CumMinTemp-60
CumMinHDD	1	0.3498	0.0191	18.31	<.0001	50-CumMinTemp
Econ_BK_I	1	109.5480	15.9219	6.88	<.0001	Berkshire Empl/HH
Apr	1	-4.2860	0.8073	-5.31	<.0001	Apr
May	1	-2.7539	0.8881	-3.10	0.0023	May
Dec1998	1	7.0781	2.8502	2.48	0.0140	Dec1998
Mar1999	1	-6.1113	2.8537	-2.14	0.0337	Mar1999
Mar2000	1	-9.0304	2.8527	-3.17	0.0018	Mar2000
Summer2002on	1	4.2666	0.8980	4.75	<.0001	Summer2002on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	7.5252	1.000000	| |********************|
1	1.4921	0.198278	| |**** |

Preliminary MSE 7.2294

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.198278	0.075620	-2.62

2010 PSA Forecast - Western (Mass)
SOUTH BERKSHIRE MODEL

The AUTOREG Procedure

Yule-Walker Estimates

SSE	1291.23451	DFE	168
MSE	7.68592	Root MSE	2.77235
SBC	927.844953	AIC	889.529471
Regress R-Square	0.7827	Total R-Square	0.8163
Durbin-Watson	1.7968		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-75.4740	19.1336	-3.94	0.0001	
MaxCDDTrend	1	0.0165	0.003031	5.46	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	0.4290	0.1030	4.17	<.0001	CumMinTemp-60
CumMinHDD	1	0.3543	0.0203	17.48	<.0001	50-CumMinTemp
Econ_BK_I	1	107.4201	19.2266	5.59	<.0001	Berkshire Empl/HH
Apr	1	-3.7906	0.7925	-4.78	<.0001	Apr
May	1	-2.5300	0.8776	-2.88	0.0045	May
Dec1998	1	7.0546	2.7321	2.58	0.0107	Dec1998
Mar1999	1	-5.8981	2.7462	-2.15	0.0332	Mar1999
Mar2000	1	-9.5019	2.7392	-3.47	0.0007	Mar2000
Summer2002on	1	4.2827	0.9281	4.61	<.0001	Summer2002on

2010 PSA Forecast - Merrimack and North Shore
Merrimack Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Merrimac
Dependent Variable	Merrimack_CP
Label	Merrimack Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	2450734	306341.8	109.12	<.0001
Error	170	477254.7	2807.381		
Corrected Total	178	2927989			

Root MSE	52.98472	R-Square	0.83700
Dependent Mean	763.73539	Adj R-Sq	0.82933
Coeff Var	6.93758		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-1006.51	164.6196	-6.11	<.0001	Intercept
MaxCDD	1	6.977868	0.785616	8.88	<.0001	MaxTemp-65
CumMinCDD	1	13.45699	1.591240	8.46	<.0001	CumMinTemp-60
CumMinHDD	1	4.564525	0.414664	11.01	<.0001	50-CumMinTemp
Econ_ES_I	1	1485.129	153.8279	9.65	<.0001	Essex Empl/HH
May2001	1	-207.168	53.92829	-3.84	0.0002	May2001
Oct2001	1	-121.319	53.99494	-2.25	0.0259	Oct2001
Sep2002	1	111.0773	53.49762	2.08	0.0394	Sep2002
May2003	1	-106.973	54.05309	-1.98	0.0494	May2003

2010 PSA Forecast - Merrimack and North Shore
Essex Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Essex_CP
Dependent Variable	Essex_CP
Label	Essex Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	98274.57	12284.32	90.64	<.0001
Error	170	23040.92	135.5348		
Corrected Total	178	121315.5			

Root MSE	11.64194	R-Square	0.81007
Dependent Mean	176.25600	Adj R-Sq	0.80114
Coeff Var	6.60513		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-175.580	37.50345	-4.68	<.0001	Intercept
MaxCDDTrend	1	0.077269	0.009213	8.39	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	2.596249	0.303082	8.57	<.0001	CumMinTemp-60
CumMinHDD	1	1.405483	0.090823	15.47	<.0001	50-CumMinTemp
Econ_ES_I	1	295.8256	35.20401	8.40	<.0001	Essex Empl/HH
Apr	1	-13.9068	3.419824	-4.07	<.0001	Apr
May	1	-20.2877	3.527418	-5.75	<.0001	May
Apr2004	1	56.44211	12.07313	4.68	<.0001	Apr2004
d2009on	1	-15.6430	3.651187	-4.28	<.0001	d2009on

Durbin-Watson	1.579592
Number of Observations	179
First-Order Autocorrelation	0.205597

2010 PSA Forecast - Merrimack and North Shore
Suburban Model

The AUTOREG Procedure

Dependent Variable Suburban_CP
Suburban Coincident Peak

Ordinary Least Squares Estimates

SSE	100446.294	DFE	169
MSE	594.35677	Root MSE	24.37943
SBC	1692.92254	AIC	1661.04868
Regress R-Square	0.7831	Total R-Square	0.7831
Durbin-Watson	1.0495		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	65.5831	67.6781	0.97	0.3339	
MaxCDD	1	3.2489	0.3885	8.36	<.0001	MaxTemp-65
CumMinCDD	1	4.5305	0.8258	5.49	<.0001	CumMinTemp-60
CumMinHDD	1	2.5458	0.1957	13.01	<.0001	50-CumMinTemp
Econ_MS_I	1	185.7260	64.1468	2.90	0.0043	Middlesex Empl/HH
May	1	-40.3584	7.5461	-5.35	<.0001	May
Sep1995	1	-73.0107	24.9008	-2.93	0.0038	Sep1995
Jun1998	1	-64.8550	24.5646	-2.64	0.0091	Jun1998
Oct2001	1	-64.2498	25.0575	-2.56	0.0112	Oct2001
Apr2002	1	-79.3201	26.1491	-3.03	0.0028	Apr2002

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	561.2	1.000000	| |********************|
1	266.3	0.474585	| |********* |

Preliminary MSE 434.8

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.474585	0.067910	-6.99

2010 PSA Forecast - Merrimack and North Shore
Suburban Model

The AUTOREG Procedure

Yule-Walker Estimates

SSE	75294.2671	DFE	168
MSE	448.18016	Root MSE	21.17027
SBC	1646.97701	AIC	1611.91577
Regress R-Square	0.7902	Total R-Square	0.8374
Durbin-Watson	2.1080		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	69.9260	107.6831	0.65	0.5170	
MaxCDD	1	2.6307	0.3408	7.72	<.0001	MaxTemp-65
CumMinCDD	1	5.2157	0.7061	7.39	<.0001	CumMinTemp-60
CumMinHDD	1	2.4105	0.1898	12.70	<.0001	50-CumMinTemp
Econ_MS_I	1	186.4524	102.2797	1.82	0.0701	Middlesex Empl/HH
May	1	-33.7160	5.7117	-5.90	<.0001	May
Sep1995	1	-66.6319	19.3145	-3.45	0.0007	Sep1995
Jun1998	1	-47.1183	19.2799	-2.44	0.0156	Jun1998
Oct2001	1	-51.1390	19.4861	-2.62	0.0095	Oct2001
Apr2002	1	-56.3648	20.8472	-2.70	0.0076	Apr2002

2010 PSA Forecast - SouthEast (Mass)
Attleboro Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Attlebor
Dependent Variable	Attleboro_CP
Label	Attleboro Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	251121.2	22829.20	177.11	<.0001
Error	167	21525.68	128.8963		
Corrected Total	178	272646.9			

Root MSE	11.35325	R-Square	0.92105
Dependent Mean	237.52089	Adj R-Sq	0.91585
Coeff Var	4.77990		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-290.007	37.46434	-7.74	<.0001	Intercept
MaxCDDTrend	1	0.127516	0.011354	11.23	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	2.923659	0.345208	8.47	<.0001	CumMinTemp-60
CumMinHDD	1	1.093597	0.091893	11.90	<.0001	55-Min Temp,1,2
Econ_BS_I	1	447.7196	34.71374	12.90	<.0001	Bristol Empl/HH
Apr	1	-17.3962	3.253342	-5.35	<.0001	Apr
May	1	-11.3738	3.733222	-3.05	0.0027	May
Sep1999	1	-67.1388	11.77208	-5.70	<.0001	Sep1999
Jan2003	1	-28.0832	11.52412	-2.44	0.0159	Jan2003
May2003	1	-30.5255	11.79883	-2.59	0.0105	May2003
Summer2002on	1	26.51887	3.589205	7.39	<.0001	Summer2002on
d2009on	1	-8.17937	3.624411	-2.26	0.0253	d2009on

Durbin-Watson	1.77018
Number of Observations	179
First-Order Autocorrelation	0.098029

The AUTOREG Procedure

Dependent Variable FallRiver_CP
FallRiver Coincident Peak

Ordinary Least Squares Estimates

SSE	11433.5914	DFE	168
MSE	68.05709	Root MSE	8.24967
SBC	1309.13083	AIC	1274.06959
Regress R-Square	0.8503	Total R-Square	0.8503
Durbin-Watson	1.3015		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-101.7899	25.8233	-3.94	0.0001	
MaxCDD	1	0.5926	0.1267	4.68	<.0001	MaxTemp-65
CumMinCDD	1	2.3310	0.2876	8.11	<.0001	CumMinTemp-60
CumMinHDD	1	0.4969	0.0697	7.12	<.0001	55-Min Temp,1,2
Econ_BS_I	1	201.1435	23.7766	8.46	<.0001	Bristol Empl/HH
Apr	1	-8.3193	2.4389	-3.41	0.0008	Apr
May	1	-6.7539	2.6852	-2.52	0.0128	May
Jun1997	1	-17.0133	8.3797	-2.03	0.0439	Jun1997
Oct1999	1	28.9325	8.4286	3.43	0.0008	Oct1999
Apr2000	1	21.4730	8.5703	2.51	0.0132	Apr2000
Summer2002on	1	16.7931	2.2787	7.37	<.0001	Summer2002on

Estimates of Autocorrelations

```
Lag   Covariance   Correlation   -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

  0     63.8748      1.000000    |                    |********************|
  1     22.1420      0.346647    |                    |*******             |
```

Preliminary MSE 56.1994

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.346647	0.072584	-4.78

2010 PSA Forecast - SouthEast (Mass)
FallRiver Model

The AUTOREG Procedure

Yule-Walker Estimates

SSE	9982.39574	DFE	167
MSE	59.77482	Root MSE	7.73142
SBC	1290.26359	AIC	1252.01496
Regress R-Square	0.8219	Total R-Square	0.8693
Durbin-Watson	2.0297		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-97.5478	36.0820	-2.70	0.0076	
MaxCDD	1	0.6442	0.1160	5.55	<.0001	MaxTemp-65
CumMinCDD	1	2.2415	0.2710	8.27	<.0001	CumMinTemp-60
CumMinHDD	1	0.5089	0.0698	7.29	<.0001	55-Min Temp,1,2
Econ_BS_I	1	196.6225	33.1937	5.92	<.0001	Bristol Empl/HH
Apr	1	-7.0918	2.2433	-3.16	0.0019	Apr
May	1	-5.4504	2.4958	-2.18	0.0304	May
Jun1997	1	-16.9185	7.4419	-2.27	0.0243	Jun1997
Oct1999	1	25.6127	7.4509	3.44	0.0007	Oct1999
Apr2000	1	21.5758	7.6117	2.83	0.0052	Apr2000
Summer2002on	1	17.6899	2.5023	7.07	<.0001	Summer2002on

2010 PSA Forecast - SouthEast (Mass)
Marlboro Model

The AUTOREG Procedure

Dependent Variable Marlboro_CP
Marlboro Coincident Peak

Ordinary Least Squares Estimates

SSE	38695.0401	DFE	173
MSE	223.67075	Root MSE	14.95563
SBC	1501.42279	AIC	1482.29848
Regress R-Square	0.7884	Total R-Square	0.7884
Durbin-Watson	1.0907		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-135.4142	41.2861	-3.28	0.0013	
MaxCDDTrend	1	0.1321	0.0136	9.71	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	1.8144	0.3805	4.77	<.0001	CumMinTemp-60
CumMinHDD	1	0.9798	0.1112	8.81	<.0001	55-Min Temp,1,2
Econ_MS_I	1	271.1762	39.5148	6.86	<.0001	Middlesex Empl/HH
Summer2002on	1	20.2467	4.6235	4.38	<.0001	Summer2002on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	216.2	1.000000	| |********************|
1	98.4669	0.455499	| |********* |

Preliminary MSE 171.3

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.455499	0.067880	-6.71

2010 PSA Forecast - SouthEast (Mass)
Marlboro Model

The AUTOREG Procedure

Yule-Walker Estimates

SSE	29906.9403	DFE	172
MSE	173.87756	Root MSE	13.18626
SBC	1460.91712	AIC	1438.60542
Regress R-Square	0.7169	Total R-Square	0.8364
Durbin-Watson	2.0433		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-139.7281	64.8645	-2.15	0.0326	
MaxCDDTrend	1	0.1188	0.0123	9.64	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	1.6611	0.3766	4.41	<.0001	CumMinTemp-60
CumMinHDD	1	0.8019	0.1094	7.33	<.0001	55-Min Temp,1,2
Econ_MS_I	1	279.9262	61.8106	4.53	<.0001	Middlesex Empl/HH
Summer2002on	1	18.7124	4.3497	4.30	<.0001	Summer2002on

2010 PSA Forecast - SouthEast (Mass)
Uxbridge Model

The AUTOREG Procedure

Dependent Variable Uxbridge_CP
Uxbridge Coincident Peak

Ordinary Least Squares Estimates

SSE	10929.6332	DFE	167
MSE	65.44691	Root MSE	8.08993
SBC	1306.24928	AIC	1268.00065
Regress R-Square	0.8696	Total R-Square	0.8696
Durbin-Watson	1.2325		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-275.4496	26.5431	-10.38	<.0001	
MaxCDDTrend	1	0.0650	0.008165	7.96	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	0.8065	0.2488	3.24	0.0014	CumMinTemp-60
CumMinHDD	1	0.8074	0.0659	12.26	<.0001	55-Min Temp,1,2
Econ_BS_I	1	334.1874	24.5959	13.59	<.0001	Bristol Empl/HH
Apr	1	-5.6193	2.3340	-2.41	0.0171	Apr
May	1	-9.8146	2.6380	-3.72	0.0003	May
Sep1998	1	-16.4543	8.1893	-2.01	0.0461	Sep1998
Oct2001	1	-21.0390	8.2849	-2.54	0.0120	Oct2001
Sep2002	1	18.0645	8.4170	2.15	0.0333	Sep2002
Summer2002on	1	19.0053	2.5740	7.38	<.0001	Summer2002on
d2009on	1	6.7589	2.5881	2.61	0.0098	d2009on

Estimates of Autocorrelations

```
Lag   Covariance   Correlation   -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

  0      61.0594      1.000000   |                    |********************|
  1      22.5139      0.368720   |                    |*******             |
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Preliminary MSE 52.7581

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.368720	0.072146	-5.11

2010 PSA Forecast - SouthEast (Mass)
Uxbridge Model

The AUTOREG Procedure

Yule-Walker Estimates

SSE	9134.29201	DFE	166
MSE	55.02586	Root MSE	7.41794
SBC	1279.59014	AIC	1238.15412
Regress R-Square	0.8231	Total R-Square	0.8910
Durbin-Watson	2.0052		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-287.7138	36.8245	-7.81	<.0001	
MaxCDDTrend	1	0.0519	0.007630	6.80	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	0.9141	0.2432	3.76	0.0002	CumMinTemp-60
CumMinHDD	1	0.7011	0.0649	10.81	<.0001	55-Min Temp,1,2
Econ_BS_I	1	347.9031	33.9768	10.24	<.0001	Bristol Empl/HH
Apr	1	-5.6852	2.0897	-2.72	0.0072	Apr
May	1	-9.9418	2.3941	-4.15	<.0001	May
Sep1998	1	-14.7110	7.0155	-2.10	0.0375	Sep1998
Oct2001	1	-17.9999	7.0596	-2.55	0.0117	Oct2001
Sep2002	1	21.2363	7.2510	2.93	0.0039	Sep2002
Summer2002on	1	19.4921	2.5732	7.58	<.0001	Summer2002on
d2009on	1	8.8082	3.4249	2.57	0.0110	d2009on

2010 PSA Forecast - SouthShore (Mass)
Brockton Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Brockton
Dependent Variable	Brockton_CP
Label	Brockton Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	690195.1	86274.38	163.99	<.0001
Error	170	89437.83	526.1049		
Corrected Total	178	779632.9			

Root MSE	22.93698	R-Square	0.88528
Dependent Mean	365.83002	Adj R-Sq	0.87988
Coeff Var	6.26985		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	15.39675	46.26792	0.33	0.7397	Intercept
MaxCDD	1	2.222155	0.339412	6.55	<.0001	MaxTemp-65
CumMinCDD	1	4.621940	0.803776	5.75	<.0001	CumMinTemp-60
CumMinHDDTrend	1	0.112465	0.012951	8.68	<.0001	(50-CumMinTemp)*T
Econ_PL_I	1	257.2763	42.57613	6.04	<.0001	Plymouth Empl/HH
Apr	1	-25.1419	6.786518	-3.70	0.0003	Apr
May	1	-34.2757	7.397435	-4.63	<.0001	May
Apr1996	1	-62.8556	24.06057	-2.61	0.0098	Apr1996
Summer2002on	1	73.58489	6.627623	11.10	<.0001	Summer2002on

Durbin-Watson	1.526334
Number of Observations	179
First-Order Autocorrelation	0.231585

2010 PSA Forecast - SouthShore (Mass)
Weymouth Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Weymouth
Dependent Variable	Weymouth_CP
Label	Weymouth Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	131074.9	18724.99	95.63	<.0001
Error	171	33483.89	195.8122		
Corrected Total	178	164558.8			

Root MSE	13.99329	R-Square	0.79652
Dependent Mean	203.43504	Adj R-Sq	0.78819
Coeff Var	6.87851		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-28.0173	41.49259	-0.68	0.5004	Intercept
MaxCDD	1	1.687683	0.210055	8.03	<.0001	MaxTemp-65
CumMinCDD	1	3.476784	0.491540	7.07	<.0001	CumMinTemp-60
CumMinHDD	1	1.578320	0.116662	13.53	<.0001	50-CumMinTemp
Econ_NF_I	1	171.7782	38.50785	4.46	<.0001	Norfolk Empl/HH
Apr	1	-9.73750	4.023498	-2.42	0.0166	Apr
May	1	-18.7710	4.530887	-4.14	<.0001	May
Oct2001	1	-51.4356	14.36075	-3.58	0.0004	Oct2001

Durbin-Watson	1.656654
Number of Observations	179
First-Order Autocorrelation	0.164982

2009 PSA Forecast - Narragansett
Blackstone Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Blacksto
Dependent Variable	Blackstone_CP
Label	Blackstone Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	195536.5	24442.07	130.23	<.0001
Error	170	31905.14	187.6773		
Corrected Total	178	227441.7			

Root MSE	13.69954	R-Square	0.85972
Dependent Mean	225.01791	Adj R-Sq	0.85312
Coeff Var	6.08820		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	78.64671	34.55812	2.28	0.0241	Intercept
MaxCDD	1	2.698329	0.149357	18.07	<.0001	MaxTemp-65
CumMinHDD	1	0.685435	0.114542	5.98	<.0001	50-CumMinTemp
Econ_RI_I	1	108.0820	33.07845	3.27	0.0013	Rhode Island Empl/HH
Apr	1	-22.6424	3.876606	-5.84	<.0001	Apr
May	1	-26.6341	4.037786	-6.60	<.0001	May
May1996	1	-43.9030	14.44033	-3.04	0.0027	May1996
Summer2005on	1	29.19717	4.301313	6.79	<.0001	Summer2005on
d2009on	1	-26.1796	4.200486	-6.23	<.0001	d2009on

Durbin-Watson	1.778981
Number of Observations	179
First-Order Autocorrelation	0.102238

2009 PSA Forecast - Narragansett
Newport Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Newport_
Dependent Variable	Newport_CP
Label	Newport Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	22705.25	3784.208	73.82	<.0001
Error	172	8816.812	51.26053		
Corrected Total	178	31522.06			

Root MSE	7.15965	R-Square	0.72030
Dependent Mean	94.92626	Adj R-Sq	0.71054
Coeff Var	7.54232		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-96.5098	17.59696	-5.48	<.0001	Intercept
MaxCDD	1	0.852161	0.074048	11.51	<.0001	MaxTemp-65
CumMinHDD	1	0.516245	0.059591	8.66	<.0001	50-CumMinTemp
Econ_RI_I	1	169.9511	16.85652	10.08	<.0001	Rhode Island Empl/HH
Apr	1	-9.80658	2.023952	-4.85	<.0001	Apr
May	1	-17.6273	2.016500	-8.74	<.0001	May
Aug1995	1	-27.3839	7.316735	-3.74	0.0002	Aug1995

Durbin-Watson	1.81858
Number of Observations	179
First-Order Autocorrelation	0.084224

2009 PSA Forecast - Narragansett
Providence Model

The AUTOREG Procedure

Dependent Variable Providence_CP
Providence Coincident Peak

Ordinary Least Squares Estimates

SSE	58111.7861	DFE	159
MSE	365.48293	Root MSE	19.11761
SBC	1479.32208	AIC	1457.53817
Regress R-Square	0.8728	Total R-Square	0.8728
Durbin-Watson	1.7964		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-10.0509	55.5603	-0.18	0.8567	
MaxCDD	1	4.0264	0.2157	18.66	<.0001	MaxTemp-65
CumMinHDD	1	1.1122	0.1663	6.69	<.0001	50-CumMinTemp
Econ_RI_I	1	268.5778	53.2419	5.04	<.0001	Rhode Island Empl/HH
Apr	1	-27.9817	5.6261	-4.97	<.0001	Apr
May	1	-30.6471	5.6730	-5.40	<.0001	May
JulAug2002on	1	45.4162	5.8246	7.80	<.0001	JulAug2002on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	350.1	1.000000	| |********************|
1	33.3905	0.095382	| |** |

Preliminary MSE 346.9

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.095382	0.079193	-1.20

The AUTOREG Procedure

Yule-Walker Estimates

SSE	57519.6165	DFE	158
MSE	364.04821	Root MSE	19.08005
SBC	1482.76108	AIC	1457.86517
Regress R-Square	0.8595	Total R-Square	0.8741
Durbin-Watson	1.9679		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-10.7084	60.9680	-0.18	0.8608	
MaxCDD	1	3.9719	0.2182	18.21	<.0001	MaxTemp-65
CumMinHDD	1	1.0772	0.1702	6.33	<.0001	50-CumMinTemp
Econ_RI_I	1	270.3500	58.3505	4.63	<.0001	Rhode Island Empl/HH
Apr	1	-27.9757	5.6091	-4.99	<.0001	Apr
May	1	-32.3407	5.6211	-5.75	<.0001	May
JulAug2002on	1	45.1469	5.9006	7.65	<.0001	JulAug2002on

2009 PSA Forecast - Narragansett
Western NECo Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	WesternN
Dependent Variable	WesternNeco_CP
Label	Western NECo Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	1675100	279183.4	129.79	<.0001
Error	171	367836.4	2151.090		
Corrected Total	177	2042937			

Root MSE	46.37985	R-Square	0.81995
Dependent Mean	598.39518	Adj R-Sq	0.81363
Coeff Var	7.75071		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-372.467	118.1323	-3.15	0.0019	Intercept
MaxCDDTrend	1	0.553299	0.031980	17.30	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	1.991626	0.357074	5.58	<.0001	50-CumMinTemp
Econ_RI_I	1	847.1759	115.0450	7.36	<.0001	Rhode Island Empl/HH
Apr	1	-79.8479	12.91201	-6.18	<.0001	Apr
May	1	-112.402	13.09086	-8.59	<.0001	May
Oct2001	1	-127.451	46.75219	-2.73	0.0071	Oct2001

Durbin-Watson	1.547867
Number of Observations	178
First-Order Autocorrelation	0.221097

The AUTOREG Procedure

Dependent Variable Eastern_CP
Eastern Coincident Peak

Ordinary Least Squares Estimates

SSE	5690.07982	DFE	171
MSE	33.27532	Root MSE	5.76848
SBC	1168.65686	AIC	1143.15778
Regress R-Square	0.7676	Total R-Square	0.7676
Durbin-Watson	1.3008		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	43.6027	6.5073	6.70	<.0001	
MaxCDDTrend	1	0.0364	0.005021	7.25	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.1047	0.0366	2.86	0.0047	50-CumMinTemp
Econ_RK_I	1	19.7273	8.5119	2.32	0.0217	Rockingham Empl/HH
d1997m2	1	-17.8942	5.8634	-3.05	0.0026	Feb97
Apr	1	-11.0597	1.6001	-6.91	<.0001	Apr
May	1	-8.9635	1.7058	-5.25	<.0001	May
Summer2002on	1	13.4733	1.7989	7.49	<.0001	Summer2002on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	31.7882	1.000000	| |********************|
1	11.1439	0.350567	| |******* |

Preliminary MSE 27.8815

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.350567	0.071829	-4.88

2009 PSA Forecast - Granite State
Eastern Model

The AUTOREG Procedure

Yule-Walker Estimates

SSE	4931.21462	DFE	170
MSE	29.00714	Root MSE	5.38583
SBC	1148.46942	AIC	1119.78295
Regress R-Square	0.7139	Total R-Square	0.7986
Durbin-Watson	1.8784		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	44.5022	9.0092	4.94	<.0001	
MaxCDDTrend	1	0.0403	0.004915	8.20	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.1515	0.0398	3.80	0.0002	50-CumMinTemp
Econ_RK_I	1	16.6685	11.4973	1.45	0.1490	Rockingham Empl/HH
d1997m2	1	-16.1373	5.1364	-3.14	0.0020	Feb97
Apr	1	-9.8605	1.4880	-6.63	<.0001	Apr
May	1	-8.7905	1.5915	-5.52	<.0001	May
Summer2002on	1	13.6615	1.8081	7.56	<.0001	Summer2002on

2009 PSA Forecast - Granite State
Western Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Western_
Dependent Variable	Western_CP
Label	Western Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	14499.67	1318.152	106.02	<.0001
Error	167	2076.296	12.43291		
Corrected Total	178	16575.97			

Root MSE	3.52603	R-Square	0.87474
Dependent Mean	66.69240	Adj R-Sq	0.86649
Coeff Var	5.28701		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-5.82422	6.483123	-0.90	0.3703	Intercept
MaxCDDTrend	1	0.033523	0.002897	11.57	<.0001	(MaxTemp-65)*Trend
MaxHDDTrend	1	0.015194	0.002039	7.45	<.0001	(55-MaxTemp)*Trend
Econ_GR_I	1	56.08533	5.874346	9.55	<.0001	Grafton Empl/HH
Apr	1	-7.23146	0.981640	-7.37	<.0001	Apr
May	1	-5.13420	1.054402	-4.87	<.0001	May
Mar1999	1	-10.1493	3.544744	-2.86	0.0047	Mar1999
May1999	1	-11.5896	3.683699	-3.15	0.0020	May1999
Jun1999	1	-11.3112	3.555780	-3.18	0.0017	Jun1999
Mar2000	1	-9.53543	3.549295	-2.69	0.0079	Mar2000
Oct2001	1	-7.41126	3.554247	-2.09	0.0386	Oct2001
Summer2005on	1	6.880619	1.216853	5.65	<.0001	Summer2005on

Durbin-Watson	1.86163
Number of Observations	179
First-Order Autocorrelation	0.066206

2009 PSA Forecast - Nantucket
Nantucket MODEL

The AUTOREG Procedure

Dependent Variable Nantucket_CP
Nantucket Coincident Peak

Ordinary Least Squares Estimates

SSE	950.628929	DFE	170
MSE	5.59193	Root MSE	2.36473
SBC	862.297491	AIC	830.367922
Regress R-Square	0.7719	Total R-Square	0.7719
Durbin-Watson	1.0115		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-34.3411	7.0804	-4.85	<.0001	
MaxCDDTrend	1	0.0171	0.004212	4.06	<.0001	(MaxTemp-65)*Trend
CumMinHDDTrend	1	0.0115	0.001236	9.34	<.0001	(50-CumMinTemp)*Trend
Econ_MA_I	1	4.8312	0.6508	7.42	<.0001	Mass Empl/HH
Mar	1	-1.8087	0.6652	-2.72	0.0072	Mar
Apr	1	-2.4312	0.6600	-3.68	0.0003	Apr
Jul	1	5.0458	0.8367	6.03	<.0001	Jul
Aug	1	7.6059	0.8794	8.65	<.0001	Aug
Sep	1	2.4629	0.8081	3.05	0.0027	Sep
Summer2005on	1	3.0757	0.8679	3.54	0.0005	Summer2005on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	5.2813	1.000000	| |********************|
1	2.6088	0.493971	| |********** |

Preliminary MSE 3.9926

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.493971	0.066883	-7.39

2009 PSA Forecast - Nantucket
Nantucket MODEL

The AUTOREG Procedure

Yule-Walker Estimates

SSE	706.52991	DFE	169
MSE	4.18065	Root MSE	2.04466
SBC	814.353684	AIC	779.231159
Regress R-Square	0.7382	Total R-Square	0.8305
Durbin-Watson	2.0348		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-33.4841	11.5523	-2.90	0.0042	
MaxCDDTrend	1	0.0151	0.003539	4.28	<.0001	(MaxTemp-65)*Trend
CumMinHDDTrend	1	0.0121	0.001337	9.02	<.0001	(50-CumMinTemp)*Trend
Econ_MA_I	1	4.7375	1.0570	4.48	<.0001	Mass Empl/HH
Mar	1	-1.1916	0.5336	-2.23	0.0269	Mar
Apr	1	-1.9921	0.5318	-3.75	0.0002	Apr
Jul	1	5.0057	0.6325	7.91	<.0001	Jul
Aug	1	7.8278	0.7495	10.44	<.0001	Aug
Sep	1	2.9348	0.6592	4.45	<.0001	Sep
Summer2005on	1	3.7085	0.8694	4.27	<.0001	Summer2005on

Appendix J

2010 Power Supply Area Forecast

Weather Data

Energy Portfolio Management
Electric Load Forecasting

April 1, 2010

Appendix J

Contents

Boston Weather Station

Normal Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**17**	**5**	**27**	**13**	**31**	**15**
Feb	21	7	34	19	37	24
Mar	29	16	41	28	44	32
Apr	40	31	58	44	62	47
May	87	63	75	53	69	53
Jun	92	71	85	67	81	63
JUL	92	75	89	69	84	67
Aug	**94**	**76**	**93**	**76**	**93**	**76**
Sep	86	69	80	63	75	59
Oct	47	34	51	38	52	40
Nov	35	26	46	33	45	37
Dec	22	12	36	23	40	28

Extreme Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**8**	**-5**	**8**	**-4**	**40**	**8**
Feb	11	-2	28	9	31	13
Mar	22	7	33	19	37	26
Apr	34	19	44	33	47	34
May	92	71	89	60	74	58
Jun	97	75	91	72	92	69
JUL	97	79	94	73	92	73
Aug	**101**	**79**	**97**	**73**	**92**	**73**
Sep	94	75	89	68	82	65
Oct	39	30	49	35	48	41
Nov	29	17	40	28	28	31
Dec	9	-3	29	17	36	18

Worcester Weather Station

Normal Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	**Temperature**	**Temperature**	**Temperature**	**Temperature**	**Temperature**	**Temperature**
JAN	**11**	**-3**	**25**	**4**	**29**	**10**
Feb	14	0	21	7	27	10
Mar	24	9	33	12	33	14
Apr	36	24	44	26	42	27
May	84	61	84	58	81	55
Jun	87	67	85	65	82	62
JUL	86	70	84	68	80	66
Aug	**89**	**65**	**87**	**66**	**85**	**66**
Sep	82	66	80	64	78	61
Oct	42	29	43	27	46	29
Nov	29	18	33	21	36	25
Dec	17	4	22	9	23	14

Extreme Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	**Temperature**	**Temperature**	**Temperature**	**Temperature**	**Temperature**	**Temperature**
JAN	**1**	**-10**	**15**	**-3**	**19**	**3**
Feb	5	-9	12	-2	18	1
Mar	15	-1	24	2	24	4
Apr	29	15	37	17	35	18
May	89	69	89	66	86	63
Jun	91	71	89	69	86	66
JUL	92	73	90	72	86	68
Aug	**94**	**73**	**91**	**72**	**89**	**70**
Sep	88	72	86	70	84	67
Oct	33	22	34	20	37	22
Nov	24	10	28	13	31	17
Dec	3	-11	8	-6	10	-1

Providence Weather Station

Normal Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**17**	**2**	**29**	**8**	**35**	**13**
Feb	20	6	29	12	34	17
Mar	31	15	35	15	38	15
Apr	42	29	46	30	47	32
May	85	61	82	57	78	54
Jun	91	70	89	68	85	65
JUL	90	73	87	70	84	68
Aug	**93**	**74**	**91**	**74**	**87**	**70**
Sep	86	69	83	67	82	64
Oct	48	31	48	30	51	30
Nov	35	23	41	26	43	30
Dec	23	10	32	14	32	19

Extreme Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**7**	**-9**	**19**	**-3**	**25**	**2**
Feb	13	-4	22	2	27	7
Mar	23	7	27	7	30	7
Apr	37	21	41	22	42	24
May	93	69	90	65	86	62
Jun	95	73	93	71	89	68
JUL	98	77	95	74	92	72
Aug	**99**	**78**	**97**	**78**	**93**	**74**
Sep	93	73	90	71	89	68
Oct	39	24	39	23	42	23
Nov	30	15	36	18	38	22
Dec	9	-3	18	1	18	6

Concord Weather Station

Normal Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**10**	**-12**	**22**	**-4**	**25**	**2**
Feb	15	-12	25	-7	30	0
Mar	24	3	28	8	29	9
Apr	38	20	46	17	44	20
May	88	59	86	56	82	51
Jun	91	66	89	62	84	57
JUL	91	69	90	67	86	65
Aug	**93**	**70**	**91**	**64**	**88**	**64**
Sep	87	64	86	63	82	61
Oct	44	21	44	18	47	20
Nov	31	11	38	11	41	15
Dec	16	-6	25	0	25	7

Extreme Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**0**	**-26**	**12**	**-18**	**15**	**-12**
Feb	5	-23	15	-18	20	-11
Mar	18	-12	22	-7	23	-6
Apr	28	13	36	10	34	13
May	94	64	92	61	88	56
Jun	97	71	95	67	90	62
JUL	97	73	96	71	92	69
Aug	**100**	**76**	**98**	**69**	**95**	**67**
Sep	92	70	91	69	87	67
Oct	35	12	35	9	38	11
Nov	24	0	31	0	34	4
Dec	3	-17	12	-12	12	-4

Massachusetts Electric Company
Historical Peak Day Temperatures - Boston Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1994	**1**	**19**	**19**	**10**	**2**	**45**	**6**	**47**	**4**
1994	2	8	19	17	9	38	18	37	30
1994	3	2	19	30	18	34	19	29	13
1994	4	4	11	50	41	62	39	40	34
1994	5	31	14	85	63	84	60	81	54
1994	6	17	15	93	64	74	55	74	56
1994	***7***	***21***	***14***	***96***	***75***	***94***	***73***	***89***	***68***
1994	8	4	15	91	71	85	71	87	76
1994	9	13	20	83	63	75	57	68	54
1994	10	26	19	57	47	67	49	68	52
1994	11	28	18	65	35	37	22	46	26
1994	12	12	18	30	19	46	33	43	39
1995	1	11	18	20	14	28	20	36	26
1995	**2**	**6**	**19**	**10**	**3**	**26**	**6**	**38**	**25**
1995	3	9	19	60	21	67	43	42	33
1995	4	5	21	31	20	58	28	45	31
1995	5	31	17	88	58	75	60	68	53
1995	6	19	17	95	73	91	68	87	61
1995	***7***	***26***	***14***	***90***	***72***	***78***	***70***	***87***	***73***
1995	8	16	17	90	72	83	69	77	69
1995	9	1	14	88	71	83	61	80	61
1995	10	31	18	49	41	53	38	56	45
1995	11	29	18	35	29	64	36	47	38
1995	**12**	**14**	**18**	**37**	**19**	**29**	**18**	**27**	**17**
1996	1	3	18	30	15	34	24	36	33
1996	2	5	19	18	4	14	4	19	11
1996	3	4	19	31	20	39	23	34	28
1996	4	10	12	37	33	41	33	38	33
1996	5	21	14	90	69	90	53	63	53
1996	6	12	17	86	69	83	69	69	57
1996	7	18	17	88	70	87	73	86	72
1996	***8***	***6***	***15***	***84***	***69***	***83***	***65***	***73***	***63***
1996	9	6	14	82	71	84	70	75	63
1996	10	30	18	55	43	55	43	61	50
1996	11	27	18	32	22	44	32	41	33
1996	12	10	18	40	32	43	29	48	34
1997	**1**	**17**	**18**	**28**	**11**	**50**	**31**	**37**	**24**
1997	2	11	19	32	27	39	26	36	20
1997	3	6	19	43	33	51	35	37	33
1997	4	9	21	34	27	48	34	73	50
1997	5	9	12	49	44	63	43	54	43
1997	6	30	17	91	71	91	68	81	64
1997	***7***	***14***	***17***	***92***	***74***	***89***	***71***	***90***	***69***
1997	8	11	15	87	68	91	68	79	63
1997	9	2	21	82	66	75	66	69	63
1997	10	28	18	48	40	51	46	47	35
1997	11	25	18	38	22	39	29	33	30
1997	12	15	18	36	19	41	21	43	30
1998	1	15	18	35	17	30	20	47	29
1998	2	5	19	34	29	39	34	49	36
1998	**3**	**12**	**19**	**27**	**15**	**32**	**21**	**55**	**30**
1998	4	1	19	61	40	88	63	78	45

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Boston Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1998	5	29	15	89	67	85	59	69	58
1998	6	26	14	88	70	87	69	82	68
1998	***7***	***22***	***17***	***93***	***73***	***90***	***72***	***84***	***69***
1998	8	24	14	92	70	80	65	79	63
1998	9	15	20	80	65	70	59	72	61
1998	10	28	18	63	43	53	39	53	46
1998	11	17	18	47	37	51	40	58	43
1998	12	30	19	40	12	41	36	43	32
1999	**1**	**14**	**18**	**15**	**4**	**44**	**14**	**45**	**19**
1999	2	22	19	25	13	34	26	37	31
1999	3	8	19	29	13	33	16	37	26
1999	4	1	20	56	43	71	42	56	46
1999	5	24	18	65	54	68	52	66	54
1999	6	28	15	93	72	91	73	91	69
1999	***7***	***6***	***14***	***88***	***68***	***97***	***81***	***91***	***75***
1999	8	17	17	89	69	80	62	72	62
1999	9	9	17	83	72	79	72	84	71
1999	10	20	19	53	47	49	35	62	42
1999	11	30	18	37	28	45	36	49	41
1999	12	20	18	52	28	35	24	38	29
2000	**1**	**17**	**18**	**17**	**1**	**40**	**14**	**18**	**1**
2000	2	2	19	29	19	35	27	37	31
2000	3	20	19	39	32	36	26	31	17
2000	4	26	20	41	35	47	39	52	42
2000	5	8	15	84	58	90	50	70	50
2000	6	27	13	90	67	82	69	86	65
2000	7	10	15	86	70	81	65	77	56
2000	***8***	***8***	***14***	***87***	***75***	***88***	***68***	***80***	***64***
2000	9	1	15	86	73	86	69	74	59
2000	10	30	18	43	33	39	34	61	36
2000	11	30	18	42	36	49	41	49	43
2000	**12**	**20**	**19**	**33**	**26**	**38**	**28**	**40**	**32**
2001	1	10	19	26	13	33	24	37	26
2001	2	12	19	28	10	25	15	51	26
2001	3	1	19	29	19	33	23	42	29
2001	4	2	20	41	32	36	34	43	35
2001	5	4	15	89	73	91	70	91	60
2001	6	20	17	90	69	88	68	83	67
2001	7	25	17	94	79	93	73	89	66
2001	***8***	***9***	***15***	***96***	***80***	***85***	***75***	***93***	***76***
2001	9	10	16	86	67	86	65	86	64
2001	10	4	20	83	62	80	53	76	48
2001	11	29	18	49	40	61	42	53	48
2001	**12**	**17**	**18**	**42**	**30**	**38**	**29**	**47**	**33**
2002	1	2	18	38	23	34	24	32	23
2002	2	11	19	53	16	53	25	37	28
2002	3	5	19	32	22	46	26	60	39
2002	4	17	15	93	55	72	45	57	45
2002	5	31	14	82	64	82	60	68	55
2002	6	27	15	91	72	92	68	84	65
2002	7	23	15	96	74	89	67	84	63
2002	***8***	***14***	***14***	***101***	***76***	***98***	***73***	***99***	***65***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Boston Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2002	9	9	17	90	68	88	68	88	68
2002	10	2	20	85	65	79	61	80	60
2002	11	18	18	42	35	37	32	35	30
2002	12	9	19	27	12	41	27	38	20
2003	**1**	**22**	**19**	**18**	**7**	**21**	**10**	**30**	**16**
2003	2	13	19	19	10	32	15	31	17
2003	3	3	19	38	11	41	33	40	24
2003	4	1	19	44	28	38	31	55	35
2003	5	20	14	82	51	75	52	64	39
2003	***6***	***27***	***14***	***93***	***73***	***86***	***73***	***89***	***64***
2003	7	8	17	91	69	81	68	93	78
2003	8	22	15	93	73	90	73	89	69
2003	9	15	20	73	63	76	64	70	58
2003	10	27	18	66	56	63	49	56	33
2003	11	17	18	45	37	47	31	44	32
2003	12	15	18	41	30	38	17	32	19
2004	**1**	**15**	**19**	**8**	**-5**	**8**	**-4**	**40**	**8**
2004	2	3	19	41	23	36	23	35	15
2004	3	16	19	38	27	52	37	43	25
2004	4	1	19	43	39	41	38	40	33
2004	5	12	21	73	57	85	55	65	47
2004	6	9	17	93	70	87	53	66	50
2004	7	22	16	87	69	81	69	87	67
2004	***8***	***30***	***16***	***87***	***66***	***88***	***70***	***91***	***70***
2004	9	9	20	85	69	79	66	84	69
2004	10	19	19	50	47	58	44	57	46
2004	11	9	18	40	28	59	36	66	45
2004	**12**	**20**	**19**	**39**	**6**	**43**	**30**	**37**	**21**
2005	1	18	19	13	4	24	12	31	22
2005	2	1	19	32	15	28	19	36	25
2005	3	9	19	24	11	45	16	46	35
2005	4	4	21	53	40	53	42	49	37
2005	5	25	20	48	41	47	44	52	45
2005	6	13	17	90	75	89	71	88	70
2005	***7***	***27***	***16***	***94***	***71***	***94***	***69***	***83***	***67***
2005	8	5	15	97	71	80	67	87	67
2005	9	14	17	86	65	76	65	91	63
2005	10	7	13	81	64	79	61	73	57
2005	11	23	18	37	26	49	37	58	41
2005	12	14	19	25	10	22	13	40	26
2006	1	16	18	31	22	33	25	63	33
2006	2	27	19	32	10	41	11	59	42
2006	3	2	19	22	7	23	13	28	19
2006	4	5	20	35	23	33	18	28	16
2006	5	31	17	39	33	51	37	52	39
2006	6	19	15	79	54	70	55	84	62
2006	7	18	17	93	72	91	64	85	68
2006	***8***	***2***	***17***	***96***	***71***	***92***	***70***	***85***	***68***
2006	9	19	20	98	78	94	77	80	66
2006	10	4	20	82	63	83	62	77	61
2006	11	28	18	77	58	76	50	68	50
2006	12	8	18	54	39	62	43	58	36

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Boston Weather Station

Mass Electric				Day of Monthly Peak		One Day Prior		Two Days Prior	
Monthly Peak Information				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2007	1	26	19	13	3	28	7	42	25
2007	**2**	**5**	**19**	**19**	**10**	**25**	**15**	**35**	**22**
2007	3	6	19	23	6	39	22	41	30
2007	4	4	20	39	22	44	36	41	38
2007	5	25	16	92	70	80	53	73	50
2007	***6***	***27***	***15***	***96***	***76***	***95***	***67***	***89***	***65***
2007	7	27	15	92	73	92	68	90	66
2007	8	3	15	95	75	94	70	82	71
2007	9	7	17	94	65	78	58	73	59
2007	10	4	20	86	62	70	60	65	50
2007	11	19	18	57	42	50	44	51	41
2007	12	17	19	36	19	43	22	34	17
2008	***1***	***3***	***19***	***14***	***7***	***33***	***10***	***40***	***28***
2008	2	11	19	26	12	43	16	37	23
2008	3	3	19	49	26	41	28	25	11
2008	4	7	20	43	36	42	39	54	39
2008	5	27	14	83	57	80	53	71	55
2008	***6***	***10***	***17***	***95***	***63***	***95***	***66***	***93***	***77***
2008	7	9	15	90	73	90	73	87	69
2008	8	1	16	80	68	80	65	85	68
2008	9	5	15	89	69	88	65	75	61
2008	10	29	19	46	36	54	40	61	46
2008	11	19	19	44	34	61	40	63	33
2008	12	8	19	25	14	37	25	37	27
2009	**1**	**15**	**19**	**17**	**10**	**37**	**14**	**36**	**19**
2009	2	5	19	20	8	26	13	35	24
2009	3	2	19	25	19	30	22	51	32
2009	4	28	16	93	59	64	50	87	52
2009	5	22	16	89	59	92	59	80	52
2009	6	26	13	84	66	74	60	64	56
2009	7	28	17	86	70	87	72	86	70
2009	***8***	***18***	***14***	***95***	***72***	***94***	***72***	***87***	***71***
2009	9	23	20	81	65	76	56	70	51
2009	10	28	19	51	47	52	43	57	45
2009	11	30	18	56	39	54	40	53	42
2009	12	29	19	31	12	42	30	54	36

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Worcester Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1994	**1**	**19**	**19**	**3**	**-7**	**34**	**-2**	**44**	**-1**
1994	2	8	19	8	3	30	10	33	21
1994	3	2	19	28	15	29	10	24	6
1994	4	4	11	52	37	58	35	47	29
1994	5	31	14	77	58	76	54	71	45
1994	6	17	15	87	63	83	62	79	65
1994	***7***	***21***	***14***	***88***	***70***	***87***	***68***	***84***	***64***
1994	8	4	15	83	67	81	68	83	68
1994	9	13	20	76	60	69	48	63	45
1994	10	26	19	52	42	62	43	61	46
1994	11	28	18	59	28	31	17	38	20
1994	12	12	18	24	12	38	23	36	31
1995	1	11	18	13	7	25	13	29	16
1995	**2**	**6**	**19**	**5**	**-4**	**18**	**-1**	**30**	**17**
1995	3	9	19	35	14	58	38	46	35
1995	4	5	21	26	13	53	20	47	28
1995	5	31	17	80	55	68	55	64	48
1995	6	19	17	88	67	84	63	80	56
1995	***7***	***26***	***14***	***84***	***72***	***80***	***69***	***83***	***66***
1995	8	16	17	86	66	80	64	79	66
1995	9	1	14	80	65	81	59	76	56
1995	10	31	18	42	33	47	31	48	38
1995	11	29	18	30	24	57	30	42	30
1995	**12**	**14**	**18**	**19**	**11**	**23**	**10**	**20**	**8**
1996	1	3	18	17	11	28	18	32	27
1996	2	5	19	12	-7	9	-2	14	4
1996	3	4	19	24	11	31	16	27	20
1996	4	10	12	34	30	39	27	36	29
1996	5	21	14	85	61	87	69	81	50
1996	6	12	17	79	68	78	67	72	56
1996	7	18	17	83	65	82	67	80	67
1996	***8***	***6***	***15***	***84***	***68***	***82***	***64***	***79***	***63***
1996	9	6	14	81	67	79	68	80	68
1996	10	30	18	53	39	51	38	59	44
1996	11	27	18	27	17	36	28	37	29
1996	12	10	18	33	21	36	24	36	28
1997	**1**	**17**	**18**	**20**	**4**	**45**	**22**	**33**	**18**
1997	2	11	19	28	21	33	19	34	15
1997	3	6	19	36	29	63	31	32	27
1997	4	9	21	31	22	43	28	70	41
1997	5	9	12	49	41	58	33	47	36
1997	6	30	17	84	63	85	65	81	64
1997	***7***	***14***	***17***	***84***	***68***	***81***	***62***	***82***	***62***
1997	8	11	15	82	63	85	65	79	60
1997	9	2	21	78	62	72	63	77	61
1997	10	28	18	41	33	46	37	44	28
1997	11	25	18	33	16	33	23	29	25
1997	12	15	18	33	12	34	16	33	25
1998	1	15	18	22	13	25	16	43	24
1998	2	5	19	29	24	34	28	41	0
1998	**3**	**12**	**19**	**21**	**9**	**25**	**14**	**53**	**22**
1998	4	1	19	62	37	84	62	79	46

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Worcester Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1998	5	29	15	83	62	80	57	73	54
1998	6	26	14	83	69	82	66	80	66
1998	***7***	***22***	***17***	***85***	***69***	***84***	***66***	***81***	***66***
1998	8	24	14	86	65	76	63	78	61
1998	9	15	20	81	63	66	58	73	59
1998	10	28	18	58	40	50	38	53	41
1998	11	17	18	41	34	46	37	53	39
1998	12	30	19	32	6	36	31	40	32
1999	**1**	**14**	**18**	**10**	**2**	**46**	**12**	**40**	**13**
1999	2	22	19	22	8	31	19	37	26
1999	3	8	19	26	9	25	12	34	23
1999	4	1	20	65	49	69	39	52	41
1999	5	24	18	61	51	62	52	75	56
1999	6	28	15	88	70	89	66	85	64
1999	***7***	***6***	***14***	***90***	***70***	***90***	***73***	***85***	***69***
1999	8	17	17	84	65	78	55	68	59
1999	9	9	17	79	69	76	69	80	70
1999	10	20	19	50	43	50	32	58	37
1999	11	30	18	33	22	40	29	46	36
1999	12	20	18	42	23	31	20	33	23
2000	**1**	**17**	**18**	**11**	**-4**	**36**	**10**	**13**	**-1**
2000	2	2	19	23	14	32	21	33	25
2000	3	20	19	40	27	39	22	30	12
2000	4	26	20	38	32	52	37	49	38
2000	5	8	15	86	64	87	54	72	59
2000	6	27	13	81	63	81	67	83	61
2000	7	10	15	82	67	74	60	74	51
2000	***8***	***8***	***14***	***81***	***68***	***82***	***64***	***74***	***59***
2000	9	1	15	81	69	81	66	74	56
2000	10	30	18	37	29	33	28	61	33
2000	11	30	18	35	30	44	35	44	37
2000	**12**	**20**	**19**	**28**	**19**	**33**	**21**	**33**	**25**
2001	1	10	19	20	7	30	18	34	25
2001	2	12	19	26	4	18	9	47	19
2001	3	1	19	24	13	26	16	36	24
2001	4	2	20	39	24	33	29	37	31
2001	5	4	15	85	66	87	64	87	66
2001	6	20	17	84	63	83	62	77	61
2001	7	25	17	90	73	89	70	85	62
2001	***8***	***9***	***15***	***91***	***74***	***89***	***74***	***88***	***71***
2001	9	10	16	80	65	82	64	82	62
2001	10	4	20	77	59	75	56	68	50
2001	11	29	18	43	32	57	38	51	43
2001	**12**	**17**	**18**	**32**	**27**	**35**	**24**	**44**	**28**
2002	1	2	18	32	16	29	16	26	15
2002	2	11	19	50	13	48	24	37	24
2002	3	5	19	27	14	36	19	57	34
2002	4	17	15	89	60	84	53	71	48
2002	5	31	14	77	60	77	60	73	58
2002	6	27	15	85	66	89	63	79	63
2002	7	23	15	88	68	84	63	79	61
2002	***8***	***14***	***14***	***93***	***70***	***101***	***76***	***98***	***73***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Worcester Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2002	9	9	17	88	68	88	60	84	60
2002	10	2	20	79	61	80	60	75	56
2002	11	18	18	35	30	32	26	34	25
2002	12	9	19	22	5	36	22	32	12
2003	**1**	**22**	**19**	**10**	**1**	**13**	**2**	**22**	**9**
2003	2	13	19	13	1	25	7	27	8
2003	3	3	19	33	2	36	30	37	20
2003	4	1	19	36	21	34	25	50	29
2003	5	20	14	80	58	78	51	69	42
2003	***6***	***27***	***14***	***88***	***66***	***89***	***73***	***88***	***69***
2003	7	8	17	84	68	85	67	87	71
2003	8	22	15	86	66	83	66	83	63
2003	9	15	20	76	65	80	60	72	54
2003	10	27	18	63	51	60	50	53	30
2003	11	17	18	39	35	42	26	37	26
2003	12	15	18	33	23	33	13	27	15
2004	**1**	**15**	**19**	**3**	**-12**	**2**	**-9**	**34**	**2**
2004	2	3	19	33	20	36	16	29	9
2004	3	16	19	33	22	46	32	40	20
2004	4	1	19	41	36	38	33	44	27
2004	5	12	21	85	63	81	59	73	50
2004	6	9	17	88	66	85	64	76	48
2004	7	22	16	83	66	83	65	81	67
2004	***8***	***30***	***16***	***83***	***69***	***85***	***68***	***86***	***68***
2004	9	9	20	79	69	79	69	79	63
2004	10	19	19	44	41	52	37	51	39
2004	11	9	18	35	23	54	29	64	41
2004	**12**	**20**	**19**	**31**	**0**	**37**	**26**	**34**	**14**
2005	1	18	19	8	-1	22	7	23	18
2005	2	1	19	36	15	28	15	37	22
2005	3	9	19	17	4	42	11	46	29
2005	4	4	21	48	35	53	36	54	35
2005	5	25	20	47	42	45	41	52	43
2005	6	13	17	87	71	85	70	87	68
2005	***7***	***27***	***16***	***92***	***65***	***89***	***66***	***82***	***66***
2005	8	5	15	90	68	86	67	87	70
2005	9	14	17	86	62	87	65	85	60
2005	10	7	13	75	65	75	61	76	54
2005	11	23	18	30	18	46	30	54	38
2005	12	14	19	21	4	19	8	34	18
2006	1	16	18	23	18	26	19	59	26
2006	2	27	19	18	2	20	8	22	12
2006	3	2	19	28	18	28	10	23	9
2006	4	5	20	39	29	44	31	56	38
2006	5	31	17	82	54	79	58	82	62
2006	6	19	15	87	68	89	64	76	60
2006	7	18	17	91	73	91	73	89	69
2006	***8***	***2***	***17***	***93***	***73***	***91***	***72***	***84***	***64***
2006	9	19	20	76	61	78	58	77	61
2006	10	4	20	74	57	72	47	64	49
2006	11	28	18	51	36	61	47	55	37
2006	12	8	18	27	14	49	27	41	18

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Worcester Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
Year	Month	Day	Hour	Maximum Temperature	Minimum Temperature	Maximum Temperature	Minimum Temperature	Maximum Temperature	Minimum Temperature
2007	1	26	19	8	-3	22	3	33	19
2007	**2**	**5**	**19**	**12**	**1**	**18**	**8**	**31**	**14**
2007	3	6	19	16	0	32	16	35	25
2007	4	4	20	34	31	41	33	39	35
2007	5	25	16	88	66	85	52	73	48
2007	***6***	***27***	***15***	***91***	***71***	***90***	***64***	***84***	***62***
2007	7	27	15	86	70	86	65	83	63
2007	8	3	15	90	65	88	66	85	68
2007	9	7	17	89	64	75	55	74	55
2007	10	4	20	80	62	74	55	69	47
2007	11	4	2	53	36	45	38	51	38
2007	12	17	19	31	12	31	12	28	14
2008	1	3	19	10	0	28	5	31	24
2008	2	11	19	19	5	35	9	33	20
2008	3	3	19	46	19	35	21	36	18
2008	4	7	20	47	33	40	35	50	38
2008	5	27	14	80	51	77	50	74	49
2008	***6***	***10***	***17***	***94***	***69***	***92***	***72***	***89***	***71***
2008	7	9	15	85	71	86	70	82	68
2008	8	1	16	82	65	74	65	83	68
2008	9	5	15	85	66	83	63	79	60
2008	10	29	19	37	28	45	30	63	44
2008	11	2	2	38	25	52	31	54	24
2008	12	8	19	18	8	30	15	32	18
2009	**1**	**15**	**19**	**14**	**2**	**31**	**6**	**32**	**14**
2009	2	5	19	15	1	21	7	31	18
2009	3	2	19	22	12	24	19	48	23
2009	4	28	16	89	53	84	52	82	58
2009	5	22	16	85	59	86	59	79	49
2009	6	26	13	74	62	75	60	63	59
2009	7	28	17	83	66	82	68	82	67
2009	***8***	***18***	***14***	***89***	***72***	***88***	***69***	***88***	***68***
2009	9	23	20	77	61	70	59	73	51
2009	10	28	19	48	41	46	39	59	37
2009	11	30	18	50	34	48	33	47	37
2009	12	29	19	24	6	36	24	51	31

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Narragansett Electric Company
Historical Peak Day Temperatures - Providence Weather Station

Narragansett Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1994	**1**	**19**	**18**	**9**	**1**	**45**	**6**	**45**	**3**
1994	2	8	18	17	10	41	18	39	28
1994	3	2	19	33	17	33	18	29	12
1994	4	4	11	59	37	60	39	47	35
1994	5	23	15	83	48	72	45	70	40
1994	6	27	15	82	65	84	66	78	62
1994	***7***	***21***	***15***	***92***	***73***	***86***	***69***	***84***	***65***
1994	8	4	15	89	69	82	70	87	72
1994	9	1	14	78	57	72	56	73	55
1994	10	31	18	69	45	73	50	65	41
1994	11	21	18	59	31	50	33	62	43
1994	12	12	18	29	20	49	30	45	38
1995	1	11	18	23	19	31	19	36	22
1995	**2**	**6**	**19**	**14**	**3**	**28**	**6**	**39**	**25**
1995	3	1	19	32	31	35	27	31	20
1995	4	5	21	33	21	62	28	51	31
1995	5	31	14	86	57	76	59	66	55
1995	6	20	14	93	65	92	70	90	64
1995	7	27	15	95	75	87	77	86	74
1995	***8***	***2***	***15***	***93***	***71***	***96***	***70***	***87***	***64***
1995	9	1	15	86	69	84	55	83	63
1995	10	30	18	53	37	55	43	70	54
1995	11	29	18	37	26	65	37	54	36
1995	**12**	**11**	**18**	**25**	**14**	**34**	**17**	**48**	**22**
1996	1	3	18	33	17	33	25	39	29
1996	2	5	19	17	-1	13	5	19	12
1996	3	7	19	33	25	39	31	50	19
1996	4	10	12	38	33	42	30	41	33
1996	5	21	15	92	65	93	57	72	53
1996	6	12	15	79	68	82	67	71	60
1996	7	18	15	88	67	87	71	86	71
1996	***8***	***6***	***15***	***85***	***68***	***81***	***66***	***78***	***64***
1996	9	5	17	86	67	79	63	87	66
1996	10	8	19	60	45	62	41	56	36
1996	11	27	18	33	21	59	34	49	36
1996	12	16	18	43	38	43	38	43	38
1997	**1**	**27**	**18**	**34**	**15**	**35**	**20**	**53**	**36**
1997	2	11	19	34	28	41	20	39	23
1997	3	31	19	61	47	61	47	53	45
1997	4	2	20	49	35	40	31	61	47
1997	5	19	11	59	49	66	46	64	46
1997	6	26	14	89	70	81	63	77	62
1997	***7***	***15***	***15***	***92***	***69***	***94***	***71***	***88***	***68***
1997	8	1	15	89	67	86	60	80	58
1997	9	2	15	81	66	76	65	76	60
1997	10	28	18	48	35	54	43	49	34
1997	11	24	18	40	31	34	32	49	34
1997	**12**	**15**	**18**	**37**	**19**	**42**	**23**	**40**	**27**
1998	1	15	18	34	16	31	23	48	30
1998	2	5	19	35	30	41	33	53	35
1998	3	12	19	27	15	32	20	57	27
1998	4	1	19	61	42	85	55	77	44

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Narragansett Electric Company
Historical Peak Day Temperatures - Providence Weather Station

Narragansett Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1998	5	29	14	85	65	82	52	72	53
1998	6	26	14	90	71	87	68	78	67
1998	***7***	***22***	***15***	***93***	***68***	***91***	***70***	***82***	***70***
1998	8	24	14	90	72	79	62	82	63
1998	9	16	14	78	66	81	68	70	60
1998	10	1	12	77	50	75	51	67	46
1998	11	17	18	46	38	51	35	60	40
1998	12	30	18	39	13	40	35	41	33
1999	**1**	**14**	**18**	**18**	**10**	**49**	**19**	**46**	**18**
1999	2	22	19	28	15	38	29	40	32
1999	3	8	19	31	15	34	16	39	27
1999	4	5	11	60	32	56	41	49	43
1999	5	19	12	69	61	71	53	70	44
1999	6	28	15	89	71	93	68	91	68
1999	***7***	***19***	***14***	***90***	***69***	***97***	***74***	***97***	***73***
1999	8	13	15	83	69	84	66	75	65
1999	9	7	14	80	73	80	71	82	66
1999	10	20	19	54	50	53	34	62	43
1999	11	30	18	37	28	47	33	50	37
1999	12	14	18	43	39	49	27	46	33
2000	**1**	**17**	**18**	**20**	**3**	**42**	**11**	**19**	**4**
2000	2	2	19	29	19	35	27	41	30
2000	3	20	19	48	31	43	25	33	18
2000	4	26	12	41	36	53	41	56	44
2000	5	9	16	91	51	89	61	91	52
2000	6	27	15	90	66	87	70	84	63
2000	7	10	15	89	72	81	62	77	56
2000	***8***	***8***	***15***	***87***	***72***	***88***	***70***	***79***	***60***
2000	9	1	15	86	71	83	68	75	59
2000	10	30	18	42	34	40	33	61	38
2000	11	30	18	40	36	50	36	51	41
2000	**12**	**13**	**18**	**31**	**18**	**55**	**26**	**41**	**33**
2001	1	10	18	27	15	33	24	36	24
2001	2	12	19	26	10	26	17	52	25
2001	3	1	19	31	20	33	22	44	30
2001	4	2	20	45	33	45	33	45	36
2001	5	4	15	90	64	90	61	89	50
2001	6	28	15	87	72	87	69	87	64
2001	7	25	15	96	76	90	72	89	63
2001	***8***	***9***	***15***	***99***	***74***	***94***	***76***	***94***	***75***
2001	9	10	16	83	65	83	65	82	62
2001	10	4	14	80	58	78	49	73	42
2001	11	29	18	56	41	63	43	54	47
2001	**12**	**17**	**18**	**36**	**30**	**41**	**29**	**49**	**32**
2002	1	31	18	36	32	49	37	69	36
2002	2	5	19	30	19	42	24	37	17
2002	3	18	19	36	30	43	26	55	32
2002	4	17	15	92	56	74	49	72	52
2002	5	31	14	79	62	76	59	72	59
2002	6	27	16	91	73	90	64	80	58
2002	7	30	17	94	73	95	72	75	66
2002	***8***	***14***	***15***	***98***	***73***	***99***	***65***	***97***	***70***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Narragansett Electric Company
Historical Peak Day Temperatures - Providence Weather Station

Narragansett Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2002	9	9	17	88	60	84	60	89	64
2002	10	2	20	85	66	85	65	79	61
2002	11	27	18	39	23	30	17	31	20
2002	12	17	19	29	22	38	28	46	35
2003	**1**	**22**	**19**	**19**	**8**	**22**	**11**	**33**	**17**
2003	2	13	19	20	3	34	11	30	15
2003	3	3	19	37	10	45	32	39	18
2003	4	7	20	37	29	45	31	37	30
2003	5	20	14	73	45	81	43	70	36
2003	6	26	15	89	72	92	62	81	60
2003	7	8	17	90	69	88	67	89	72
2003	***8***	***22***	***15***	***90***	***71***	***88***	***68***	***87***	***67***
2003	9	16	17	81	63	77	65	79	66
2003	10	27	18	66	56	64	49	56	27
2003	11	17	18	44	40	48	23	44	32
2003	12	15	18	41	30	39	19	33	23
2004	**1**	**15**	**19**	**12**	**-5**	**13**	**1**	**43**	**13**
2004	2	3	19	44	20	38	17	33	12
2004	3	16	19	38	27	52	37	43	25
2004	4	1	19	48	39	57	29	55	31
2004	5	12	15	84	60	86	54	66	44
2004	6	9	17	92	67	85	60	67	51
2004	7	22	16	81	65	85	67	86	68
2004	***8***	***30***	***15***	***84***	***72***	***87***	***69***	***88***	***69***
2004	9	9	13	93	76	89	74	88	72
2004	10	19	19	50	45	59	40	56	42
2004	11	9	18	42	27	57	34	65	37
2004	**12**	**20**	**19**	**37**	**7**	**42**	**28**	**38**	**18**
2005	1	18	19	15	6	29	15	30	23
2005	2	1	19	36	9	31	16	39	24
2005	3	9	19	25	11	44	16	47	32
2005	4	4	21	55	40	56	40	57	39
2005	5	25	12	48	44	50	45	57	45
2005	6	14	14	93	56	92	73	88	67
2005	7	19	16	94	74	82	72	81	68
2005	***8***	***5***	***15***	***99***	***72***	***86***	***68***	***95***	***70***
2005	9	13	16	85	67	91	63	74	51
2005	10	7	13	78	68	76	65	75	59
2005	11	23	18	35	24	50	35	57	35
2005	**12**	**14**	**18**	**25**	**10**	**25**	**14**	**41**	**23**
2006	1	16	18	30	23	33	25	62	33
2006	2	27	19	25	11	28	14	33	19
2006	3	2	19	32	20	35	20	31	13
2006	4	5	20	41	31	52	32	56	35
2006	5	30	15	83	58	82	57	81	61
2006	6	19	15	90	66	86	63	85	61
2006	7	18	15	96	70	92	70	87	69
2006	***8***	***2***	***15***	***100***	***76***	***97***	***75***	***90***	***67***
2006	9	18	15	81	61	80	58	78	58
2006	10	4	20	78	57	75	47	69	50
2006	11	28	18	50	42	65	38	58	30
2006	12	8	18	33	19	57	34	49	20

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Narragansett Electric Company
Historical Peak Day Temperatures - Providence Weather Station

Narragansett Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2007	1	26	19	15	3	33	12	42	21
2007	2	5	19	20	10	26	16	36	21
2007	***3***	***6***	***19***	***22***	***8***	***40***	***22***	***42***	***31***
2007	4	4	20	41	36	48	36	44	39
2007	5	25	15	93	66	81	51	71	46
2007	6	27	15	95	72	95	64	88	62
2007	7	10	16	86	66	81	66	91	65
2007	***8***	***3***	***15***	***93***	***71***	***93***	***67***	***89***	***68***
2007	9	7	16	89	65	74	56	80	52
2007	10	4	15	82	64	72	64	73	47
2007	11	19	18	58	40	49	44	54	41
2007	12	17	19	36	20	39	22	33	22
2008	1	3	19	17	8	34	13	44	23
2008	2	11	19	27	11	47	16	38	22
2008	3	3	19	50	23	43	27	42	27
2008	4	7	20	49	37	44	39	55	44
2008	5	27	15	78	59	77	52	76	50
2008	***6***	***10***	***15***	***96***	***70***	***97***	***74***	***94***	***74***
2008	7	21	15	90	71	94	72	96	72
2008	8	1	16	86	69	81	67	86	70
2008	9	5	15	85	68	87	64	81	56
2008	10	22	19	47	40	63	32	59	37
2008	11	19	18	47	29	64	40	63	29
2008	12	8	18	24	14	34	22	37	21
2009	**1**	**15**	**18**	**17**	**10**	**36**	**15**	**37**	**14**
2009	2	5	19	20	8	27	15	36	26
2009	3	2	19	25	18	32	24	52	32
2009	4	28	15	89	51	68	52	88	52
2009	5	22	15	84	59	85	54	78	48
2009	6	30	15	79	62	76	64	72	61
2009	7	30	17	87	72	81	72	84	69
2009	***8***	***18***	***15***	***94***	***69***	***87***	***70***	***89***	***67***
2009	9	24	14	83	60	78	62	75	53
2009	10	15	19	44	36	53	37	58	40
2009	11	23	18	50	44	54	40	59	38
2009	12	29	19	31	13	45	25	54	32

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Nantucket Electric Company
Historical Peak Day Temperatures - Nantucket Weather Station

Nantucket Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1999	**1**	**1**	**19**	**29**	**14**	**25**	**16**	**46**	**17**
1999	2	22	19	32	19	38	27	37	34
1999	3	7	20	41	20	46	26	40	28
1999	4	23	20	53	44	50	43	56	41
1999	5	30	21	73	52	65	54	66	48
1999	6	30	19	75	65	71	67	73	66
1999	7	19	20	77	67	79	68	77	68
1999	***8***	***13***	***21***	***78***	***69***	***77***	***67***	***72***	***65***
1999	9	4	20	78	63	75	58	75	54
1999	10	7	20	51	39	61	46	54	51
1999	11	30	19	40	33	46	38	50	41
1999	12	1	18	37	32	40	33	46	38
2000	**1**	**17**	**18**	**27**	**7**	**44**	**5**	**18**	**6**
2000	2	2	20	31	21	36	31	43	32
2000	3	18	19	33	26	54	30	56	45
2000	4	26	20	42	38	50	40	57	43
2000	5	29	11	54	43	63	45	67	52
2000	6	30	22	66	58	67	59	74	58
2000	7	3	19	74	62	72	55	76	55
2000	***8***	***9***	***20***	***75***	***66***	***74***	***66***	***73***	***66***
2000	9	1	20	78	66	77	67	74	62
2000	10	9	11	51	43	57	48	61	48
2000	11	24	19	31	22	35	26	36	31
2000	**12**	**2**	**19**	**34**	**28**	**42**	**34**	**43**	**38**
2001	1	10	8	26	18	38	24	43	29
2001	2	11	19	27	19	53	27	47	32
2001	3	7	19	34	32	41	36	41	32
2001	4	18	13	45	36	49	40	51	36
2001	5	27	12	65	55	64	46	62	48
2001	6	30	20	74	64	72	61	84	69
2001	7	25	19	77	69	73	67	76	63
2001	***8***	***10***	***19***	***78***	***71***	***85***	***69***	***88***	***68***
2001	9	1	11	79	63	76	66	74	60
2001	10	8	11	52	41	59	45	70	54
2001	11	21	19	43	28	59	39	58	49
2001	**12**	**31**	**19**	**34**	**28**	**35**	**28**	**43**	**31**
2002	1	3	19	36	29	37	25	37	19
2002	2	5	19	35	23	42	32	40	18
2002	3	22	19	43	24	46	37	47	32
2002	4	22	20	46	38	53	44	69	48
2002	5	18	13	53	43	60	51	61	48
2002	6	29	21	77	58	72	63	71	65
2002	7	4	19	80	66	85	67	76	65
2002	***8***	***17***	***21***	***92***	***71***	***77***	***70***	***80***	***70***
2002	9	2	11	69	63	67	59	67	55
2002	10	12	19	59	57	61	56	61	44
2002	11	27	19	46	27	52	40	51	39
2002	12	3	19	37	21	46	29	42	29
2003	**1**	**22**	**19**	**21**	**11**	**22**	**14**	**32**	**19**
2003	2	15	19	20	13	20	12	20	13
2003	3	3	20	36	14	49	33	36	21
2003	4	8	11	37	32	38	32	44	28

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Nantucket Electric Company
Historical Peak Day Temperatures - Nantucket Weather Station

Nantucket Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2003	5	24	19	59	50	54	49	53	48
2003	6	30	21	69	62	68	60	77	60
2003	7	26	19	79	65	76	65	74	68
2003	***8***	***8***	***20***	***77***	***68***	***75***	***68***	***78***	***68***
2003	9	2	12	62	57	68	52	68	49
2003	10	23	19	45	39	62	46	67	55
2003	11	14	19	42	36	59	42	56	52
2003	12	7	18	45	31	47	33	36	21
2004	**1**	**16**	**10**	**33**	**22**	**27**	**20**	**30**	**20**
2004	2	8	19	30	21	47	30	47	30
2004	3	19	19	33	29	33	28	34	31
2004	4	28	10	54	37	51	42	52	42
2004	5	28	18	57	47	61	48	54	45
2004	6	30	21	72	62	72	59	73	59
2004	7	31	19	75	66	72	63	73	64
2004	***8***	***20***	***19***	***75***	***69***	***74***	***67***	***71***	***55***
2004	9	4	20	78	61	71	53	71	55
2004	10	21	19	53	48	55	51	53	45
2004	11	13	19	45	39	50	44	54	42
2004	**12**	**20**	**19**	**42**	**13**	**45**	**33**	**44**	**23**
2005	1	18	19	18	10	32	18	36	28
2005	2	24	19	31	23	40	30	40	32
2005	3	9	8	26	16	47	19	43	39
2005	4	12	21	44	32	45	32	58	31
2005	5	25	19	51	45	48	44	56	43
2005	6	27	21	72	61	71	61	70	60
2005	7	22	19	84	65	84	63	88	63
2005	***8***	***14***	***19***	***81***	***70***	***79***	***70***	***78***	***67***
2005	9	1	20	82	66	80	68	74	68
2005	10	8	19	72	67	74	64	70	62
2005	11	25	19	42	26	52	28	40	32
2005	**12**	**14**	**18**	**27**	**21**	**34**	**24**	**44**	**30**
2006	1	16	19	36	28	37	28	55	37
2006	2	27	19	23	13	33	16	35	24
2006	3	3	20	31	21	38	26	32	23
2006	4	8	20	50	38	52	35	48	36
2006	5	1	20	50	43	55	41	53	40
2006	6	30	19	71	63	71	64	73	63
2006	7	29	19	81	69	76	69	75	64
2006	***8***	***3***	***19***	***86***	***71***	***88***	***74***	***82***	***69***
2006	9	2	20	66	61	69	54	69	55
2006	10	6	20	60	50	66	49	70	62
2006	11	22	18	49	43	47	36	48	40
2006	12	8	19	33	19	57	34	49	20
2007	1	26	19	17	7	33	17	39	26
2007	2	5	19	22	13	32	22	42	28
2007	3	6	20	26	12	38	25	41	32
2007	4	12	18	47	37	45	32	45	33
2007	5	18	19	47	43	54	43	60	53
2007	6	30	19	71	64	71	64	73	63
2007	7	30	19	75	67	77	67	77	68
2007	***8***	***3***	***19***	***79***	***68***	***78***	***60***	***82***	***61***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Nantucket Electric Company
Historical Peak Day Temperatures - Nantucket Weather Station

Nantucket Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
Year	Month	Day	Hour	Maximum Temperature	Minimum Temperature	Maximum Temperature	Minimum Temperature	Maximum Temperature	Minimum Temperature
2007	9	1	20	73	56	78	65	76	56
2007	10	6	19	68	62	70	62	71	63
2007	11	4	2	55	42	52	47	55	47
2007	12	1	18	44	22	49	36	52	41
2008	1	3	19	22	14	39	22	48	25
2008	2	11	19	25	14	46	20	39	30
2008	3	19	19	46	33	45.5	31	39.5	29
2008	4	7	20	42	38	45	42	40	28
2008	5	23	21	65	47	58	46	56	43
2008	6	28	19	78	59	77	62	70	62
2008	7	19	19	82	68	80	67	74	57
2008	***8***	***2***	***19***	***79***	***66***	***82***	***66***	***76***	***67***
2008	9	6	13	75	69	76	67	75	61
2008	10	1	20	69	59	66	56	69	60
2008	11	22	18	29	24	35	26	35	24
2008	12	8	19	28	15	42	28	43	27
2009	**1**	**1**	**19**	**22**	**10**	**35**	**12**	**42**	**29**
2009	2	5	19	22	16	29	21	40	29
2009	3	2	19	35	26	37	33	49	35
2009	4	11	20	50	40	54	37	49	38
2009	5	24	21	61	51	65	49	63	53
2009	6	27	19	73	57	66	57	67	57
2009	7	31	19	75	66	73	67	75	67
2009	***8***	***21***	***19***	***78***	***70***	***77***	***68***	***78***	***68***
2009	9	5	20	77	56	73	58	69	51
2009	10	16	19	49	44	51	35	51	40
2009	11	28	18	52	44	50	43	52	48
2009	12	29	19	33	16	44	33	51	35

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Granite State Electric Company
Historical Peak Day Temperatures - Concord Weather Station

Mass Electric				Day of Monthly Peak		One Day Prior		Two Days Prior	
Monthly Peak Information				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1994	**1**	**19**	**18**	**6**	**-21**	**26**	**-2**	**28**	**-4**
1994	2	9	18	8	3	7	-4	32	2
1994	3	1	19	28	-5	23	7	19	4
1994	4	6	20	55	44	63	23	56	30
1994	5	31	14	86	58	83	57	75	35
1994	6	17	15	96	63	88	59	83	62
1994	***7***	***21***	***14***	***94***	***66***	***91***	***60***	***88***	***65***
1994	8	4	15	89	64	87	64	88	63
1994	9	14	15	77	56	79	56	74	54
1994	10	20	19	61	54	65	47	60	32
1994	11	28	18	36	28	34	7	42	18
1994	12	12	18	21	8	42	22	41	32
1995	1	11	18	11	3	23	4	32	11
1995	**2**	**6**	**19**	**5**	**-7**	**20**	**-3**	**28**	**15**
1995	3	9	20	35	17	64	36	37	27
1995	4	5	21	26	14	48	25	52	15
1995	5	31	15	85	46	72	52	72	50
1995	6	19	17	97	65	90	55	85	48
1995	***7***	***26***	***14***	***90***	***69***	***86***	***67***	***86***	***69***
1995	8	2	12	88	66	95	58	91	54
1995	9	1	12	83	57	81	44	79	51
1995	10	30	18	50	33	53	39	68	50
1995	11	29	18	29	22	54	28	39	27
1995	**12**	**14**	**18**	**17**	**-3**	**25**	**-5**	**22**	**-1**
1996	1	5	18	13	-15	13	-4	16	11
1996	2	13	19	10	-1	31	1	33	26
1996	3	4	19	25	9	29	4	27	10
1996	4	10	12	36	32	44	28	35	29
1996	5	21	14	83	57	91	55	80	52
1996	6	12	14	87	65	86	66	68	58
1996	7	8	15	86	62	80	51	84	58
1996	***8***	***8***	***14***	***87***	***67***	***88***	***63***	***88***	***60***
1996	9	4	15	85	56	86	63	75	63
1996	10	30	18	44	30	51	32	59	46
1996	11	25	18	31	26	36	21	46	23
1996	12	10	18	36	16	39	16	40	23
1997	**1**	**17**	**18**	**23**	**4**	**42**	**27**	**36**	**23**
1997	2	13	19	27	3	33	14	30	6
1997	3	6	19	36	27	49	27	34	29
1997	4	9	21	29	21	38	29	68	42
1997	5	29	15	80	43	79	36	67	34
1997	6	30	15	92	58	91	56	89	48
1997	***7***	***28***	***13***	***87***	***70***	***89***	***58***	***85***	***51***
1997	8	11	14	90	64	94	59	88	61
1997	9	2	16	81	64	77	63	76	54
1997	10	28	18	45	35	46	39	47	24
1997	11	25	18	32	17	36	22	31	25
1997	**12**	**15**	**18**	**30**	**11**	**39**	**15**	**37**	**28**
1998	1	15	18	23	11	27	11	41	22
1998	2	5	19	35	28	38	21	44	27
1998	3	12	19	23	8	27	14	56	22
1998	4	1	19	66	39	89	50	82	34

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Granite State Electric Company
Historical Peak Day Temperatures - Concord Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1998	5	29	15	89	60	85	47	76	38
1998	6	25	15	86	63	85	67	77	64
1998	***7***	***22***	***17***	***92***	***64***	***89***	***60***	***84***	***65***
1998	8	10	15	85	66	86	59	86	66
1998	9	21	17	81	61	83	53	79	51
1998	10	28	18	62	31	53	25	53	27
1998	11	17	18	35	32	47	33	55	37
1998	12	30	18	34	4	34	18	40	28
1999	**1**	**14**	**18**	**6**	**-1**	**31**	**5**	**33**	**11**
1999	2	22	19	19	4	33	17	36	27
1999	3	8	19	26	8	23	13	28	19
1999	4	1	19	69	29	68	26	53	32
1999	5	18	14	73	46	74	37	74	36
1999	6	28	14	91	69	92	59	89	57
1999	***7***	***6***	***14***	***95***	***69***	***95***	***72***	***89***	***70***
1999	8	17	17	86	62	80	54	69	60
1999	9	9	15	86	65	81	65	86	71
1999	10	20	19	47	38	49	24	59	37
1999	11	30	18	35	22	42	26	47	29
1999	12	20	18	40	10	32	9	32	19
2000	**1**	**17**	**18**	**7**	**-6**	**29**	**2**	**16**	**-1**
2000	2	2	19	24	10	32	20	36	27
2000	3	13	19	34	19	38	31	35	31
2000	4	26	12	43	34	57	30	50	40
2000	5	9	14	88	50	84	60	93	47
2000	6	27	13	84	63	81	68	89	61
2000	7	10	14	85	63	80	55	78	47
2000	8	9	15	87	61	86	65	83	62
2000	***9***	***1***	***15***	***88***	***66***	***86***	***62***	***79***	***51***
2000	10	30	18	45	35	35	31	56	35
2000	11	30	18	41	32	46	31	47	36
2000	**12**	**13**	**18**	**26**	**12**	**48**	**19**	**40**	**29**
2001	1	10	18	16	2	28	15	31	8
2001	2	22	19	19	2	39	11	47	29
2001	3	1	19	23	7	24	11	36	22
2001	4	24	15	87	52	80	47	81	52
2001	5	11	16	85	44	81	40	77	36
2001	6	27	16	89	62	88	60	83	59
2001	7	24	15	93	71	90	59	87	57
2001	***8***	***9***	***14***	***97***	***68***	***95***	***70***	***95***	***63***
2001	9	10	15	84	61	90	56	90	50
2001	10	4	14	81	48	78	41	74	35
2001	11	29	18	35	31	55	35	52	35
2001	**12**	**17**	**18**	**32**	**21**	**33**	**23**	**39**	**26**
2002	1	21	18	29	11	34	6	27	6
2002	2	11	19	34	7	32	5	32	13
2002	3	26	19	34	31	39	21	40	27
2002	4	17	15	93	53	88	45	65	44
2002	5	31	15	83	57	81	59	75	58
2002	6	27	15	88	68	90	59	84	45
2002	7	3	14	94	72	92	67	89	63
2002	***8***	***14***	***15***	***99***	***65***	***97***	***70***	***97***	***73***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Granite State Electric Company
Historical Peak Day Temperatures - Concord Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2002	9	9	17	95	58	90	68	88	68
2002	10	2	15	83	61	85	66	85	65
2002	11	18	18	37	32	35	30	32	26
2002	12	9	18	19	2	41	14	35	-1
2003	**1**	**22**	**19**	**8**	**-3**	**13**	**1**	**24**	**-3**
2003	2	13	19	13	-16	24	-6	26	2
2003	3	3	19	35	-4	36	31	38	8
2003	4	1	19	39	17	33	22	51	30
2003	5	20	15	86	41	84	38	76	30
2003	6	27	14	95	69	94	66	95	62
2003	7	8	17	91	65	90	61	93	65
2003	***8***	***22***	***15***	***90***	***64***	***89***	***65***	***90***	***60***
2003	9	15	15	79	63	80	61	76	44
2003	10	27	18	63	55	65	48	55	22
2003	11	11	18	39	18	49	14	37	12
2003	12	15	18	31	22	22	6	28	11
2004	**1**	**14**	**18**	**0**	**-13**	**37**	**-2**	**29**	**16**
2004	2	3	18	34	3	39	4	32	11
2004	3	16	19	34	24	47	31	43	21
2004	4	1	19	46	38	40	33	46	28
2004	5	12	17	87	46	85	48	66	41
2004	6	9	16	93	62	89	48	77	51
2004	7	22	16	88	61	86	58	84	63
2004	***8***	***30***	***16***	***89***	***65***	***87***	***67***	***90***	***66***
2004	9	1	14	79	51	80	58	89	65
2004	10	4	20	69	34	65	40	61	49
2004	11	17	18	36	28	46	29	57	28
2004	**12**	**20**	**19**	**33**	**-4**	**39**	**14**	**32**	**5**
2005	1	18	19	6	-2	20	6	25	10
2005	2	21	19	19	11	25	8	23	6
2005	3	8	19	34	13	40	23	37	9
2005	4	20	14	87	46	78	29	70	33
2005	5	11	15	82	44	74	38	67	44
2005	6	13	17	90	71	88	70	90	70
2005	***7***	***19***	***14***	***89***	***68***	***87***	***72***	***82***	***67***
2005	8	10	16	93	61	87	67	90	59
2005	9	14	16	89	57	86	57	89	48
2005	10	7	14	81	59	79	55	79	50
2005	11	23	18	32	14	46	32	58	23
2005	**12**	**14**	**18**	**22**	**12**	**20**	**-3**	**36**	**11**
2006	1	16	18	25	10	27	11	55	27
2006	2	27	19	19	1	17	7	22	7
2006	3	1	19	28	3	23	0	19	1
2006	4	4	20	40	29	58	25	58	33
2006	5	31	17	84	55	81	58	86	58
2006	6	19	15	93	65	94	61	84	53
2006	7	17	17	93	64	92	67	86	64
2006	***8***	***2***	***16***	***97***	***76***	***95***	***69***	***85***	***52***
2006	9	19	16	83	53	80	51	79	54
2006	10	4	20	77	51	77	39	63	40
2006	11	28	18	45	35	59	31	56	24
2006	12	9	18	26	16	50	26	38	14

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Granite State Electric Company
Historical Peak Day Temperatures - Concord Weather Station

Mass Electric				Day of Monthly Peak		One Day Prior		Two Days Prior	
Monthly Peak Information				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2007	1	17	19	14	0	32	9	32	25
2007	**2**	**5**	**19**	**14**	**4**	**20**	**-1**	**30**	**7**
2007	3	6	19	16	-2	34	16	37	26
2007	4	23	15	87	42	78	32	76	29
2007	5	25	15	93	54	91	43	76	36
2007	***6***	***27***	***16***	***95***	***65***	***95***	***61***	***87***	***57***
2007	7	27	16	90	66	89	60	88	58
2007	8	3	15	94	65	93	61	88	62
2007	9	7	16	95	57	80	40	73	38
2007	10	4	15	81	50	73	58	70	40
2007	11	28	18	55	32	46	34	56	35
2007	12	13	18	24	13	32	2	31	8
2008	1	3	18	9	-12	29	2	31	12
2008	2	11	19	20	8	34	14	35	9
2008	3	3	19	44	4	34	12	34	18
2008	4	23	16	85	43	78	36	73	38
2008	5	27	14	87	52	84	41	77	37
2008	***6***	***10***	***16***	***98***	***66***	***94***	***66***	***94***	***59***
2008	7	18	16	91	57	87	58	88	53
2008	8	1	16	85	65	76	61	85	63
2008	9	5	16	89	62	88	53	81	54
2008	10	29	19	40	34	50	36	68	32
2008	11	19	19	30	16	36	17	44	24
2008	12	8	18	18	3	32	18	33	11
2009	**1**	**15**	**18**	**15**	**-14**	**28**	**-1**	**30**	**0**
2009	2	5	19	15	-2	22	5	32	19
2009	3	2	19	23	15	25	17	45	19
2009	4	28	15	93	46	79	47	81	54
2009	5	21	16	91	44	80	40	72	30
2009	6	26	13	86	63	80	58	72	63
2009	7	29	15	87	68	86	58	86	64
2009	***8***	***18***	***14***	***93***	***63***	***90***	***63***	***90***	***59***
2009	9	3	16	80	48	77	43	73	40
2009	10	28	19	47	42	51	27	59	29
2009	11	30	18	46	30	51	28	50	40
2009	12	17	18	18	3	35	18	44	34

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Appendix K

2010 Power Supply Area Forecast

Sub Area Forecast
Towns

Energy Portfolio Management
Electric Load Forecasting

April 1, 2010

Appendix K

Sub Area Forecast
Towns

Contents

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW									
	2010	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**
Massachusetts Electric Company	**11.6%**	**1.2%**	**1.7%**	**1.8%**	**1.1%**	**0.8%**	**0.7%**	**0.7%**	**0.6%**	**0.6%**
Uxbridge Power Supply Area	**6.9%**	**3.0%**	**4.2%**	**4.1%**	**2.7%**	**2.0%**	**2.0%**	**2.0%**	**1.9%**	**1.9%**
Upton	13.3%	5.4%	7.7%	6.5%	3.8%	2.4%	2.0%	2.0%	1.9%	1.9%
Uxbridge	10.7%	4.5%	6.3%	5.6%	3.4%	2.2%	2.0%	2.0%	1.9%	1.9%
Millville	9.9%	4.1%	5.9%	5.2%	3.2%	2.1%	2.0%	2.0%	1.9%	1.9%
Mendon	9.5%	4.0%	5.7%	5.1%	3.2%	2.1%	2.0%	2.0%	1.9%	1.9%
Whitinsville	6.7%	2.8%	4.1%	4.0%	2.7%	1.9%	2.0%	2.0%	1.9%	1.9%
Blackstone	6.6%	2.8%	4.0%	3.9%	2.6%	1.9%	2.0%	2.0%	1.9%	1.9%
Douglas	5.9%	2.5%	3.6%	3.6%	2.5%	1.9%	2.0%	2.0%	1.9%	1.9%
Milford	5.5%	2.4%	3.4%	3.5%	2.4%	1.9%	2.0%	2.0%	1.9%	1.9%
Hopedale	4.6%	2.0%	2.9%	3.1%	2.3%	1.8%	2.0%	2.0%	1.9%	1.9%
Attleboro Power Supply Area	**10.8%**	**2.3%**	**2.9%**	**3.0%**	**2.2%**	**1.8%**	**1.8%**	**1.8%**	**1.7%**	**1.7%**
Franklin	24.0%	4.5%	5.6%	5.1%	3.2%	2.2%	1.8%	1.8%	1.7%	1.7%
Wrentham	18.2%	3.6%	4.4%	4.2%	2.8%	2.0%	1.8%	1.8%	1.7%	1.7%
Bellingham	15.4%	3.1%	3.9%	3.7%	2.6%	1.9%	1.8%	1.8%	1.7%	1.7%
Rehoboth	13.4%	2.7%	3.4%	3.4%	2.4%	1.8%	1.8%	1.8%	1.7%	1.7%
Norton	12.0%	2.5%	3.1%	3.1%	2.3%	1.8%	1.8%	1.8%	1.7%	1.7%
Foxboro	10.5%	2.2%	2.7%	2.8%	2.1%	1.7%	1.8%	1.8%	1.7%	1.7%
Plainville	8.6%	1.8%	2.3%	2.5%	2.0%	1.7%	1.8%	1.8%	1.7%	1.7%
Seekonk	7.9%	1.7%	2.1%	2.3%	1.9%	1.6%	1.8%	1.8%	1.7%	1.7%
Attleboro	0.0%	0.0%	-0.9%	0.0%	0.8%	1.2%	1.8%	1.8%	1.7%	1.7%
Marlboro Power Supply Area	**25.9%**	**2.1%**	**2.8%**	**2.7%**	**2.1%**	**1.7%**	**1.6%**	**1.5%**	**1.5%**	**1.4%**
Southboro	25.9%	5.4%	7.3%	5.9%	3.6%	2.4%	1.6%	1.5%	1.5%	1.4%
Marlboro	24.1%	2.0%	2.6%	2.6%	2.0%	1.7%	1.6%	1.5%	1.5%	1.4%
Northboro	20.6%	1.7%	2.3%	2.3%	1.8%	1.6%	1.6%	1.5%	1.5%	1.4%
Westboro	10.2%	0.9%	1.2%	1.6%	1.5%	1.4%	1.6%	1.5%	1.5%	1.4%
Essex Power Supply Area	**10.5%**	**2.3%**	**3.1%**	**3.0%**	**1.8%**	**1.4%**	**1.3%**	**1.3%**	**1.2%**	**1.2%**
Beverly	18.9%	3.9%	5.1%	4.5%	2.4%	1.7%	1.3%	1.3%	1.2%	1.2%
Wenham	16.2%	3.4%	4.5%	4.1%	2.2%	1.6%	1.3%	1.3%	1.2%	1.2%
Topsfield	15.1%	3.2%	4.2%	3.9%	2.2%	1.6%	1.3%	1.3%	1.2%	1.2%
Hamilton	13.8%	2.9%	3.9%	3.6%	2.1%	1.5%	1.3%	1.3%	1.2%	1.2%
Manchester	13.5%	2.9%	3.8%	3.6%	2.0%	1.5%	1.3%	1.3%	1.2%	1.2%
Essex	6.8%	1.5%	2.0%	2.3%	1.5%	1.3%	1.3%	1.3%	1.2%	1.2%
Salem	6.7%	1.5%	2.0%	2.2%	1.5%	1.3%	1.3%	1.3%	1.2%	1.2%
Gloucester	4.5%	1.0%	1.4%	1.8%	1.3%	1.2%	1.3%	1.3%	1.2%	1.2%
Rockport	3.5%	0.8%	1.1%	1.6%	1.2%	1.2%	1.3%	1.3%	1.2%	1.2%
Webster Power Supply Area	**4.5%**	**2.1%**	**2.6%**	**2.6%**	**1.8%**	**1.4%**	**1.3%**	**1.2%**	**1.2%**	**1.1%**
Charlton	11.4%	5.1%	6.2%	5.2%	2.9%	1.9%	1.3%	1.2%	1.2%	1.1%
Sutton	7.6%	3.5%	4.2%	3.8%	2.3%	1.6%	1.3%	1.2%	1.2%	1.1%
Dudley	5.4%	2.5%	3.0%	2.9%	1.9%	1.5%	1.3%	1.2%	1.2%	1.1%
Sturbridge	5.2%	2.4%	3.0%	2.8%	1.9%	1.5%	1.3%	1.2%	1.2%	1.1%
Millbury	4.9%	2.3%	2.8%	2.7%	1.8%	1.4%	1.3%	1.2%	1.2%	1.1%

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW									
	2010	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**
Grafton	4.7%	2.2%	2.7%	2.6%	1.8%	1.4%	1.3%	1.2%	1.2%	1.1%
Spencer	3.3%	1.6%	1.9%	2.1%	1.5%	1.3%	1.3%	1.2%	1.2%	1.1%
Southbridge	2.6%	1.2%	1.5%	1.7%	1.4%	1.3%	1.3%	1.2%	1.2%	1.1%
Oxford	2.3%	1.1%	1.3%	1.6%	1.3%	1.2%	1.3%	1.2%	1.2%	1.1%
Webster	0.8%	0.4%	0.5%	1.0%	1.1%	1.1%	1.3%	1.2%	1.2%	1.1%
Worcester Power Supply Area	**11.6%**	**1.7%**	**1.7%**	**2.0%**	**1.6%**	**1.4%**	**1.4%**	**1.3%**	**1.3%**	**1.2%**
Rutland	50.0%	5.7%	5.7%	5.3%	3.5%	2.3%	1.4%	1.3%	1.3%	1.2%
Oakham	27.2%	3.6%	3.6%	3.5%	2.5%	1.8%	1.4%	1.3%	1.3%	1.2%
New Braintree	26.3%	3.5%	3.5%	3.4%	2.5%	1.8%	1.4%	1.3%	1.3%	1.2%
E. Brookfield	22.4%	3.0%	3.1%	3.1%	2.3%	1.7%	1.4%	1.3%	1.3%	1.2%
Brookfield	22.4%	3.0%	3.1%	3.1%	2.3%	1.7%	1.4%	1.3%	1.3%	1.2%
Leicester	16.1%	2.3%	2.3%	2.5%	1.9%	1.6%	1.4%	1.3%	1.3%	1.2%
W. Brookfield	15.1%	2.2%	2.2%	2.3%	1.8%	1.5%	1.4%	1.3%	1.3%	1.2%
Worcester	10.8%	1.6%	1.6%	1.9%	1.6%	1.4%	1.4%	1.3%	1.3%	1.2%
N. Brookfield	10.6%	1.6%	1.6%	1.8%	1.6%	1.4%	1.4%	1.3%	1.3%	1.2%
Auburn	6.2%	1.0%	1.0%	1.3%	1.3%	1.3%	1.4%	1.3%	1.3%	1.2%
South Berkshire Power Supply Area	**10.4%**	**2.3%**	**4.0%**	**2.9%**	**1.2%**	**0.6%**	**0.7%**	**0.8%**	**0.7%**	**0.7%**
Alford	16.5%	3.5%	6.0%	4.0%	1.5%	0.7%	0.7%	0.8%	0.7%	0.7%
Sheffield	16.1%	3.4%	5.8%	3.9%	1.5%	0.7%	0.7%	0.8%	0.7%	0.7%
Monterey	13.2%	2.9%	4.9%	3.5%	1.3%	0.6%	0.7%	0.8%	0.7%	0.7%
Mt.Washington	10.1%	2.3%	3.9%	2.9%	1.2%	0.6%	0.7%	0.8%	0.7%	0.7%
New Marlboro	9.8%	2.2%	3.7%	2.8%	1.2%	0.6%	0.7%	0.8%	0.7%	0.7%
Lenox	9.5%	2.1%	3.6%	2.8%	1.1%	0.6%	0.7%	0.8%	0.7%	0.7%
Egremont	8.5%	1.9%	3.3%	2.6%	1.1%	0.6%	0.7%	0.8%	0.7%	0.7%
Gt. Barrington	8.3%	1.9%	3.2%	2.5%	1.1%	0.6%	0.7%	0.8%	0.7%	0.7%
Stockbridge	7.9%	1.8%	3.1%	2.4%	1.1%	0.6%	0.7%	0.8%	0.7%	0.7%
W.Stockbridge	7.8%	1.8%	3.0%	2.4%	1.1%	0.6%	0.7%	0.8%	0.7%	0.7%
Palmer Power Supply Area	**18.8%**	**1.4%**	**2.3%**	**2.0%**	**1.2%**	**0.8%**	**0.7%**	**0.7%**	**0.6%**	**0.7%**
Belchertown	44.4%	2.7%	4.4%	3.4%	1.7%	1.0%	0.7%	0.7%	0.6%	0.7%
East Longmeadow	35.7%	2.3%	3.7%	3.0%	1.5%	1.0%	0.7%	0.7%	0.6%	0.7%
Wilbraham	32.5%	2.1%	3.5%	2.8%	1.5%	0.9%	0.7%	0.7%	0.6%	0.7%
Brimfield	25.8%	1.8%	2.9%	2.4%	1.3%	0.9%	0.7%	0.7%	0.6%	0.7%
Hampden	22.2%	1.6%	2.6%	2.2%	1.2%	0.9%	0.7%	0.7%	0.6%	0.7%
Hardwick	17.8%	1.3%	2.1%	1.9%	1.1%	0.8%	0.7%	0.7%	0.6%	0.7%
Wales	17.7%	1.3%	2.1%	1.9%	1.1%	0.8%	0.7%	0.7%	0.6%	0.7%
Granby	17.5%	1.3%	2.1%	1.9%	1.1%	0.8%	0.7%	0.7%	0.6%	0.7%
Holland	16.2%	1.2%	1.9%	1.8%	1.1%	0.8%	0.7%	0.7%	0.6%	0.7%
Ware	9.9%	0.8%	1.2%	1.3%	0.9%	0.7%	0.7%	0.7%	0.6%	0.7%
Monson	9.1%	0.7%	1.2%	1.3%	0.9%	0.7%	0.7%	0.7%	0.6%	0.7%
Warren	-8.3%	-0.8%	-1.2%	-0.3%	0.3%	0.5%	0.7%	0.7%	0.6%	0.7%
Palmer-3Rivers	-10.7%	-1.0%	-1.6%	-0.5%	0.2%	0.5%	0.7%	0.7%	0.6%	0.7%
Adams Power Supply Area	**10.3%**	**1.2%**	**1.6%**	**1.5%**	**0.9%**	**0.7%**	**0.7%**	**0.7%**	**0.7%**	**0.7%**

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Hancock	91.0%	6.2%	8.1%	5.9%	2.7%	1.3%	0.7%	0.7%	0.7%	0.7%
Charlemont	15.8%	1.7%	2.2%	1.9%	1.1%	0.7%	0.7%	0.7%	0.7%	0.7%
Florida-Drury	12.7%	1.4%	1.8%	1.6%	0.9%	0.7%	0.7%	0.7%	0.7%	0.7%
Adams	11.8%	1.3%	1.7%	1.5%	0.9%	0.7%	0.7%	0.7%	0.7%	0.7%
Heath	9.8%	1.1%	1.4%	1.3%	0.8%	0.6%	0.7%	0.7%	0.7%	0.7%
Rowe	7.6%	0.9%	1.1%	1.1%	0.8%	0.6%	0.7%	0.7%	0.7%	0.7%
Williamstown	5.4%	0.6%	0.8%	0.9%	0.7%	0.6%	0.7%	0.7%	0.7%	0.7%
Clarksburg	4.7%	0.5%	0.7%	0.8%	0.6%	0.6%	0.7%	0.7%	0.7%	0.7%
Hawley	3.9%	0.5%	0.6%	0.8%	0.6%	0.6%	0.7%	0.7%	0.7%	0.7%
Cheshire	3.6%	0.4%	0.5%	0.7%	0.6%	0.5%	0.7%	0.7%	0.7%	0.7%
North Adams	2.8%	0.3%	0.4%	0.7%	0.6%	0.5%	0.7%	0.7%	0.7%	0.7%
Monroe	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.7%	0.7%	0.7%
Fall River Power Supply Area	**20.5%**	**0.7%**	**1.1%**	**1.3%**	**0.9%**	**0.5%**	**0.5%**	**0.6%**	**0.5%**	**0.6%**
Fall River	20.5%	0.7%	1.1%	1.3%	0.9%	0.5%	0.5%	0.6%	0.5%	0.6%
Westport	20.5%	0.7%	1.1%	1.3%	0.9%	0.5%	0.5%	0.6%	0.5%	0.6%
Somerset	20.5%	0.7%	1.1%	1.3%	0.9%	0.5%	0.5%	0.6%	0.5%	0.6%
Swansea	20.5%	0.7%	1.1%	1.3%	0.9%	0.5%	0.5%	0.6%	0.5%	0.6%
Dighton	20.5%	0.7%	1.1%	1.3%	0.9%	0.5%	0.5%	0.6%	0.5%	0.6%
Merrimack Valley Power Supply Area	**11.5%**	**1.1%**	**1.9%**	**1.9%**	**0.7%**	**0.4%**	**0.2%**	**0.3%**	**0.2%**	**0.1%**
Westford	39.1%	3.0%	5.3%	4.4%	1.4%	0.5%	0.2%	0.3%	0.2%	0.1%
Boxford	28.4%	2.3%	4.1%	3.6%	1.1%	0.5%	0.2%	0.3%	0.2%	0.1%
Methuen	24.1%	2.0%	3.6%	3.2%	1.0%	0.4%	0.2%	0.3%	0.2%	0.1%
Billerica	20.1%	1.7%	3.1%	2.8%	1.0%	0.4%	0.2%	0.3%	0.2%	0.1%
Tyngsboro	19.1%	1.7%	2.9%	2.7%	0.9%	0.4%	0.2%	0.3%	0.2%	0.1%
Dracut	18.7%	1.6%	2.9%	2.7%	0.9%	0.4%	0.2%	0.3%	0.2%	0.1%
Chelmsford	17.4%	1.5%	2.7%	2.5%	0.9%	0.4%	0.2%	0.3%	0.2%	0.1%
Salisbury	15.3%	1.4%	2.4%	2.3%	0.8%	0.4%	0.2%	0.3%	0.2%	0.1%
West Newbury	14.1%	1.3%	2.3%	2.2%	0.8%	0.4%	0.2%	0.3%	0.2%	0.1%
Newbury	13.6%	1.2%	2.2%	2.1%	0.8%	0.4%	0.2%	0.3%	0.2%	0.1%
Tewksbury	11.0%	1.0%	1.8%	1.8%	0.7%	0.3%	0.2%	0.3%	0.2%	0.1%
Amesbury	10.8%	1.0%	1.8%	1.8%	0.7%	0.3%	0.2%	0.3%	0.2%	0.1%
Haverhill	10.0%	0.9%	1.6%	1.7%	0.7%	0.3%	0.2%	0.3%	0.2%	0.1%
Newburyport	7.2%	0.7%	1.2%	1.4%	0.6%	0.3%	0.2%	0.3%	0.2%	0.1%
Lawrence	4.2%	0.4%	0.7%	1.0%	0.5%	0.3%	0.2%	0.3%	0.2%	0.1%
Lowell	4.1%	0.4%	0.7%	1.0%	0.5%	0.3%	0.2%	0.3%	0.2%	0.1%
Andover	3.1%	0.3%	0.5%	0.9%	0.5%	0.3%	0.2%	0.3%	0.2%	0.1%
No. Andover	0.8%	0.1%	0.1%	0.6%	0.4%	0.3%	0.2%	0.3%	0.2%	0.1%
Athol Power Supply Area	**26.1%**	**1.3%**	**2.3%**	**2.1%**	**0.8%**	**0.3%**	**0.2%**	**0.1%**	**0.0%**	**0.0%**
Phillipston	26.1%	2.2%	3.9%	3.2%	1.1%	0.3%	0.2%	0.1%	0.0%	0.0%
Barre	26.1%	2.1%	3.7%	3.1%	1.0%	0.3%	0.2%	0.1%	0.0%	0.0%
Petersham	26.1%	2.0%	3.7%	3.0%	1.0%	0.3%	0.2%	0.1%	0.0%	0.0%
Wendall	26.1%	1.8%	3.2%	2.7%	0.9%	0.3%	0.2%	0.1%	0.0%	0.0%

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW									
	2010	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**
Warwick	26.1%	1.8%	3.2%	2.7%	0.9%	0.3%	0.2%	0.1%	0.0%	0.0%
New Salem	26.1%	1.2%	2.2%	2.0%	0.8%	0.3%	0.2%	0.1%	0.0%	0.0%
Athol	26.1%	1.2%	2.1%	2.0%	0.8%	0.3%	0.2%	0.1%	0.0%	0.0%
Shutesbury	26.1%	1.1%	2.0%	1.9%	0.7%	0.3%	0.2%	0.1%	0.0%	0.0%
Orange	26.1%	1.0%	1.8%	1.8%	0.7%	0.3%	0.2%	0.1%	0.0%	0.0%
Royalston	26.1%	1.0%	1.8%	1.8%	0.7%	0.3%	0.2%	0.1%	0.0%	0.0%
Erving	26.1%	0.8%	1.4%	1.5%	0.6%	0.3%	0.2%	0.1%	0.0%	0.0%
Gardner Power Supply Area	**7.7%**	**0.9%**	**1.5%**	**1.5%**	**0.6%**	**0.2%**	**0.1%**	**0.1%**	**0.0%**	**0.0%**
Hubbardston	18.0%	1.9%	3.2%	2.8%	0.9%	0.3%	0.1%	0.1%	0.0%	0.0%
Winchendon	11.5%	1.2%	2.1%	2.0%	0.7%	0.2%	0.1%	0.1%	0.0%	0.0%
Westminster	9.0%	1.0%	1.7%	1.7%	0.6%	0.2%	0.1%	0.1%	0.0%	0.0%
Gardner	4.6%	0.5%	0.9%	1.1%	0.5%	0.2%	0.1%	0.1%	0.0%	0.0%
Weymouth Power Supply Area	**7.7%**	**0.2%**	**0.6%**	**0.7%**	**0.3%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.0%**
Weymouth	11.5%	0.4%	0.9%	0.9%	0.4%	0.2%	0.1%	0.1%	0.1%	0.0%
Quincy	7.1%	0.2%	0.5%	0.7%	0.3%	0.1%	0.1%	0.1%	0.1%	0.0%
Holbrook	6.5%	0.2%	0.5%	0.6%	0.3%	0.1%	0.1%	0.1%	0.1%	0.0%
Randolph	4.2%	0.1%	0.3%	0.5%	0.3%	0.1%	0.1%	0.1%	0.1%	0.0%
Hingham	-17.0%	-0.7%	-1.6%	-1.2%	-0.3%	0.0%	0.1%	0.1%	0.1%	0.0%
Brockton Power Supply Area	**8.8%**	**0.2%**	**0.4%**	**0.6%**	**0.3%**	**0.2%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**
Halifax	8.8%	0.4%	0.9%	1.0%	0.5%	0.2%	0.1%	0.1%	0.1%	0.1%
Whitman	8.8%	0.4%	0.8%	0.9%	0.5%	0.2%	0.1%	0.1%	0.1%	0.1%
Cohasset	8.8%	0.4%	0.7%	0.9%	0.5%	0.2%	0.1%	0.1%	0.1%	0.1%
Pembroke	8.8%	0.3%	0.7%	0.8%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%
Abbington	8.8%	0.3%	0.6%	0.7%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%
Rockland	8.8%	0.3%	0.6%	0.7%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%
Scituate	8.8%	0.3%	0.6%	0.7%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%
East Bridgewater	8.8%	0.3%	0.6%	0.7%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%
Easton	8.8%	0.3%	0.5%	0.7%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%
Hanover	8.8%	0.2%	0.5%	0.6%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%
Bridgewater	8.8%	0.2%	0.4%	0.6%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%
Norwell	8.8%	0.2%	0.4%	0.6%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%
Avon	8.1%	0.2%	0.4%	0.5%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%
Hanson	6.7%	0.2%	0.3%	0.5%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%
Brockton	5.3%	0.1%	0.3%	0.4%	0.3%	0.1%	0.1%	0.1%	0.1%	0.1%
Stoughton	3.6%	0.1%	0.2%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Sharon	2.2%	0.1%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
West Bridgewater	-1.0%	0.0%	-0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Suburban Power Supply Area	**13.1%**	**0.1%**	**0.2%**	**0.5%**	**0.4%**	**0.2%**	**0.2%**	**0.1%**	**0.1%**	**0.1%**
Everett	13.1%	0.4%	0.6%	1.2%	0.7%	0.3%	0.2%	0.1%	0.1%	0.1%
Revere	13.1%	0.1%	0.2%	0.5%	0.4%	0.2%	0.2%	0.1%	0.1%	0.1%
Swampscott	13.1%	0.1%	0.2%	0.5%	0.4%	0.2%	0.2%	0.1%	0.1%	0.1%
Nahant	13.1%	0.1%	0.2%	0.5%	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW									
	2010	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**
Medford	11.8%	0.1%	0.2%	0.4%	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%
Melrose	9.6%	0.1%	0.2%	0.4%	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%
Saugus	7.9%	0.1%	0.1%	0.3%	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%
Malden	7.4%	0.1%	0.1%	0.3%	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%
Winthrop	6.8%	0.1%	0.1%	0.3%	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%
Lynn	2.5%	0.0%	0.0%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%
Leominster Power Supply Area	**3.7%**	**0.3%**	**0.4%**	**0.6%**	**0.3%**	**0.1%**	**0.1%**	**0.0%**	**0.0%**	**0.0%**
Dunstable	8.0%	2.4%	3.2%	4.0%	1.4%	0.3%	0.1%	0.0%	0.0%	0.0%
Berlin	3.7%	1.9%	2.5%	3.2%	1.1%	0.3%	0.1%	0.0%	0.0%	0.0%
Shirley	3.7%	1.7%	2.2%	2.8%	1.0%	0.2%	0.1%	0.0%	0.0%	0.0%
Bolton	3.7%	1.4%	1.8%	2.4%	0.9%	0.2%	0.1%	0.0%	0.0%	0.0%
Lancaster	3.7%	1.2%	1.6%	2.1%	0.8%	0.2%	0.1%	0.0%	0.0%	0.0%
Harvard	3.7%	1.1%	1.5%	1.9%	0.7%	0.2%	0.1%	0.0%	0.0%	0.0%
Ayer	3.7%	1.0%	1.2%	1.7%	0.6%	0.2%	0.1%	0.0%	0.0%	0.0%
Groton	3.7%	0.6%	0.8%	1.1%	0.5%	0.1%	0.1%	0.0%	0.0%	0.0%
Clinton	1.2%	0.1%	0.1%	0.3%	0.2%	0.1%	0.1%	0.0%	0.0%	0.0%
Pepperell	0.1%	0.0%	0.0%	0.2%	0.2%	0.1%	0.1%	0.0%	0.0%	0.0%
Leominster	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%
Northampton Power Supply Area	**4.6%**	**0.2%**	**0.3%**	**0.5%**	**0.3%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**
#REF!	13.5%	0.4%	0.7%	1.1%	0.6%	0.2%	0.1%	0.1%	0.1%	0.1%
#REF!	8.6%	0.3%	0.5%	0.8%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%
#REF!	4.3%	0.1%	0.2%	0.5%	0.3%	0.1%	0.1%	0.1%	0.1%	0.1%
Nantucket Power Supply Area	**12.0%**	**2.0%**	**2.9%**	**3.2%**	**1.8%**	**1.2%**	**1.2%**	**1.3%**	**1.2%**	**1.2%**
Nantucket	12.0%	2.0%	2.9%	3.2%	1.8%	1.2%	1.2%	1.3%	1.2%	1.2%
Narragansett Electric Company	**8.5%**	**1.4%**	**2.4%**	**2.6%**	**1.9%**	**1.5%**	**1.4%**	**1.3%**	**1.2%**	**1.1%**
Western Narragansett Power Supply Area	**7.7%**	**2.6%**	**3.7%**	**3.9%**	**2.9%**	**2.5%**	**2.3%**	**2.2%**	**2.0%**	**1.9%**
West Greenwich	14.0%	13.3%	18.1%	14.4%	7.9%	4.7%	2.3%	2.2%	2.0%	1.9%
Smithfield	7.7%	4.5%	6.2%	5.8%	3.8%	2.9%	2.3%	2.2%	2.0%	1.9%
Glouster	7.7%	4.0%	5.5%	5.2%	3.5%	2.7%	2.3%	2.2%	2.0%	1.9%
Tiverton	7.7%	3.6%	5.0%	4.8%	3.3%	2.7%	2.3%	2.2%	2.0%	1.9%
Richmond	7.7%	3.3%	4.6%	4.5%	3.2%	2.6%	2.3%	2.2%	2.0%	1.9%
South Kingstown	7.7%	3.2%	4.5%	4.4%	3.1%	2.6%	2.3%	2.2%	2.0%	1.9%
Charlestown	7.7%	3.2%	4.4%	4.4%	3.1%	2.6%	2.3%	2.2%	2.0%	1.9%
West Warwick	7.8%	2.6%	3.6%	3.8%	2.8%	2.4%	2.3%	2.2%	2.0%	1.9%
Exeter	7.7%	2.6%	3.5%	3.7%	2.8%	2.4%	2.3%	2.2%	2.0%	1.9%
Jamestown	7.6%	2.6%	3.5%	3.7%	2.8%	2.4%	2.3%	2.2%	2.0%	1.9%
Foster	7.4%	2.5%	3.4%	3.6%	2.8%	2.4%	2.3%	2.2%	2.0%	1.9%
Westerly	7.1%	2.4%	3.3%	3.5%	2.7%	2.4%	2.3%	2.2%	2.0%	1.9%
Scituate	6.3%	2.1%	2.9%	3.3%	2.6%	2.3%	2.3%	2.2%	2.0%	1.9%
Warwick	5.9%	2.0%	2.8%	3.1%	2.5%	2.3%	2.3%	2.2%	2.0%	1.9%
Little Compton	5.5%	1.9%	2.6%	3.0%	2.4%	2.3%	2.3%	2.2%	2.0%	1.9%
Johnston	5.2%	1.8%	2.5%	2.9%	2.4%	2.3%	2.3%	2.2%	2.0%	1.9%

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Cranston	4.9%	1.7%	2.3%	2.8%	2.3%	2.2%	2.3%	2.2%	2.0%	1.9%
North Kingstown	4.8%	1.6%	2.3%	2.7%	2.3%	2.2%	2.3%	2.2%	2.0%	1.9%
Coventry	4.5%	1.6%	2.2%	2.7%	2.3%	2.2%	2.3%	2.2%	2.0%	1.9%
Hopkington	4.1%	1.4%	2.0%	2.5%	2.2%	2.2%	2.3%	2.2%	2.0%	1.9%
Narragansett	3.7%	1.3%	1.8%	2.4%	2.1%	2.2%	2.3%	2.2%	2.0%	1.9%
East Greenwich	-0.3%	-0.1%	-0.2%	0.8%	1.4%	1.8%	2.3%	2.2%	2.0%	1.9%
Newport Power Supply Area	**1.3%**	**0.9%**	**2.4%**	**2.7%**	**1.4%**	**0.9%**	**0.8%**	**0.6%**	**0.5%**	**0.4%**
Portsmouth	2.6%	1.7%	4.7%	4.6%	2.1%	1.2%	0.8%	0.6%	0.5%	0.4%
Middletown	2.5%	1.6%	4.4%	4.4%	2.0%	1.1%	0.8%	0.6%	0.5%	0.4%
Newport	0.3%	0.2%	0.5%	1.1%	0.9%	0.8%	0.8%	0.6%	0.5%	0.4%
Providence Power Supply Area	**15.3%**	**0.2%**	**1.0%**	**1.3%**	**0.7%**	**0.4%**	**0.4%**	**0.3%**	**0.2%**	**0.2%**
Barrington	15.3%	0.3%	1.6%	1.9%	0.9%	0.5%	0.4%	0.3%	0.2%	0.2%
Bristol	15.3%	0.2%	1.3%	1.6%	0.8%	0.5%	0.4%	0.3%	0.2%	0.2%
Providence	15.3%	0.2%	1.2%	1.5%	0.8%	0.5%	0.4%	0.3%	0.2%	0.2%
Warren	13.7%	0.2%	0.9%	1.2%	0.6%	0.4%	0.4%	0.3%	0.2%	0.2%
North Providence	5.0%	0.1%	0.3%	0.6%	0.5%	0.4%	0.4%	0.3%	0.2%	0.2%
East Providence	1.9%	0.0%	0.1%	0.4%	0.4%	0.4%	0.4%	0.3%	0.2%	0.2%
Blackstone Valley Power Supply Area	**4.5%**	**-0.1%**	**0.5%**	**0.8%**	**0.4%**	**0.3%**	**0.2%**	**0.2%**	**0.2%**	**0.1%**
Lincoln	4.5%	-0.3%	2.7%	3.2%	1.3%	0.5%	0.2%	0.2%	0.2%	0.1%
Cumberland	4.5%	-0.3%	2.7%	3.2%	1.3%	0.5%	0.2%	0.2%	0.2%	0.1%
North Smithfield	4.5%	-0.1%	1.2%	1.5%	0.7%	0.4%	0.2%	0.2%	0.2%	0.1%
Burrillville	3.3%	0.0%	0.3%	0.6%	0.3%	0.3%	0.2%	0.2%	0.2%	0.1%
Woonsocket	1.7%	0.0%	0.2%	0.4%	0.3%	0.2%	0.2%	0.2%	0.2%	0.1%
Pawtucket	1.0%	0.1%	0.1%	10.0%	0.1%	0.1%	0.2%	0.2%	0.2%	0.1%
Central Falls	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.2%	0.2%	0.1%
Granite State Electric	**4.8%**	**2.6%**	**3.0%**	**2.5%**	**1.7%**	**1.5%**	**1.4%**	**1.5%**	**1.4%**	**1.4%**
Western Granite State Power Supply Area	**-1.9%**	**3.2%**	**3.9%**	**3.3%**	**2.0%**	**1.7%**	**1.6%**	**1.6%**	**1.6%**	**1.6%**
Bath	-5.2%	9.5%	11.2%	7.7%	3.9%	2.5%	1.6%	1.6%	1.6%	1.6%
Surry	-3.4%	6.0%	7.1%	5.2%	2.8%	2.0%	1.6%	1.6%	1.6%	1.6%
Lebanon	-2.5%	4.3%	5.1%	4.0%	2.3%	1.8%	1.6%	1.6%	1.6%	1.6%
Grafton	-1.9%	3.2%	3.8%	3.2%	2.0%	1.7%	1.6%	1.6%	1.6%	1.6%
Marlow	-1.6%	2.7%	3.2%	2.8%	1.8%	1.6%	1.6%	1.6%	1.6%	1.6%
Charlestown	-1.5%	2.4%	2.9%	2.7%	1.8%	1.6%	1.6%	1.6%	1.6%	1.6%
Hanover	-1.4%	2.3%	2.8%	2.6%	1.7%	1.6%	1.6%	1.6%	1.6%	1.6%
Cornish	-1.3%	2.2%	2.6%	2.4%	1.7%	1.5%	1.6%	1.6%	1.6%	1.6%
Enfield	-1.3%	2.1%	2.5%	2.4%	1.7%	1.5%	1.6%	1.6%	1.6%	1.6%
Canaan	-1.2%	1.9%	2.3%	2.3%	1.6%	1.5%	1.6%	1.6%	1.6%	1.6%
Plainfield	-1.1%	1.9%	2.2%	2.2%	1.6%	1.5%	1.6%	1.6%	1.6%	1.6%
Alstead	-0.8%	1.3%	1.5%	1.8%	1.4%	1.4%	1.6%	1.6%	1.6%	1.6%
Walpole	-0.7%	1.2%	1.4%	1.7%	1.4%	1.4%	1.6%	1.6%	1.6%	1.6%
Acworth	-0.6%	0.9%	1.1%	1.5%	1.3%	1.4%	1.6%	1.6%	1.6%	1.6%
Monroe	-0.2%	0.4%	0.4%	1.1%	1.1%	1.3%	1.6%	1.6%	1.6%	1.6%

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW									
	2010	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**
Orange	0.2%	-0.3%	-0.4%	0.6%	0.9%	1.2%	1.6%	1.6%	1.6%	1.6%
Langdon	0.4%	-0.6%	-0.7%	0.4%	0.8%	1.2%	1.6%	1.6%	1.6%	1.6%
Eastern Granite State Power Supply Area	**11.6%**	**2.1%**	**2.2%**	**1.9%**	**1.4%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**
Derry	11.0%	10.7%	11.7%	7.9%	4.6%	3.0%	1.3%	1.3%	1.3%	1.3%
Pelham	7.2%	4.3%	4.5%	3.2%	2.1%	1.7%	1.3%	1.3%	1.3%	1.3%
Windham	6.0%	2.8%	2.9%	2.2%	1.6%	1.4%	1.3%	1.3%	1.3%	1.3%
Salem	4.2%	1.1%	1.2%	1.2%	1.1%	1.2%	1.3%	1.3%	1.3%	1.3%

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Massachusetts Electric Company	**4,419.680**	**4,933.186**	**4,990.365**	**5,074.874**	**5,164.642**	**5,219.686**	**5,258.839**	**5,294.604**	**5,331.055**	**5,364.421**	**5,397.214**
Uxbridge Power Supply Area	**154.459**	**165.163**	**170.050**	**177.243**	**184.496**	**189.509**	**193.236**	**197.069**	**201.098**	**204.872**	**208.777**
Upton	7.812	8.848	9.329	10.050	10.706	11.112	11.374	11.599	11.836	12.058	12.288
Uxbridge	17.089	18.916	19.760	21.014	22.187	22.934	23.440	23.905	24.393	24.851	25.325
Millville	2.417	2.656	2.766	2.929	3.082	3.181	3.250	3.314	3.382	3.445	3.511
Mendon	6.823	7.470	7.768	8.207	8.626	8.898	9.087	9.267	9.457	9.634	9.818
Whitinsville	22.108	23.580	24.250	25.234	26.233	26.931	27.454	27.999	28.571	29.107	29.662
Blackstone	8.406	8.964	9.217	9.589	9.967	10.231	10.429	10.636	10.854	11.057	11.268
Douglas	9.119	9.659	9.904	10.262	10.636	10.903	11.109	11.329	11.561	11.778	12.003
Milford	72.473	76.476	78.292	80.945	83.765	85.815	87.417	89.151	90.973	92.681	94.447
Hopedale	8.212	8.592	8.764	9.014	9.294	9.505	9.677	9.869	10.070	10.259	10.455
Attleboro Power Supply Area	**316.714**	**351.040**	**359.043**	**369.385**	**380.463**	**389.017**	**395.903**	**402.925**	**410.201**	**417.146**	**424.261**
Franklin	78.233	96.979	101.371	107.075	112.484	116.131	118.638	120.742	122.922	125.003	127.135
Wrentham	20.287	23.975	24.831	25.934	27.012	27.768	28.318	28.821	29.341	29.838	30.347
Bellingham	17.005	19.622	20.229	21.009	21.790	22.354	22.779	23.183	23.601	24.001	24.410
Rehoboth	13.195	14.967	15.375	15.897	16.432	16.828	17.135	17.439	17.754	18.055	18.362
Norton	27.361	30.640	31.393	32.352	33.353	34.113	34.719	35.335	35.973	36.582	37.206
Foxboro	34.637	38.286	39.122	40.183	41.321	42.209	42.936	43.698	44.487	45.240	46.012
Plainville	13.179	14.318	14.578	14.907	15.278	15.580	15.839	16.120	16.411	16.689	16.973
Seekonk	27.913	30.109	30.609	31.241	31.971	32.579	33.110	33.697	34.305	34.886	35.481
Attleboro	84.905	82.144	81.534	80.787	80.823	81.454	82.429	83.892	85.406	86.852	88.334
Marlboro Power Supply Area	**231.303**	**291.257**	**297.440**	**305.908**	**314.291**	**320.767**	**326.220**	**331.329**	**336.363**	**341.241**	**346.067**
Southboro	19.089	39.026	41.145	44.135	46.723	48.416	49.557	50.334	51.098	51.840	52.573
Marlboro	115.707	143.542	146.378	150.214	154.053	157.068	159.663	162.163	164.627	167.015	169.377
Northboro	22.530	27.181	27.653	28.290	28.948	29.481	29.954	30.423	30.885	31.333	31.776
Westboro	73.977	81.507	82.263	83.270	84.568	85.803	87.045	88.409	89.752	91.054	92.341
Essex Power Supply Area	**212.004**	**234.240**	**239.632**	**247.015**	**254.534**	**259.196**	**262.922**	**266.315**	**269.818**	**273.086**	**276.254**
Beverly	61.379	72.978	75.809	79.713	83.322	85.334	86.757	87.876	89.032	90.111	91.156
Wenham	4.962	5.768	5.964	6.233	6.486	6.631	6.737	6.824	6.914	6.997	7.078
Topsfield	6.710	7.723	7.969	8.307	8.629	8.815	8.953	9.068	9.188	9.299	9.407
Hamilton	7.822	8.902	9.164	9.523	9.870	10.073	10.227	10.359	10.496	10.623	10.746
Manchester	6.117	6.941	7.140	7.414	7.679	7.836	7.955	8.057	8.163	8.262	8.358
Essex	4.248	4.536	4.605	4.699	4.806	4.879	4.943	5.007	5.073	5.134	5.194
Salem	59.179	63.120	64.065	65.346	66.811	67.818	68.705	69.592	70.507	71.361	72.189
Gloucester	52.197	54.557	55.121	55.882	56.880	57.634	58.348	59.101	59.878	60.603	61.306
Rockport	9.391	9.716	9.794	9.898	10.052	10.176	10.298	10.431	10.568	10.696	10.820
Webster Power Supply Area	**181.350**	**189.535**	**193.539**	**198.549**	**203.673**	**207.290**	**210.245**	**213.012**	**215.671**	**218.227**	**220.725**
Charlton	16.169	18.006	18.920	20.085	21.123	21.746	22.160	22.451	22.731	23.001	23.264
Sutton	9.709	10.446	10.809	11.265	11.690	11.960	12.156	12.316	12.470	12.618	12.762
Dudley	12.326	12.987	13.309	13.711	14.107	14.376	14.589	14.781	14.965	15.142	15.316
Sturbridge	19.989	21.037	21.548	22.184	22.814	23.244	23.585	23.896	24.194	24.481	24.761
Millbury	21.460	22.521	23.039	23.684	24.331	24.778	25.138	25.468	25.786	26.092	26.391
Grafton	26.005	27.221	27.813	28.552	29.301	29.825	30.252	30.650	31.033	31.400	31.760
Spencer	14.471	14.953	15.186	15.475	15.794	16.036	16.249	16.463	16.668	16.866	17.059

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Southbridge	20.705	21.240	21.498	21.816	22.197	22.506	22.791	23.091	23.380	23.657	23.927
Oxford	17.981	18.398	18.599	18.847	19.156	19.413	19.655	19.914	20.162	20.401	20.635
Webster	22.535	22.726	22.818	22.929	23.161	23.405	23.671	23.982	24.282	24.570	24.851
Worcester Power Supply Area	**323.300**	**360.729**	**366.890**	**373.291**	**380.615**	**386.856**	**392.417**	**397.787**	**403.047**	**408.203**	**413.298**
Rutland	5.513	8.270	8.739	9.241	9.730	10.070	10.299	10.440	10.578	10.713	10.847
Oakham	1.515	1.926	1.995	2.067	2.139	2.193	2.233	2.263	2.293	2.323	2.352
New Braintree	1.124	1.420	1.470	1.522	1.574	1.613	1.642	1.664	1.686	1.708	1.729
E. Brookfield	1.977	2.419	2.492	2.569	2.648	2.708	2.754	2.792	2.829	2.865	2.901
Brookfield	2.723	3.332	3.433	3.539	3.648	3.730	3.794	3.846	3.897	3.947	3.996
Leicester	10.384	12.058	12.334	12.622	12.932	13.179	13.385	13.568	13.747	13.923	14.097
W. Brookfield	3.970	4.572	4.671	4.774	4.885	4.976	5.052	5.121	5.188	5.255	5.320
Worcester	260.961	289.148	293.773	298.561	304.121	308.932	313.292	317.579	321.778	325.894	329.962
N. Brookfield	6.219	6.881	6.989	7.101	7.232	7.345	7.448	7.550	7.650	7.748	7.845
Auburn	28.914	30.703	30.995	31.296	31.705	32.109	32.519	32.964	33.400	33.827	34.250
South Berkshire Power Supply Area	**44.087**	**48.660**	**49.785**	**51.755**	**53.274**	**53.908**	**54.230**	**54.602**	**55.016**	**55.415**	**55.807**
Alford	0.613	0.714	0.739	0.783	0.814	0.826	0.832	0.838	0.844	0.850	0.856
Sheffield	8.814	10.230	10.581	11.199	11.641	11.811	11.890	11.972	12.062	12.150	12.236
Monterey	1.202	1.360	1.400	1.468	1.519	1.539	1.549	1.560	1.571	1.583	1.594
Mt.Washington	0.263	0.289	0.296	0.307	0.316	0.320	0.321	0.324	0.326	0.328	0.331
New Marlboro	1.906	2.092	2.138	2.217	2.280	2.306	2.320	2.336	2.353	2.370	2.387
Lenox	9.618	10.527	10.751	11.141	11.448	11.578	11.646	11.726	11.815	11.901	11.985
Egremont	2.004	2.174	2.215	2.288	2.346	2.372	2.385	2.402	2.420	2.437	2.455
Gt. Barrington	13.542	14.666	14.941	15.421	15.810	15.980	16.071	16.181	16.304	16.422	16.539
Stockbridge	4.302	4.641	4.723	4.868	4.987	5.040	5.068	5.103	5.142	5.179	5.216
W.Stockbridge	1.824	1.967	2.002	2.063	2.113	2.135	2.147	2.162	2.178	2.194	2.210
Palmer Power Supply Area	**159.833**	**189.808**	**192.410**	**196.775**	**200.795**	**203.171**	**204.864**	**206.303**	**207.656**	**208.953**	**210.314**
Belchertown	13.416	19.370	19.888	20.759	21.469	21.834	22.056	22.211	22.356	22.496	22.643
East Longmeadow	41.857	56.787	58.080	60.245	62.045	62.999	63.602	64.049	64.469	64.872	65.294
Wilbraham	15.166	20.102	20.529	21.241	21.839	22.160	22.366	22.523	22.671	22.813	22.961
Brimfield	4.103	5.162	5.253	5.404	5.536	5.609	5.658	5.698	5.735	5.771	5.809
Hampden	5.502	6.727	6.832	7.006	7.161	7.249	7.311	7.362	7.411	7.457	7.506
Hardwick	3.341	3.936	3.987	4.071	4.149	4.196	4.230	4.260	4.288	4.315	4.343
Wales	1.947	2.291	2.321	2.369	2.415	2.442	2.462	2.479	2.495	2.511	2.527
Granby	6.378	7.494	7.590	7.747	7.894	7.983	8.047	8.104	8.157	8.208	8.261
Holland	2.738	3.182	3.220	3.283	3.342	3.379	3.406	3.430	3.452	3.474	3.496
Ware	18.863	20.734	20.893	21.154	21.438	21.633	21.792	21.945	22.089	22.227	22.372
Monson	11.521	12.575	12.665	12.811	12.976	13.091	13.186	13.278	13.365	13.449	13.536
Warren	7.679	7.039	6.986	6.901	6.880	6.899	6.935	6.984	7.030	7.073	7.120
Palmer-3Rivers	27.322	24.407	24.166	23.782	23.651	23.697	23.813	23.980	24.137	24.288	24.446
Adams Power Supply Area	**53.698**	**59.205**	**59.899**	**60.833**	**61.724**	**62.286**	**62.698**	**63.134**	**63.590**	**64.039**	**64.484**
Hancock	2.438	4.657	4.946	5.348	5.666	5.821	5.899	5.940	5.983	6.025	6.067
Charlemont	1.345	1.557	1.583	1.617	1.647	1.664	1.676	1.688	1.700	1.712	1.724
Florida-Drury	0.522	0.588	0.596	0.607	0.617	0.622	0.627	0.631	0.636	0.640	0.644
Adams	15.129	16.915	17.134	17.420	17.683	17.845	17.963	18.088	18.218	18.347	18.474

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Heath	0.547	0.600	0.607	0.615	0.623	0.629	0.633	0.637	0.642	0.646	0.651
Rowe	0.941	1.013	1.021	1.033	1.044	1.052	1.059	1.066	1.074	1.081	1.089
Williamstown	12.725	13.412	13.496	13.604	13.729	13.822	13.901	13.998	14.099	14.198	14.297
Clarksburg	0.967	1.012	1.017	1.025	1.033	1.040	1.046	1.053	1.061	1.068	1.076
Hawley	0.227	0.236	0.237	0.238	0.240	0.242	0.243	0.245	0.246	0.248	0.250
Cheshire	2.427	2.515	2.526	2.540	2.559	2.574	2.588	2.606	2.625	2.644	2.662
North Adams	16.175	16.631	16.686	16.758	16.868	16.965	17.056	17.175	17.299	17.421	17.542
Monroe	0.256	0.070	0.050	0.027	0.014	0.009	0.007	0.008	0.008	0.008	0.008
Fall River Power Supply Area	**179.590**	**216.356**	**217.862**	**220.220**	**223.184**	**225.125**	**226.301**	**227.539**	**228.892**	**230.094**	**231.372**
Fall River	125.84	151.60	152.65	154.31	156.38	157.74	158.57	159.43	160.38	161.22	162.12
Westport	5.71	6.88	6.92	7.00	7.09	7.15	7.19	7.23	7.27	7.31	7.35
Somerset	20.48	24.67	24.85	25.12	25.45	25.67	25.81	25.95	26.10	26.24	26.39
Swansea	20.99	25.28	25.46	25.74	26.08	26.31	26.45	26.59	26.75	26.89	27.04
Dighton	6.58	7.92	7.98	8.06	8.17	8.24	8.29	8.33	8.38	8.43	8.47
Merrimack Valley Power Supply Area	**1,036.022**	**1,155.183**	**1,167.478**	**1,189.639**	**1,212.526**	**1,221.426**	**1,225.757**	**1,228.462**	**1,231.700**	**1,233.796**	**1,235.396**
Westford	47.205	65.656	67.596	71.161	74.317	75.332	75.717	75.884	76.084	76.214	76.312
Boxford	9.202	11.819	12.092	12.589	13.039	13.188	13.248	13.278	13.313	13.335	13.353
Methuen	62.509	77.580	79.145	81.982	84.588	85.474	85.843	86.032	86.259	86.406	86.518
Billerica	109.508	131.467	133.738	137.840	141.687	143.034	143.616	143.933	144.312	144.558	144.746
Tyngsboro	17.121	20.398	20.736	21.346	21.921	22.124	22.213	22.262	22.320	22.358	22.387
Dracut	29.714	35.261	35.834	36.867	37.845	38.191	38.344	38.428	38.529	38.595	38.645
Chelmsford	73.534	86.304	87.620	89.989	92.254	93.067	93.430	93.636	93.883	94.043	94.165
Salisbury	12.813	14.777	14.979	15.342	15.695	15.825	15.884	15.919	15.961	15.988	16.009
West Newbury	4.697	5.362	5.430	5.553	5.674	5.719	5.740	5.752	5.768	5.777	5.785
Newbury	8.842	10.041	10.163	10.384	10.604	10.686	10.725	10.749	10.777	10.796	10.809
Tewksbury	55.868	62.006	62.634	63.754	64.921	65.380	65.607	65.752	65.925	66.037	66.123
Amesbury	22.506	24.941	25.190	25.634	26.098	26.281	26.372	26.430	26.500	26.545	26.579
Haverhill	89.723	98.738	99.659	101.302	103.048	103.750	104.103	104.333	104.608	104.786	104.922
Newburyport	39.262	42.084	42.371	42.881	43.476	43.735	43.876	43.972	44.088	44.163	44.221
Lawrence	106.319	110.815	111.270	112.075	113.227	113.798	114.138	114.390	114.691	114.886	115.035
Lowell	153.487	159.810	160.450	161.582	163.220	164.037	164.526	164.889	165.324	165.605	165.820
Andover	124.774	128.665	129.058	129.753	130.904	131.518	131.900	132.191	132.539	132.765	132.937
No. Andover	68.937	69.460	69.513	69.606	70.010	70.285	70.476	70.632	70.818	70.938	71.030
Athol Power Supply Area	**44.410**	**55.984**	**56.690**	**57.974**	**59.178**	**59.644**	**59.820**	**59.913**	**59.959**	**59.960**	**59.935**
Phillipston	1.364	2.105	2.151	2.235	2.306	2.331	2.339	2.342	2.344	2.344	2.343
Barre	4.911	7.406	7.560	7.841	8.082	8.166	8.194	8.207	8.213	8.213	8.210
Petersham	1.084	1.618	1.650	1.711	1.762	1.780	1.787	1.789	1.791	1.791	1.790
Wendall	0.696	0.983	1.000	1.032	1.060	1.070	1.074	1.076	1.076	1.076	1.076
Warwick	0.506	0.711	0.723	0.746	0.766	0.773	0.776	0.777	0.778	0.778	0.777
New Salem	0.809	1.014	1.026	1.049	1.070	1.078	1.082	1.083	1.084	1.084	1.084
Athol	12.858	15.957	16.145	16.486	16.811	16.939	16.988	17.014	17.027	17.027	17.020
Shutesbury	1.185	1.457	1.474	1.504	1.533	1.544	1.548	1.551	1.552	1.552	1.551
Orange	10.892	13.108	13.242	13.485	13.725	13.822	13.861	13.882	13.893	13.893	13.887
Royalston	0.939	1.126	1.137	1.158	1.178	1.187	1.190	1.192	1.193	1.193	1.192

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Erving	9.165	10.501	10.581	10.727	10.885	10.954	10.983	11.000	11.008	11.008	11.004
Gardner Power Supply Area	**50.164**	**54.024**	**54.486**	**55.297**	**56.119**	**56.452**	**56.579**	**56.646**	**56.679**	**56.681**	**56.664**
Hubbardston	3.193	3.769	3.839	3.963	4.073	4.111	4.123	4.128	4.131	4.131	4.130
Winchendon	8.641	9.631	9.750	9.959	10.156	10.229	10.255	10.267	10.273	10.273	10.270
Westminster	11.715	12.772	12.899	13.120	13.337	13.422	13.453	13.469	13.477	13.478	13.474
Gardner	26.615	27.852	27.999	28.255	28.553	28.689	28.747	28.781	28.798	28.799	28.791
Weymouth Power Supply Area	**259.617**	**279.571**	**280.256**	**281.917**	**283.870**	**284.848**	**285.245**	**285.464**	**285.724**	**285.881**	**285.999**
Weymouth	68.097	75.925	76.194	76.851	77.564	77.893	78.014	78.073	78.144	78.188	78.220
Quincy	140.409	150.318	150.657	151.479	152.463	152.967	153.176	153.293	153.433	153.517	153.581
Holbrook	12.701	13.526	13.554	13.623	13.706	13.750	13.768	13.779	13.791	13.799	13.805
Randolph	37.325	38.901	38.955	39.085	39.266	39.371	39.420	39.450	39.486	39.508	39.524
Hingham	1.085	0.900	0.894	0.880	0.870	0.868	0.868	0.868	0.869	0.870	0.870
Brockton Power Supply Area	**506.828**	**551.180**	**552.390**	**554.704**	**557.755**	**559.576**	**560.475**	**561.234**	**561.956**	**562.490**	**562.937**
Halifax	8.592	10.250	10.296	10.385	10.488	10.541	10.563	10.577	10.591	10.601	10.609
Whitman	16.442	19.211	19.287	19.435	19.609	19.700	19.738	19.765	19.790	19.809	19.825
Cohasset	12.412	14.436	14.492	14.599	14.726	14.793	14.822	14.842	14.861	14.875	14.887
Pembroke	24.763	28.368	28.467	28.657	28.886	29.009	29.063	29.102	29.140	29.167	29.190
Abbington	20.242	22.814	22.885	23.020	23.186	23.277	23.319	23.350	23.380	23.402	23.421
Rockland	29.721	33.397	33.497	33.690	33.928	34.059	34.119	34.165	34.209	34.242	34.269
Scituate	19.941	22.308	22.372	22.496	22.650	22.736	22.775	22.806	22.835	22.857	22.875
East Bridgewater	17.098	19.119	19.175	19.280	19.412	19.485	19.519	19.546	19.571	19.589	19.605
Easton	42.351	47.062	47.191	47.437	47.745	47.920	48.002	48.067	48.129	48.174	48.213
Hanover	27.130	29.823	29.896	30.037	30.216	30.321	30.371	30.412	30.451	30.480	30.504
Bridgewater	33.487	36.598	36.682	36.844	37.053	37.177	37.237	37.287	37.335	37.371	37.400
Norwell	22.908	25.020	25.078	25.187	25.330	25.414	25.455	25.490	25.523	25.547	25.567
Avon	18.858	20.378	20.419	20.498	20.603	20.668	20.700	20.728	20.755	20.775	20.791
Hanson	12.425	13.259	13.282	13.325	13.385	13.424	13.444	13.462	13.480	13.492	13.503
Brockton	134.612	141.745	141.938	142.303	142.856	143.229	143.436	143.631	143.815	143.952	144.066
Stoughton	47.651	49.372	49.418	49.506	49.659	49.774	49.842	49.909	49.973	50.021	50.061
Sharon	0.213	0.217	0.218	0.218	0.218	0.219	0.219	0.219	0.220	0.220	0.220
West Bridgewater	17.981	17.803	17.798	17.789	17.805	17.831	17.851	17.875	17.898	17.915	17.930
Suburban Power Supply Area	**424.797**	**480.379**	**481.019**	**481.994**	**484.271**	**485.970**	**486.965**	**487.726**	**488.435**	**489.036**	**489.600**
Everett	43.087	66.615	66.891	67.316	68.152	68.654	68.873	68.981	69.081	69.166	69.246
Revere	49.367	56.562	56.644	56.768	57.051	57.258	57.377	57.467	57.550	57.621	57.687
Swampscott	16.311	18.585	18.611	18.650	18.740	18.806	18.845	18.875	18.902	18.925	18.947
Nahant	3.233	3.667	3.672	3.680	3.697	3.710	3.717	3.723	3.729	3.733	3.738
Medford	71.080	79.437	79.533	79.676	80.019	80.282	80.441	80.567	80.684	80.783	80.877
Melrose	25.058	27.476	27.503	27.545	27.649	27.732	27.785	27.829	27.869	27.903	27.936
Saugus	42.034	45.342	45.379	45.436	45.587	45.714	45.798	45.870	45.937	45.993	46.046
Malden	62.773	67.416	67.468	67.547	67.764	67.949	68.073	68.179	68.278	68.363	68.441
Winthrop	14.640	15.630	15.641	15.658	15.705	15.747	15.775	15.800	15.823	15.842	15.861
Lynn	97.212	99.649	99.677	99.718	99.906	100.116	100.279	100.436	100.582	100.706	100.822
Leominster Power Supply Area	**187.006**	**193.839**	**194.379**	**195.104**	**196.319**	**196.920**	**197.152**	**197.279**	**197.345**	**197.354**	**197.330**
Dunstable	1.896	2.731	2.797	2.886	3.002	3.043	3.053	3.055	3.056	3.056	3.056

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Berlin	2.127	2.825	2.879	2.952	3.048	3.082	3.090	3.092	3.094	3.094	3.093
Shirley	9.405	11.929	12.126	12.387	12.731	12.857	12.888	12.897	12.901	12.902	12.900
Bolton	5.940	7.259	7.361	7.497	7.676	7.742	7.759	7.764	7.766	7.767	7.766
Lancaster	6.909	8.216	8.317	8.451	8.630	8.697	8.714	8.720	8.723	8.723	8.722
Harvard	4.935	5.768	5.832	5.917	6.031	6.074	6.085	6.089	6.091	6.092	6.091
Ayer	17.538	20.002	20.193	20.443	20.782	20.913	20.950	20.964	20.971	20.972	20.969
Groton	3.756	4.074	4.099	4.131	4.176	4.195	4.201	4.203	4.205	4.205	4.205
Clinton	25.522	25.818	25.841	25.870	25.945	25.996	26.021	26.038	26.046	26.048	26.044
Pepperell	10.760	10.767	10.768	10.768	10.786	10.803	10.812	10.819	10.823	10.823	10.822
Leominster	98.219	94.450	94.166	93.803	93.514	93.520	93.578	93.638	93.669	93.674	93.662
Northampton Power Supply Area	**54.498**	**57.032**	**57.118**	**57.270**	**57.554**	**57.725**	**57.810**	**57.864**	**57.908**	**57.946**	**57.992**
Goshen	0.831	0.943	0.947	0.954	0.964	0.970	0.972	0.973	0.974	0.974	0.975
Williamsburg	2.821	3.065	3.073	3.088	3.112	3.125	3.131	3.134	3.136	3.138	3.141
Northampton	50.846	53.024	53.098	53.228	53.477	53.630	53.707	53.757	53.798	53.833	53.876
Nantucket Power Supply Area	**34.629**	**38.789**	**39.583**	**40.738**	**42.061**	**42.799**	**43.326**	**43.857**	**44.406**	**44.951**	**45.485**
Nantucket	34.629	38.789	39.583	40.738	42.061	42.799	43.326	43.857	44.406	44.951	45.485
Narragansett Electric Company	**1,643.641**	**1,782.644**	**1,807.795**	**1,850.607**	**1,899.375**	**1,934.528**	**1,964.141**	**1,991.816**	**2,017.989**	**2,042.610**	**2,065.966**
Western Narragansett Power Supply Area	**829.540**	**893.127**	**916.508**	**950.214**	**987.110**	**1,015.758**	**1,041.059**	**1,065.188**	**1,088.410**	**1,110.694**	**1,132.214**
West Greenwich	23.317	35.157	39.821	47.015	53.784	58.052	60.777	62.186	63.542	64.843	66.099
Smithfield	42.210	48.108	50.276	53.397	56.471	58.608	60.282	61.679	63.024	64.314	65.560
Glouster	11.641	13.057	13.575	14.319	15.065	15.596	16.024	16.395	16.752	17.095	17.427
Tiverton	18.045	20.012	20.730	21.757	22.804	23.562	24.189	24.750	25.289	25.807	26.307
Richmond	11.069	12.185	12.590	13.168	13.764	14.202	14.571	14.909	15.234	15.546	15.847
South Kingstown	53.172	58.363	60.253	62.947	65.742	67.811	69.563	71.175	72.727	74.216	75.654
Charlestown	14.453	15.851	16.360	17.084	17.837	18.396	18.870	19.307	19.728	20.132	20.522
West Warwick	41.700	44.964	46.146	47.822	49.637	51.043	52.293	53.505	54.671	55.791	56.871
Exeter	7.780	8.376	8.591	8.896	9.227	9.485	9.715	9.941	10.157	10.365	10.566
Jamestown	8.188	8.809	9.034	9.352	9.700	9.970	10.213	10.450	10.677	10.896	11.107
Foster	4.442	4.769	4.887	5.055	5.239	5.383	5.513	5.641	5.764	5.882	5.996
Westerly	46.345	49.626	50.811	52.488	54.346	55.819	57.156	58.481	59.756	60.979	62.161
Scituate	11.653	12.383	12.647	13.018	13.443	13.788	14.111	14.438	14.753	15.055	15.346
Warwick	164.742	174.522	178.042	183.005	188.761	193.509	197.988	202.576	206.993	211.231	215.323
Little Compton	4.948	5.219	5.316	5.453	5.616	5.753	5.884	6.021	6.152	6.278	6.400
Johnston	45.861	48.245	49.102	50.307	51.760	52.998	54.197	55.453	56.662	57.822	58.942
Cranston	118.539	124.353	126.439	129.371	132.969	136.078	139.126	142.350	145.454	148.432	151.308
North Kingstown	84.217	88.240	89.683	91.708	94.216	96.397	98.546	100.830	103.028	105.138	107.175
Coventry	50.242	52.521	53.339	54.487	55.933	57.206	58.472	59.827	61.131	62.383	63.592
Hopkington	11.069	11.524	11.686	11.915	12.212	12.481	12.753	13.049	13.333	13.606	13.870
Narragansett	27.842	28.875	29.244	29.761	30.461	31.110	31.779	32.516	33.224	33.905	34.562
East Greenwich	28.066	27.969	27.936	27.889	28.123	28.513	29.038	29.711	30.358	30.980	31.580
Newport Power Supply Area	**130.800**	**132.523**	**133.675**	**136.872**	**140.594**	**142.623**	**143.967**	**145.070**	**145.988**	**146.713**	**147.282**
Portsmouth	28.337	29.088	29.590	30.989	32.424	33.104	33.486	33.742	33.956	34.125	34.257
Middletown	31.381	32.154	32.671	34.107	35.595	36.309	36.717	36.998	37.233	37.417	37.563
Newport	71.082	71.282	71.414	71.776	72.575	73.210	73.764	74.329	74.800	75.171	75.463

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Providence Power Supply Area	**395.867**	**456.585**	**457.371**	**461.789**	**467.611**	**470.802**	**472.919**	**474.659**	**476.107**	**477.254**	**478.155**
Barrington	13.200	17.008	17.058	17.339	17.674	17.837	17.932	17.998	18.053	18.096	18.131
Bristol	24.935	30.323	30.393	30.787	31.275	31.525	31.679	31.795	31.892	31.969	32.030
Providence	240.573	287.362	287.967	291.374	295.660	297.900	299.313	300.414	301.331	302.057	302.627
Warren	12.500	14.215	14.237	14.360	14.527	14.621	14.685	14.739	14.784	14.819	14.847
North Providence	32.796	34.422	34.443	34.558	34.778	34.937	35.068	35.197	35.305	35.390	35.457
East Providence	71.862	73.255	73.272	73.370	73.696	73.982	74.242	74.515	74.743	74.923	75.064
Blackstone Valley Power Supply Area	**287.434**	**300.408**	**300.242**	**301.733**	**304.060**	**305.344**	**306.197**	**306.899**	**307.484**	**307.949**	**308.315**
Lincoln	34.509	46.123	45.979	47.233	48.751	49.365	49.634	49.748	49.842	49.918	49.977
Cumberland	31.417	41.979	41.848	42.986	44.362	44.919	45.163	45.267	45.353	45.421	45.475
North Smithfield	18.285	20.553	20.525	20.764	21.072	21.212	21.287	21.335	21.376	21.408	21.434
Burrillville	8.111	8.381	8.378	8.406	8.454	8.482	8.504	8.523	8.539	8.552	8.562
Woonsocket	60.090	61.098	61.086	61.190	61.423	61.594	61.736	61.877	61.995	62.089	62.163
Pawtucket	109.809	99.999	100.116	99.135	98.251	98.088	98.178	98.403	98.591	98.740	98.857
Central Falls	25.212	22.275	22.309	22.020	21.746	21.684	21.696	21.746	21.787	21.820	21.846
Granite State Electric	**187.298**	**196.248**	**201.417**	**207.480**	**212.741**	**216.377**	**219.650**	**222.782**	**226.024**	**229.281**	**232.529**
Western Granite State Power Supply Area	**94.440**	**92.625**	**95.627**	**99.328**	**102.574**	**104.656**	**106.428**	**108.085**	**109.822**	**111.574**	**113.308**
Bath	0.012	0.011	0.013	0.014	0.015	0.016	0.016	0.016	0.017	0.017	0.017
Surry	0.058	0.056	0.059	0.063	0.067	0.068	0.070	0.071	0.072	0.073	0.074
Lebanon	50.553	49.286	51.394	54.005	56.174	57.487	58.534	59.445	60.401	61.364	62.318
Grafton	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015
Marlow	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009
Charlestown	4.976	4.903	5.022	5.168	5.305	5.399	5.485	5.570	5.660	5.750	5.839
Hanover	23.272	22.944	23.480	24.133	24.754	25.184	25.579	25.978	26.395	26.816	27.233
Cornish	0.193	0.191	0.195	0.200	0.205	0.208	0.212	0.215	0.218	0.222	0.225
Enfield	3.888	3.839	3.919	4.017	4.113	4.181	4.246	4.312	4.381	4.451	4.520
Canaan	2.577	2.547	2.596	2.656	2.716	2.759	2.801	2.845	2.890	2.937	2.982
Plainfield	1.274	1.259	1.283	1.312	1.341	1.362	1.383	1.404	1.427	1.450	1.472
Alstead	1.439	1.428	1.446	1.468	1.494	1.515	1.536	1.560	1.585	1.611	1.636
Walpole	5.012	4.975	5.035	5.107	5.195	5.267	5.342	5.425	5.512	5.600	5.687
Acworth	0.239	0.237	0.240	0.242	0.246	0.249	0.252	0.256	0.261	0.265	0.269
Monroe	0.339	0.338	0.339	0.341	0.344	0.348	0.353	0.358	0.364	0.370	0.376
Orange	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.046	0.046	0.047	0.048
Langdon	0.543	0.545	0.542	0.539	0.541	0.545	0.552	0.561	0.570	0.579	0.588
Eastern Granite State Power Supply Area	**92.858**	**103.623**	**105.790**	**108.152**	**110.166**	**111.721**	**113.222**	**114.697**	**116.202**	**117.707**	**119.221**
Derry	1.100	2.097	2.321	2.592	2.797	2.926	3.014	3.054	3.094	3.134	3.174
Pelham	17.787	22.619	23.596	24.664	25.464	25.995	26.427	26.771	27.122	27.473	27.827
Windham	3.738	4.345	4.466	4.596	4.700	4.774	4.842	4.905	4.969	5.034	5.098
Salem	70.234	74.561	75.407	76.299	77.207	78.025	78.940	79.968	81.017	82.066	83.122

Annual MWh Energy and Trend Growth by Power Supply Area and Town

1. Nantucket PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Nantucket	4.1%	96,775	100,527	108,220	118,424	119,260	121,612	135,332	137,459	142,678	139,490	143,689

2. Western Granite State PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Bath	7.7%	27	30	30	29	33	37	39	49	62	72	58
Surry	5.1%	186	182	180	215	229	231	258	286	300	286	290
Lebanon	4.0%	173,163	183,241	188,863	194,037	204,139	207,788	217,624	232,078	248,211	251,109	259,409
Charlestown	2.5%	19,578	20,007	20,563	21,395	21,817	21,124	22,009	22,708	23,799	24,401	26,159
Marlow	2.5%	34	37	41	41	34	34	32	37	42	43	40
Grafton	2.6%	51	61	67	69	72	88	75	75	74	63	64
Enfield	2.0%	16,760	16,704	17,568	18,174	18,423	18,492	19,189	19,392	20,096	20,265	20,536
Cornish	2.0%	909	913	939	924	978	999	1,065	1,059	1,058	1,020	1,021
Hanover	2.2%	97,350	100,894	105,175	107,722	111,339	114,245	114,258	114,794	119,797	122,074	122,500
Canaan	1.9%	11,333	11,563	11,774	12,166	12,126	12,138	12,601	12,882	13,463	13,606	13,644
Plainfield	1.8%	5,842	5,737	6,058	6,222	6,292	6,241	6,498	6,808	6,898	6,747	6,747
Alstead	1.2%	7,070	7,073	7,367	7,379	7,421	7,264	7,993	8,068	8,081	7,874	7,690
Walpole	1.2%	23,740	24,782	24,818	24,736	25,185	25,172	25,926	26,257	27,251	26,867	26,795
Orange	-0.3%	245	249	255	249	343	231	232	243	250	253	240
Acworth	0.9%	1,193	1,197	1,202	1,249	1,239	1,159	1,365	1,306	1,278	1,284	1,282
Langdon	-0.6%	3,145	3,111	3,208	3,160	3,101	2,984	3,274	2,936	2,990	2,981	2,980
Monroe	0.4%	1,693	1,712	1,814	1,789	1,682	1,693	1,754	1,792	1,832	1,813	1,833
Western Geco PSA	3.0%	362,320	377,492	389,924	399,555	414,454	419,921	434,193	450,770	475,481	480,758	491,288

3. Uxbridge PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Upton	4.7%	24,798	26,168	27,737	28,992	30,114	32,791	34,348	36,378	39,110	37,023	38,320
Uxbridge	4.0%	56,161	58,100	60,888	63,037	65,899	68,885	74,185	75,638	80,010	79,972	82,243
Millville	3.6%	8,729	9,030	9,562	9,642	9,805	11,091	11,815	11,944	12,541	11,909	11,561
Mendon	3.6%	23,777	24,259	25,973	26,927	27,958	29,547	31,047	31,733	33,190	32,117	32,540
Whitinsville	2.7%	77,774	80,992	84,726	85,673	90,166	93,104	93,520	94,311	101,398	99,729	103,198
Blackstone	2.6%	31,448	32,316	33,930	35,829	38,209	37,078	39,035	39,321	40,876	39,296	39,230
Milford	2.3%	263,830	270,646	274,150	281,863	303,438	314,477	309,794	313,165	325,327	323,766	335,366
Douglas	2.3%	36,064	36,544	37,803	38,500	39,021	40,842	43,971	46,136	46,888	42,664	42,327
Hopedale	1.9%	30,714	31,072	33,912	34,546	35,416	33,705	36,050	36,497	38,541	36,948	37,741
Uxbridge PSA	2.7%	553,294	569,128	588,682	605,009	640,025	661,521	673,763	685,123	717,882	703,425	722,525

Annual MWh Energy and Trend Growth by Power Supply Area and Town

4. Marlboro PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Southboro	7.0%	79,232	87,965	92,119	98,092	117,438	130,672	135,859	140,947	147,587	152,141	149,568
Marlboro	2.8%	485,318	499,171	539,009	561,007	581,420	572,182	571,379	588,573	618,384	622,374	651,725
Northboro	2.4%	97,893	98,052	104,276	108,654	112,159	111,029	115,546	118,511	124,079	122,834	124,748
Westboro	1.3%	344,352	344,288	347,204	357,362	371,451	376,223	376,130	375,149	390,773	377,861	387,680
Marlboro PSA	2.7%	1,006,795	1,029,476	1,082,608	1,125,115	1,182,467	1,190,106	1,198,913	1,223,179	1,280,823	1,275,210	1,313,722

5. Western Narragansett PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
West Greenwich	11.0%	48,639	49,526	50,070	47,305	61,029	69,278	82,567	113,234	119,179	118,906	132,788
Smithfield	4.1%	134,793	143,621	152,484	156,989	170,886	183,644	187,872	189,462	196,021	194,934	198,442
Glouster	3.7%	38,325	39,141	40,804	41,399	42,762	45,392	51,987	51,882	54,102	52,270	54,114
Tiverton	3.4%	59,552	61,399	66,688	68,145	69,702	76,551	76,764	76,602	80,457	82,526	83,220
South Kingstown	3.1%	179,847	188,654	197,445	197,685	204,256	219,874	224,883	234,389	240,846	237,204	243,448
Charlestown	3.0%	49,999	50,375	53,079	55,674	57,355	59,636	64,576	66,068	66,070	63,685	66,137
Richmond	3.0%	39,170	42,518	45,614	46,262	48,119	50,242	51,197	52,924	54,981	51,691	50,790
West Warwick	2.5%	148,713	156,251	159,917	161,325	166,931	172,929	176,372	186,020	192,108	185,009	188,545
Jamestown	2.5%	.	.	.	31,240	32,293	33,511	35,860	36,349	37,765	35,903	36,963
Foster	2.4%	16,008	15,992	16,644	17,112	17,193	17,952	19,110	19,557	20,351	19,432	20,022
Westerly	2.3%	168,318	172,870	176,666	178,675	184,061	188,950	198,750	205,277	211,402	204,383	208,514
Exeter	2.3%	30,265	31,566	33,009	33,801	34,352	35,673	37,872	39,342	42,145	36,579	35,143
Scituate	2.1%	43,752	44,092	46,140	45,982	47,078	49,145	50,838	52,292	54,294	52,436	52,147
Warwick	2.0%	611,698	624,579	651,085	655,190	681,394	700,315	724,481	732,862	746,302	722,235	735,582
Little Compton	1.9%	18,359	18,408	18,581	19,676	20,648	20,146	21,895	21,728	22,343	20,215	22,024
Johnston	1.8%	170,923	170,611	177,913	176,377	180,695	191,378	188,816	192,862	198,624	197,536	203,751
Cranston	1.7%	445,774	459,690	475,739	478,577	499,429	524,147	522,944	513,795	534,616	513,690	525,603
Coventry	1.6%	186,224	189,330	196,110	198,877	198,112	200,881	208,754	210,906	221,016	213,260	222,212
North Kingstown	1.6%	319,356	347,757	361,914	371,942	383,887	392,498	386,587	404,500	368,938	352,057	373,100
Hopkington	1.5%	42,544	42,728	41,090	42,743	43,276	44,277	46,411	47,711	50,470	46,682	48,812
Narragansett	1.3%	109,538	111,481	114,444	117,323	119,134	120,948	126,589	126,907	127,184	121,294	122,445
East Greenwich	-0.1%	126,957	132,597	135,076	136,638	137,396	138,241	137,954	144,558	137,594	117,296	119,921
Western Neco PSA	2.4%	2,988,755	3,093,186	3,210,511	3,278,936	3,399,987	3,535,610	3,623,078	3,719,226	3,776,806	3,639,224	3,743,722

Annual MWh Energy and Trend Growth by Power Supply Area and Town

6. Attleboro PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Franklin	4.9%	246,091	271,866	340,118	366,299	397,513	390,446	393,122	393,991	396,625	392,385	405,907
Wrentham	4.0%	67,976	77,195	84,281	85,507	91,875	93,736	96,742	101,318	103,438	100,051	102,184
Bellingham	3.8%	57,378	58,516	61,362	61,217	64,890	65,956	69,123	71,722	78,185	82,420	84,390
Rehoboth	3.3%	47,860	48,376	50,480	52,077	53,986	55,162	58,411	61,303	65,619	63,596	64,804
Norton	2.9%	102,017	105,857	114,060	113,979	117,818	122,165	129,851	131,471	136,062	132,777	133,332
Foxboro	2.6%	136,016	134,680	139,455	139,114	147,518	159,563	175,071	172,222	174,143	164,688	167,456
Plainville	2.3%	49,648	49,215	53,578	55,807	54,579	53,277	55,395	56,564	60,661	61,102	63,044
Seekonk	2.1%	108,482	111,902	116,844	117,033	117,846	122,082	127,180	126,915	132,909	130,452	132,952
Attleboro	-1.0%	424,956	424,396	425,412	412,907	402,768	410,946	411,931	406,688	402,833	379,375	378,588
Attleboro PSA	2.2%	1,240,371	1,282,004	1,385,591	1,403,939	1,448,793	1,473,332	1,516,825	1,522,194	1,550,476	1,506,847	1,532,657

7. Webster PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Charlton	4.5%	70,757	73,133	79,000	93,080	92,348	91,409	101,487	104,990	107,866	107,879	106,939
Sutton	3.3%	45,143	46,108	49,038	51,680	53,978	54,652	59,076	60,476	61,518	59,920	61,686
Millbury	2.4%	103,140	106,249	109,674	109,942	105,464	106,036	110,998	123,682	130,516	127,430	132,415
Dudley	2.4%	62,740	63,893	66,959	69,983	74,209	73,851	74,295	79,764	80,147	76,898	76,411
Grafton	2.4%	127,463	129,906	120,519	123,686	128,136	128,227	134,848	141,732	155,608	154,530	159,975
Sturbridge	2.3%	101,698	103,411	106,944	114,430	127,647	130,656	126,991	125,699	128,846	123,768	123,754
Spencer	1.6%	76,772	76,441	81,287	84,835	82,391	84,844	87,048	88,394	90,723	88,462	87,675
Southbridge	1.3%	111,852	114,416	118,390	121,353	122,170	123,415	123,799	126,537	130,214	127,328	124,372
Oxford	1.2%	92,561	93,283	96,764	99,276	93,669	95,770	97,512	98,092	101,328	100,579	107,680
Webster	0.4%	130,396	125,868	130,396	131,030	129,778	132,601	135,756	137,509	138,015	133,247	132,651
Webster PSA	2.1%	922,485	932,710	958,971	999,295	1,009,792	1,021,462	1,051,810	1,086,876	1,124,781	1,100,041	1,113,559

8. Eastern Granite State PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Derry	15.0%	1,130	1,060	1,099	1,169	1,260	1,672	2,103	2,418	3,656	4,249	4,836
Pelham	4.7%	49,283	53,699	58,824	61,792	64,742	67,480	71,904	74,178	78,029	80,718	76,777
Windham	3.0%	13,124	12,788	13,599	13,666	14,021	14,241	14,954	16,206	17,092	16,207	16,242
Salem	1.2%	281,048	285,774	297,021	283,993	298,295	305,086	310,444	315,581	327,052	309,436	307,926
Eastern Geco PSA	1.9%	344,558	353,321	370,544	360,620	378,318	388,479	399,404	408,382	425,829	410,610	405,781

Annual MWh Energy and Trend Growth by Power Supply Area and Town

9. Essex PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Beverly	3.0%	256,324	274,238	290,301	302,969	320,348	323,574	333,133	333,974	337,153	334,086	345,232
Wenham	2.6%	21,510	22,313	23,552	24,651	25,279	25,970	27,543	27,954	28,401	27,199	27,339
Topsfield	2.5%	28,664	29,580	31,885	31,764	33,400	32,358	35,846	36,025	37,340	36,334	36,631
Hamilton	2.3%	34,682	34,996	36,995	37,532	39,309	37,611	41,029	42,783	43,394	42,248	42,261
Manchester	2.3%	27,159	27,484	28,388	29,251	30,124	30,823	32,716	32,845	33,243	32,796	32,957
Essex	1.3%	20,019	19,553	19,943	20,617	21,095	21,201	22,268	22,284	22,386	21,464	21,629
Salem	1.2%	263,881	274,695	289,118	293,252	297,900	304,719	314,087	304,990	306,488	295,886	300,982
Gloucester	0.9%	242,194	243,101	251,212	255,653	253,207	246,146	258,312	267,409	267,917	259,107	260,444
Rockport	0.7%	44,299	43,792	44,466	46,069	46,953	45,731	49,863	48,540	48,663	46,152	46,408
Essex PSA	1.8%	938,731	969,752	1,015,861	1,041,758	1,067,615	1,068,133	1,114,797	1,116,804	1,124,984	1,095,271	1,113,883

10. Providence PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Barrington	2.9%	62,123	63,880	67,462	70,152	72,486	75,197	79,075	80,351	83,132	79,898	80,866
Bristol	2.4%	114,845	116,402	120,800	119,933	122,303	126,408	134,506	136,331	143,916	140,451	144,570
Providence	2.2%	1,118,424	1,139,962	1,194,662	1,242,896	1,255,059	1,280,209	1,313,538	1,347,310	1,394,805	1,355,152	371,317
North Providence	0.7%	159,245	163,802	162,829	148,556	154,819	158,034	162,683	163,681	169,531	162,805	165,190
East Providence	0.3%	336,971	347,575	352,983	352,395	357,051	347,364	340,215	339,480	355,597	349,478	351,919
Warren	1.6%	59,355	61,345	63,705	63,999	66,330	68,965	70,137	70,547	70,734	67,350	67,992
Providence PSA	1.7%	1,850,963	1,892,966	1,962,442	2,997,932	2,028,047	2,056,177	2,100,155	2,137,700	2,217,715	2,155,134	1,181,854

11. Palmer PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Belchertown	3.6%	56,093	55,695	59,193	60,443	62,947	66,716	73,285	74,938	77,993	75,083	77,122
East Longmeadow	3.1%	165,816	168,044	181,987	189,256	197,399	200,284	209,195	216,055	219,410	220,089	226,222
Wilbraham	2.9%	61,457	63,735	67,859	69,292	71,577	74,724	77,153	79,234	83,494	79,676	80,106
Brimfield	2.5%	16,683	16,413	17,047	17,699	18,146	19,008	20,508	20,591	21,184	20,025	20,572
Hampden	2.2%	21,672	21,836	23,191	23,302	23,969	24,542	25,891	26,117	27,569	26,085	26,807
Hardwick	1.9%	13,377	13,405	13,707	13,897	13,839	15,008	15,211	15,644	15,421	16,200	15,685
Wales	1.8%	7,789	7,724	8,092	8,437	8,328	8,796	9,201	9,226	9,105	9,098	9,131
Granby	1.8%	24,840	25,188	26,571	26,595	27,815	29,429	29,653	29,866	28,787	29,608	29,863
Holland	1.7%	10,850	10,694	11,182	11,685	11,784	11,977	12,915	12,955	12,713	12,520	12,680
Ware	1.2%	71,850	72,026	77,225	77,716	75,500	75,560	77,556	79,331	80,747	80,254	82,560
Monson	1.1%	45,241	44,974	46,378	46,714	47,721	46,883	49,340	49,964	50,530	48,915	50,067
Warren	-1.1%	34,834	33,400	32,967	32,791	32,850	33,047	33,789	33,363	34,050	30,711	27,858
Palmer-3Rivers	-1.7%	112,030	105,713	110,509	111,953	110,621	104,905	102,734	95,818	100,101	95,622	96,428
Palmer PSA	1.7%	642,424	638,846	675,907	689,780	702,496	710,881	736,432	743,099	761,103	743,884	755,100

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12. South Berkshire PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alford	2.5%	3,087	3,004	3,251	3,417	3,495	3,497	3,824	3,863	3,975	3,791	3,843
Sheffield	2.5%	44,473	43,869	49,175	50,677	48,956	51,333	51,927	55,326	54,024	54,171	55,004
Monterey	2.2%	5,922	5,622	6,168	6,343	6,447	6,463	7,094	7,109	7,357	7,002	7,245
Mt.Washington	1.7%	1,323	1,276	1,346	1,404	1,454	1,353	1,632	1,656	1,569	1,457	1,522
New Marlboro	1.7%	9,395	9,315	9,978	10,375	10,248	10,298	10,863	11,385	11,496	10,794	11,001
Lenox	1.6%	48,153	48,019	50,511	50,848	52,507	53,755	56,732	56,727	57,000	54,512	55,299
Egremont	1.4%	10,986	10,110	10,769	11,685	11,029	11,718	11,475	12,258	13,297	11,624	11,374
Stockbridge	1.4%	21,441	21,127	22,146	22,285	22,953	23,203	24,302	24,084	25,247	24,240	24,220
W.Stockbridge	1.4%	9,138	8,967	9,350	9,410	9,744	9,890	10,530	10,513	10,762	10,117	10,264
Gt. Barrington	1.4%	73,733	73,728	77,286	79,704	79,788	83,707	84,830	84,790	88,547	84,669	76,695
South Berkshire	1.7%	227,652	225,036	239,981	246,149	246,620	255,216	263,209	267,712	273,275	262,377	256,467

13. Brockton PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Halifax	3.50%	.	.	.	31,396	32,830	34,759	35,692	36,426	40,244	38,880	39,501
Whitman	3.10%	.	.	.	61,290	64,018	66,368	71,971	72,108	76,444	74,387	74,797
Cohasset	2.90%	.	.	.	46,962	50,487	50,812	55,261	55,969	57,577	59,210	56,331
Pembroke	2.70%	.	.	.	92,484	98,254	100,113	104,477	107,310	113,208	110,354	111,530
Abbington	2.50%	.	.	.	74,842	77,889	80,128	83,306	83,169	88,220	85,688	90,428
Rockland	2.30%	.	.	.	112,548	118,045	124,354	128,737	129,772	135,188	132,193	132,576
East Bridgewater	2.30%	.	.	.	65,134	67,781	68,997	73,040	74,459	77,293	74,358	76,085
Scituate	2.30%	.	.	.	75,479	80,328	81,825	86,281	87,615	90,753	87,773	88,754
Easton	2.10%	.	.	.	160,783	172,830	174,736	183,025	192,230	192,222	185,873	187,874
Hanover	1.90%	.	.	.	103,653	110,975	111,671	115,831	117,341	122,068	118,813	119,708
Norwell	1.80%	.	.	.	88,909	93,065	94,130	97,313	98,707	101,614	100,954	100,760
Bridgewater	1.80%	.	.	.	131,793	140,069	144,206	150,477	152,946	158,976	151,628	147,336
Avon	1.70%	.	.	.	73,906	72,970	72,156	72,247	71,666	78,068	79,428	82,512
Hanson	1.30%	.	.	.	49,290	50,771	51,888	54,377	54,367	56,236	53,366	54,034
Brockton	1.10%	.	.	.	541,320	555,343	564,298	582,516	585,264	599,576	580,377	581,627
Stoughton	0.80%	.	.	.	185,514	196,773	194,826	200,076	198,107	206,657	189,412	204,295
Sharon	0.50%	.	.	.	865	931	882	934	928	1,015	868	906
West Bridgewater	-0.20%	.	.	.	74,655	73,881	74,958	76,717	73,498	73,547	71,489	75,450
Brockton PSA	1.7%	.	.	.	1,970,823	2,057,242	2,091,108	2,172,276	2,191,880	2,268,904	2,195,049	2,224,505

Annual MWh Energy and Trend Growth by Power Supply Area and Town

14. Merrimack Valley PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Westford	4.4%	159,404	183,220	190,199	210,197	232,426	249,930	239,214	244,681	244,224	235,679	244,489
Boxford	3.6%	33,417	34,298	36,581	37,044	39,965	42,211	44,358	44,371	46,640	45,429	45,777
Methuen	3.2%	228,783	237,380	242,820	254,967	278,474	289,598	293,479	300,556	310,555	299,723	305,710
Billerica	2.8%	406,596	416,947	432,088	439,100	468,005	474,439	490,441	496,986	525,583	520,957	526,837
Dracut	2.6%	112,780	113,076	118,702	118,789	121,516	127,619	135,422	137,006	143,968	138,680	142,143
Tyngsboro	2.6%	64,777	67,192	71,936	73,989	77,417	81,579	84,020	80,534	82,133	80,238	82,068
Chelmsford	2.4%	276,159	283,766	295,600	314,737	327,909	336,889	328,463	335,055	347,244	343,693	349,882
Salisbury	2.2%	49,335	50,472	53,986	55,272	56,213	56,756	60,501	59,813	61,789	59,983	60,450
West Newbury	2.0%	18,213	18,425	19,155	19,579	20,609	21,112	22,177	22,030	22,742	20,228	22,050
Newbury	2.0%	34,043	33,872	35,583	36,692	37,270	39,157	40,409	40,274	42,320	37,748	41,400
Tewksbury	1.6%	218,140	229,568	238,277	238,851	248,345	252,024	252,977	251,198	260,934	258,087	258,712
Amesbury	1.6%	90,719	91,479	92,759	95,160	100,268	99,871	102,387	104,846	105,653	104,585	104,145
Haverhill	1.5%	349,887	360,470	374,526	376,209	388,659	397,526	392,272	397,616	403,261	392,941	413,776
Newburyport	1.1%	159,850	167,070	172,499	175,867	182,023	176,699	178,233	176,836	182,360	174,039	178,788
Lawrence	0.7%	465,550	466,810	450,431	443,380	459,211	477,470	467,743	469,159	489,199	461,429	477,690
Lowell	0.60%	643,688	654,647	682,629	696,045	709,417	709,811	700,888	688,300	691,606	671,151	689,275
Andover	0.50%	523,656	535,970	530,217	529,780	556,343	564,582	552,261	528,112	535,815	536,766	557,746
No. Andover	0.10%	301,688	305,151	280,662	273,999	281,018	295,350	300,623	282,890	307,906	307,349	304,766
Merrimack Valley	1.6%	4,136,559	4,249,814	4,318,650	4,389,657	4,585,086	4,692,624	4,685,867	4,660,262	4,803,933	4,688,705	4,805,704

15. Athol PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Phillipston	2.7%	6,251	6,153	6,542	6,855	7,271	7,187	7,741	7,798	8,283	7,729	7,976
Barre	2.6%	23,192	23,234	24,346	25,318	26,139	26,516	28,972	29,360	29,985	28,152	28,622
Petersham	2.5%	5,042	5,060	5,208	5,365	5,521	5,372	6,011	6,215	6,608	6,235	6,308
Wendall	2.1%	3,420	3,429	3,695	3,845	3,940	3,849	4,300	4,297	4,275	4,100	4,020
Warwick	2.0%	2,541	2,614	2,732	2,927	2,987	2,904	3,128	3,229	3,497	2,975	2,920
New Salem	1.3%	4,182	4,411	4,230	4,041	4,587	4,729	4,976	4,875	4,774	4,560	4,608
Athol	1.3%	65,813	67,527	69,555	70,059	72,253	72,337	75,311	76,336	75,724	72,883	73,150
Shutesbury	1.2%	6,193	6,193	6,427	6,309	6,297	6,651	7,151	7,180	7,048	6,801	6,735
Royalston	1.1%	5,062	5,017	5,160	5,433	5,365	5,379	5,729	5,336	6,009	5,300	5,324
Orange	1.0%	59,397	62,690	64,101	65,166	63,371	64,272	68,203	69,837	70,137	67,361	61,754
Erving	0.8%	45,440	47,618	50,491	49,849	51,122	51,122	49,906	52,090	51,605	45,855	51,694
Athol PSA	1.4%	226,532	233,947	242,486	245,166	248,854	250,317	261,429	266,556	267,945	251,951	253,111

Annual MWh Energy and Trend Growth by Power Supply Area and Town

16. Gardner PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Hubbardston	2.9%	14,627	14,837	15,803	15,838	16,842	17,649	18,478	19,076	19,291	18,810	19,043
Winchendon	2.0%	42,033	41,862	43,933	44,623	46,229	46,606	49,704	50,375	52,643	49,179	49,739
Westminster	1.5%	62,368	63,936	67,372	71,466	71,598	71,265	72,349	76,104	73,961	67,687	66,516
Gardner	0.9%	133,423	134,616	144,432	146,181	147,436	145,154	148,242	148,067	151,524	145,443	147,247
Gardner PSA	1.3%	252,451	255,252	271,541	278,108	282,105	280,675	288,774	293,623	297,419	281,118	282,544

17. Worcester PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Rutland	4.7%	22,677	23,191	24,971	26,017	26,938	28,561	31,161	33,033	34,670	34,256	34,822
Oakham	2.8%	7,047	7,196	7,546	7,719	8,127	8,090	8,740	9,006	9,365	9,130	9,188
New Braintree	2.7%	5,519	5,511	5,741	6,260	6,044	6,348	6,740	6,694	7,071	6,843	6,810
E. Brookfield	2.4%	9,419	9,445	9,906	9,894	10,217	10,665	11,332	11,400	11,933	11,565	11,885
Brookfield	2.4%	13,527	13,164	13,552	13,963	14,692	14,913	15,879	16,534	16,797	16,188	16,375
Leicester	1.9%	50,841	49,767	51,036	51,654	52,690	50,500	57,099	57,227	58,403	57,191	61,714
W. Brookfield	1.6%	20,840	20,982	21,460	22,117	22,447	22,644	24,289	24,168	25,090	23,489	23,553
Worcester	1.2%	1,356,748	1,386,029	1,408,202	1,438,052	1,456,734	1,475,928	1,491,348	1,506,901	1,546,247	1,502,518	1,535,374
N. Brookfield	1.1%	34,296	35,640	37,218	37,906	40,710	43,720	45,478	39,431	38,694	36,181	36,579
Auburn	0.7%	158,030	161,343	168,196	168,437	165,397	167,216	168,843	172,170	172,750	165,844	168,614
Worcester PSA	1.3%	1,678,944	1,712,269	1,747,829	1,782,020	1,803,997	1,828,585	1,860,909	1,876,564	1,921,019	1,863,205	1,904,914

18. Suburban PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Everett	3.8%	205,930	202,895	231,759	235,335	252,058	266,317	289,283	284,069	283,581	289,017	285,438
Revere	1.5%	217,150	215,577	218,711	219,014	230,930	234,350	250,994	237,114	248,702	241,172	249,843
Nahant	1.5%	13,556	13,644	13,897	14,191	14,180	14,847	15,340	15,038	15,492	15,047	16,211
Swampscott	1.4%	71,935	73,150	75,984	75,896	79,079	83,510	82,864	80,605	83,061	80,045	82,136
Medford	1.3%	304,412	307,894	314,928	312,087	328,859	331,016	337,326	327,955	340,847	336,106	351,602
Melrose	1.1%	108,445	109,113	113,166	111,886	116,416	117,850	119,643	118,718	121,730	117,053	121,798
Saugus	0.9%	187,027	186,590	191,512	191,488	198,202	200,500	206,796	205,430	211,092	191,397	201,242
Malden	0.8%	276,534	277,976	287,520	288,672	296,720	296,522	299,875	294,807	305,149	295,144	299,305
Winthrop	0.8%	65,718	65,299	66,713	67,087	68,448	67,954	71,621	70,591	72,452	67,581	69,420
Lynn	0.3%	484,965	421,052	407,888	405,574	422,487	423,829	443,929	429,723	452,208	419,234	443,717
Suburban PSA	1.3%	1,935,672	1,873,190	1,922,077	1,921,230	2,007,377	2,036,694	2,117,670	2,064,050	2,134,314	2,051,796	2,120,713

Annual MWh Energy and Trend Growth by Power Supply Area and Town

19. Adams PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Hancock	7.6%	10,324	8,781	11,135	11,239	11,951	12,979	15,726	18,040	19,483	18,400	18,746
Charlemont	1.9%	7,281	7,118	7,492	7,797	8,014	8,052	8,603	8,690	8,953	8,512	8,392
Florida-Drury	1.7%	2,677	2,654	2,898	2,867	2,893	3,007	3,010	3,012	3,118	3,094	3,226
Adams	1.5%	85,995	81,921	87,848	91,564	87,119	89,483	91,053	104,123	103,462	95,698	93,242
Heath	1.2%	3,061	3,051	3,260	3,341	3,344	3,393	3,701	3,530	3,554	3,357	3,348
Rowe	1.0%	.	.		5,366	5,394	5,233	5,318	5,554	5,634	5,558	5,723
Williamstown	0.7%	73,238	74,774	76,961	79,558	81,583	80,006	82,770	81,520	81,956	77,581	76,819
Clarksburg	0.6%	5,481	5,594	5,673	5,789	5,745	5,727	5,954	5,862	5,908	5,788	5,822
Cheshire	0.5%	14,437	13,953	13,845	13,723	13,964	14,167	15,017	14,997	15,190	14,491	14,566
Hawley	0.5%	1,389	1,329	1,411	1,427	1,472	1,445	1,536	1,527	1,548	1,393	1,364
North Adams	0.4%	93,645	93,888	96,393	95,594	95,899	96,663	96,379	96,893	100,458	95,655	96,821
Monroe	-12.4%	5,460	4,680	4,845	3,906	4,136	4,257	4,273	3,116	2,211	1,570	1,136
Adams PSA	1.2%	302,933	297,742	311,761	322,171	321,511	324,411	333,340	346,864	351,475	331,098	329,207

20. Weymouth PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Weymouth	1.6%	289,716	287,916	295,852	296,576	314,873	337,689	342,334	331,616	345,590	329,688	333,931
Quincy	1.1%	606,487	614,306	636,754	633,437	649,558	646,076	653,750	654,930	678,250	667,303	675,904
Holbrook	1.0%	55,112	53,486	55,051	55,942	62,178	56,138	58,927	61,510	64,375	60,014	60,994
Randolph	0.6%	167,630	171,482	174,139	174,601	181,833	177,005	183,236	180,149	182,629	175,982	177,515
Hingham	-3.0%	.	.		5,764	6,104	6,066	5,837	5,577	5,377	5,392	4,672
Weymouth PSA	1.2%	1,118,945	1,127,189	1,161,796	1,166,319	1,214,546	1,222,974	1,244,084	1,233,782	1,276,220	1,238,378	1,253,016

Annual MWh Energy and Trend Growth by Power Supply Area and Town

21. Newport PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Portsmouth	1.8%	.	.	.	109,514	112,887	112,151	119,366	124,385	126,677	119,426	123,303
Middletown	1.7%	.	.	.	121,796	126,047	125,723	133,514	136,991	138,810	133,239	136,869
Newport	0.2%	.	.	.	310,134	323,740	321,550	333,356	330,811	329,102	318,259	318,526
Newport PSA	0.9%	.	.	.	541,444	562,673	559,424	586,237	592,187	594,590	570,924	578,698

22. Northampton PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Goshen	1.8%	3,792	3,651	3,784	4,110	3,982	4,095	4,406	4,409	4,502	4,304	4,303
Williamsburg	1.3%	12,674	12,370	12,909	12,856	13,063	13,312	14,096	14,122	14,335	13,582	14,175
Northampton	0.7%	232,563	235,578	239,969	240,492	245,273	245,874	247,396	250,528	255,816	244,113	248,379
Northampton PSA	0.7%	249,028	251,599	256,662	257,458	262,318	263,281	265,898	269,059	274,653	262,000	266,857

23. Leominster PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Dunstable	4.1%	10,343	10,638	11,615	11,593	12,621	12,838	13,956	14,485	15,466	14,664	14,990
Berlin	3.3%	11,550	11,802	12,692	12,978	13,421	14,088	15,405	15,810	16,204	15,008	15,414
Shirley	2.9%	47,281	54,700	58,190	59,107	60,911	61,076	63,490	63,336	64,156	63,636	64,766
Bolton	2.5%	32,346	33,825	34,772	37,596	40,554	41,493	42,599	42,896	42,840	38,786	39,246
Lancaster	2.4%	35,245	35,668	36,908	37,986	38,174	38,286	40,799	41,995	43,942	43,049	44,177
Harvard	2.1%	25,828	25,843	27,218	27,423	28,630	29,165	31,560	31,156	32,243	30,594	30,936
Ayer	1.9%	82,985	90,808	99,340	96,375	98,731	97,832	96,003	101,529	100,077	102,278	106,759
Groton	1.1%	.	.	21,235	21,874	19,706	23,162	23,486	23,845	23,268	23,918	21,515
Clinton	0.2%	130,750	136,640	140,229	141,022	143,073	141,416	144,640	143,798	141,212	133,600	133,524
Pepperell	0.0%	54,892	55,442	59,079	59,368	61,794	58,813	56,637	56,363	58,098	54,753	55,469
Leominster	-0.7%	514,410	516,870	529,018	526,791	496,657	488,280	491,655	490,426	492,291	484,907	478,808
Leominster PSA	0.6%	945,538	972,236	1,030,295	1,032,112	1,014,272	1,006,448	1,020,232	1,025,640	1,029,797	1,005,193	1,005,604

Annual MWh Energy and Trend Growth by Power Supply Area and Town

24. Blackstone PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Lincoln	2.5%	.	.	.	205,907	212,656	217,515	226,697	228,931	235,636	239,634	244,953
Cumberland	2.4%	.	.	.	196,302	199,306	205,185	216,725	226,145	235,396	226,219	222,949
North Smithfield	1.2%	.	.	.	91,713	92,131	96,776	96,337	99,202	100,312	98,521	99,104
Burrillville	0.4%	.	.	.	36,493	38,551	43,426	54,461	46,689	36,787	43,832	38,113
Woonsocket	0.2%	.	.	.	267,133	266,128	265,054	259,380	255,751	267,620	264,645	274,401
Pawtucket	-1.4%	.	.	.	447,467	442,960	443,705	438,628	431,742	432,773	408,233	407,802
Central Falls	-2.0%	.	.	.	98,081	98,657	92,744	92,393	84,707	87,701	85,964	88,060
Blackstone PSA	0.3%	.	.	.	1,343,097	1,350,390	1,364,403	1,384,622	1,373,166	1,396,225	1,367,047	1,375,381

25. Fall River PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Dighton	3.1%	.	.	.	24,509	27,289	26,763	28,146	29,542	31,485	30,278	30,672
Westport	2.2%	.	.	.	22,378	23,538	25,440	25,655	26,236	27,167	25,760	26,621
Somerset	1.3%	.	.	.	87,101	91,468	96,094	100,333	99,799	102,737	95,486	95,528
Swansea	1.1%	.	.	.	89,911	93,309	94,115	96,962	96,601	99,507	96,287	97,889
Fall River	-1.0%	.	.	.	639,170	633,865	640,559	651,230	642,978	640,828	601,687	586,920
Fall River PSA	-0.3%	.	.	.	863,069	869,468	882,971	902,326	895,155	901,724	849,498	837,630

Division 2-6

Request:

Does the Company have a Power Supply Area Forecast for the Narragansett Electric Company that is more recent than the April 2010 version? If so, please provide that forecast.

Response:

Yes. Please see the Company's 2011 Power Supply Area (PSA) Forecast, released in April 2011, a copy of which is attached as Attachment DIV 2-6.

The April 2010 PSA Forecast provided as Attachment DIV 2-5 was the latest available when the Tiverton study was prepared. Differences between the April 2010 PSA Forecast and the more recent 2011 PSA Forecast are small and are shown below for the Western NECo PSA (corresponding to Appendix 3 of the Supplemental SRP). The pilot proposal is not affected by the updated forecast.

Western NECO PSA Forecast Comparison
2010 PSA Forecast Versus 2011 PSA Forecast (MW)
Extreme Weather Scenario

Year	Actual	2010 PSA Forecast	2011 PSA Forecast
2005	888.742		
2006	957.751		
2007	873.969		
2008	871.427		
2009	829.540		
2010	869.425		
2011	924.500	916.500	920.042
2012		950.214	952.746
2013		987.110	992.105
2014		1,015.758	1,031.668
2015		1,041.059	1,064.046
2016		1,065.188	1,091.133
2017		1,088.410	1,114.704
2018		1,110.694	1,137.109
2019		1,132.214	1,158.765
2020		1,153.908	1,180.870

Prepared by or under the supervision of Alfred P. Morrissey, Jr.

National Grid USA

New England Distribution System

2011 Power Supply Area Forecast

Forecast Results

Energy Portfolio Management
Electric Load Forecasting

March 31, 2011

National Grid USA

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Appendices*

*Note: each appendix contains a separate table of contents and page numbers showing where the various tables can be found.

National Grid USA

New England Distribution System - 2011 Power Supply Area Forecast

Executive Summary – System and Company Peak Demands

New England System

Overview

National Grid New England is a summer peaking electric distribution system serving 1.8 million customers in Massachusetts, Rhode Island and New Hampshire. The current system peak demand of 7,261 MW was reached on August 2, 2006 and is 28% higher than the current winter peak of 5,672 MW achieved on January 16, 2004.

Charts 1-8 beginning on page 5 below summarize the forecast of system and company peak demands and their key determinants. System and company summer and winter peak demands are shown on Charts 1 and 2, respectively. Summary peak and load factor graphs for Massachusetts Electric, Nantucket Electric, Narragansett Electric and Granite State Electric – the four distribution companies that make up the New England system – are shown on Chart 3 and Chart 4. Chart 5 shows historical and forecast DSM savings. Chart 6 illustrates the adjustment to the PSA load forecast for DSM savings. Chart 7 shows the estimated impact of plug-in electric vehicles on residential peak under four charging scenarios. Chart 8 summarizes the economic outlook for the 15-year forecast horizon.

Summer and winter *power supply area* (PSA) peak demand forecasts are shown in Appendices A – H, while town-level peak forecasts are shown in Appendix K.

Historical Peak Growth

New England system peak growth averaged 2.4% per year over the last ten years, from 2000 to 2010. This growth rate was more than triple the actual growth of energy requirements, which was 0.7% per year over the same period. Peak demand growth was also more than three times higher than energy growth on a weather-adjusted basis, 1.4% per year for peak versus 0.4% per year for energy. This solid growth in peak demand occurred despite a drop in industrial load over the historical period. Strong increases in both residential and commercial load more than offset the drop in industrial load. Moreover the residential and commercial load increases had a disproportionate impact on peak because of air conditioning use. Growth was strongest during the first half of the decade which included the 2000-2005 housing boom. During this time, residential air conditioning saturation increased as more new homes included central air conditioning and window units became more affordable. All these factors contributed to a decline in system load factor over the historical period. Load factor, which is defined as average hourly load divided by peak load, declines when peak demand grows more rapidly than energy use. Load factors for the four distribution companies are shown on Chart 4 below.

The decline in load factor is related to the long-term trend in the New England economy away from heavy industry and toward more service-oriented industries. Large industrial customers, particularly those that run three shifts, tend to have higher load factors. This is because their average use is close to their peak use which is driven by production processes rather than by air conditioning. Residential and commercial customers, on the other hand, tend to have lower load factors because air conditioning use during hot summer weather can drive their peak use well above their average use.

Besides the shift in away from heavy manufacturing, increased air conditioning saturation has also raised the share of residential and commercial load in the total, driving down load factor. In fact, all load growth over the last ten years has come from residential and commercial customers. Electric deliveries to industrial customers declined at an average annual rate of 3.0% from 2000 to 2010. Large manufacturing plants – especially those in New England's mature industries such as textiles, paper products, glass, plastics, jewelry, and metal products – have been losing market share to lower cost producers. The share of industrial in total gWh deliveries now stands at just 15% versus 21% in 2000. Moreover, the remaining industrial class has become more weather-sensitive as many of the smaller, more high-tech businesses that remain use or require air conditioning in their production processes.

National Grid's electric efficiency programs have slowed energy growth more than peak growth. This is shown on Chart 5 which presents historical and forecast electric efficiency savings.

A great deal of the residential construction during the early 2000s occurred in southeastern Massachusetts. The three fastest growing PSAs in the system – Marlboro, Attleboro and Uxbridge – are in this area. Towns in these PSAs are located along the southern portion of Route I-495 where house prices are lower and there is ready access to both major highways and commuter rail service to Boston. Lower home prices and access to major highways also drove growth in the system's other fast growing PSAs during the housing boom. These include the Webster PSA in Massachusetts which serves towns benefiting from the expansion of Route 146 and Route 20. The Route 146 expansion, which connects to I-395 in the south and I-290/I-190 in the north, essentially created a third outer-belt around Boston. The Palmer PSA in western Massachusetts includes towns located near the western portions of I-90 and Route 20 that are within commuting distance to the eastern Massachusetts job market. In Rhode Island, the towns in the Western Narragansett PSA have grown rapidly as lower home prices and quality of life have attracted home buyers commuting to Providence and Boston from Route I-95 and the commuter rail system.

With the collapse of the housing market after 2005, the subsequent regional economic slowdown and the severe recession in 2009, both peak demand and energy growth have fallen. Declines have been sharpest in the industrial sector especially in 2009 when industrial energy consumption fell 7.7%. Overall, total MWh energy consumption fell 3.1% in 2009 while peak demand fell 4.9%. These decreases were due to both the soft economy and mild summer weather.

With hotter summer weather and a recovering economy, both peak demand and energy consumption rebounded in 2010. Actual peak demand increased 8.2%, while energy consumption grew 3.0% despite a 0.2% decrease in industrial energy consumption.

Forecasted Peak Growth

Forecasted peak growth is based on economic projections provided by Moody's Economy.com (January 2011 release), the assumption of extreme weather conditions and projections of demand-side management (DSM) savings on peak provided by National Grid's Energy Efficiency Department.

Moody's economic forecast for the New England PSAs is summarized on Chart 8 below. Moody's assumes that the economic recovery that began in 2009 will continue throughout the forecast period. Chart 8 shows that regional employment is expected to increase 0.9% in 2011. Regional employment growth accelerates to 1.5% in 2012 and shows a fairly sharp rebound in 2013 and 2014 with growth rates above 2.0% as Moody's projected economic recovery picks up steam. By 2014, regional employment is expected to surpass its historical high achieved in 2001. However, after 2015, regional employment growth settles into a long-term trend of only 0.1% to 0.2% per year. Regional employment, along with the number of households, is a key driver to the PSA forecast.

For planning purposes, the forecast in Chart 1 assumes extreme summer weather conditions that have only a 5% probability of occurring. The 2011 growth rates therefore reflect both economic growth and a weather adjustment from actual 2010 conditions to extreme weather conditions assumed for 2011.

For the ten year forecast period, from 2010-2020, the New England system peak is expected to grow 1.4% per year on a weather-adjusted basis, which is slightly faster than the actual, weather-adjusted growth of 1.2% experienced over the last ten years.

Distribution Company Overview

Massachusetts Electric

Massachusetts Electric accounts for 70% of the New England system peak and thus tends to determine the pattern of growth for the system. The same factors behind system demand growth have been evident for Massachusetts Electric, including healthy residential and commercial growth, decreasing industrial load, increasing air conditioning saturation and declining load factor. From 2000-2010, the Massachusetts Electric peak demand increased 1.1% per year on a weather-adjusted basis. For the ten-year forecast period from 2010-2020, Massachusetts Electric peak demand is expected to increase 1.2% per year. Like the rest of the system, growth in Massachusetts Electric peak demand slowed during the housing correction and fell during the 2009 recession.

Nantucket Electric

Nantucket Electric accounts for only 0.5% of the New England system peak but it one of the fastest growing areas in the New England distribution system. Compared to the system peak growth rate of 1.2% per year, Nantucket Electric peak demand grew 2.4% annually over the last ten years. Nantucket experienced much stronger growth in peak demand during the late 1990s as a result of extraordinary population growth and a housing boom that pushed the average home price to over $1 million. New homes constructed on the island have been larger than the existing housing stock and contribute to higher energy use per customer. Air conditioning saturation also increased. Over the next ten years, Nantucket peak demand is expected to increase 2.1% annually. Like the other New England distribution companies, Nantucket is a summer peaking system. This has been the case since 1990.

Granite State Electric

The Granite State Electric peak accounts for 2.8% of the New England system peak. Like the New Hampshire economy, Granite State's peak demand growth has been strong over the last ten years, increasing 3.0% per year from 2000-2010. For the 2010-2020 ten-year forecast period, Granite State's peak is expected to increase 1.8% per year. Although Granite State's service territory is in northern New England, the company remains solidly summer peaking with the current summer peak 24% higher than the winter peak.

Narragansett Electric

Narragansett Electric, the second largest Distribution Company in the New England system, accounts for 27% of the system peak and serves all but a small portion of the state of Rhode Island. Narragansett's peak demand grew 0.9% per year on average over the last ten years on a weather-adjusted basis. Like Massachusetts Electric and the system, Narragansett has seen strong residential and commercial growth, negative industrial growth, increased residential air conditioning saturation and a decline in load factor.

Over the next ten years, the Narragansett peak is expected to increase 1.5% annually. As was the case over the last ten years, growth is expected to be driven by Narragansett's Western PSA.

Chart 1
Summer Peak Demands (MW)

New England Distribution System and Company Summer Peak Demands *
Actual History and Forecast with Extreme Weather and DSM

Year	New England System Peak	Growth Rate	Massachusetts Electric Company	Growth Rate	Nantucket Electric Company	Growth Rate	Granite State Electric	Growth Rate	Narragansett Electric Company	Growth Rate
2000	5,460.950		3,850.805		28.429		144.518		1,475.400	
2001	6,206.009	13.6%	4,382.281	13.8%	31.000	9.0%	162.852	12.7%	1,663.324	12.7%
2002	6,429.525	3.6%	4,549.181	3.8%	32.410	4.5%	174.215	7.0%	1,687.100	1.4%
2003	6,222.069	-3.2%	4,378.888	-3.7%	33.260	2.6%	169.611	-2.6%	1,555.950	-7.8%
2004	6,088.453	-2.1%	4,280.514	-2.2%	33.117	-0.4%	169.044	-0.3%	1,601.714	2.9%
2005	6,865.555	12.8%	4,848.824	13.3%	36.491	10.2%	184.156	8.9%	1,787.842	11.6%
2006	**7,261.011**	**5.8%**	**5,067.485**	**4.5%**	39.100	**7.1%**	**187.936**	**2.1%**	**1,931.975**	**8.1%**
2007	6,610.513	-9.0%	4,654.134	-8.2%	38.517	-1.5%	179.073	-4.7%	1,760.051	-8.9%
2008	6,719.098	1.6%	4,671.475	0.4%	37.781	-1.9%	185.711	3.7%	1,781.256	1.2%
2009	6,388.363	-4.9%	4,399.660	-5.8%	39.175	3.7%	185.940	0.1%	1,675.809	-5.9%
2010	6,910.954	8.2%	4,783.195	8.7%	**40.121**	2.4%	193.384	4.0%	1,748.764	4.4%
Forecast										
2011	7,094.510	2.7%	5,044.160	5.5%	43.166	7.6%	199.751	3.3%	1,807.433	3.4%
2012	7,202.183	1.5%	5,104.801	1.2%	44.194	2.4%	204.271	2.3%	1,848.917	2.3%
2013	7,369.319	2.3%	5,214.127	2.1%	45.961	4.0%	208.994	2.3%	1,900.237	2.8%
2014	7,539.413	2.3%	5,326.637	2.2%	47.533	3.4%	213.386	2.1%	1,951.857	2.7%
2015	7,658.942	1.6%	5,400.528	1.4%	48.505	2.0%	217.050	1.7%	1,992.859	2.1%
2016	7,749.449	1.2%	5,453.800	1.0%	49.241	1.5%	220.367	1.5%	2,026.041	1.7%
2017	7,829.781	1.0%	5,502.107	0.9%	49.916	1.4%	223.732	1.5%	2,054.026	1.4%
2018	7,907.364	1.0%	5,549.309	0.9%	50.621	1.4%	227.146	1.5%	2,080.288	1.3%
2019	7,984.096	1.0%	5,596.786	0.9%	51.330	1.4%	230.537	1.5%	2,105.443	1.2%
2020	8,063.754	1.0%	5,646.474	0.9%	52.059	1.4%	233.959	1.5%	2,131.262	1.2%
2021	8,144.796	1.0%	5,697.479	0.9%	52.792	1.4%	237.399	1.5%	2,157.126	1.2%
2022	8,224.138	1.0%	5,746.932	0.9%	53.500	1.3%	240.827	1.4%	2,182.879	1.2%
2023	8,300.724	0.9%	5,793.899	0.8%	54.178	1.3%	244.266	1.4%	2,208.381	1.2%
2024	8,377.658	0.9%	5,841.302	0.8%	54.855	1.2%	247.630	1.4%	2,233.871	1.2%
2025	8,454.466	0.9%	5,888.522	0.8%	55.540	1.2%	251.023	1.4%	2,259.381	1.1%

Compound Annual Growth	New England	Massachusetts	Nantucket	Granite State	Narragansett
2000-2010 Ten Year	2.4%	2.2%	3.5%	3.0%	1.7%
2005-2010 Five Year	0.1%	-0.3%	1.9%	1.0%	-0.4%
Forecast					
2010-2015 Five Year	2.1%	2.5%	3.9%	2.3%	2.6%
2010-2020 Ten Year	1.6%	1.7%	2.6%	1.9%	2.0%
2010-2025 Fifteen Year	1.4%	1.4%	2.2%	1.8%	1.7%

* Company demands are sum of PSA's.

Chart 2
Winter Peak Demands (MW)

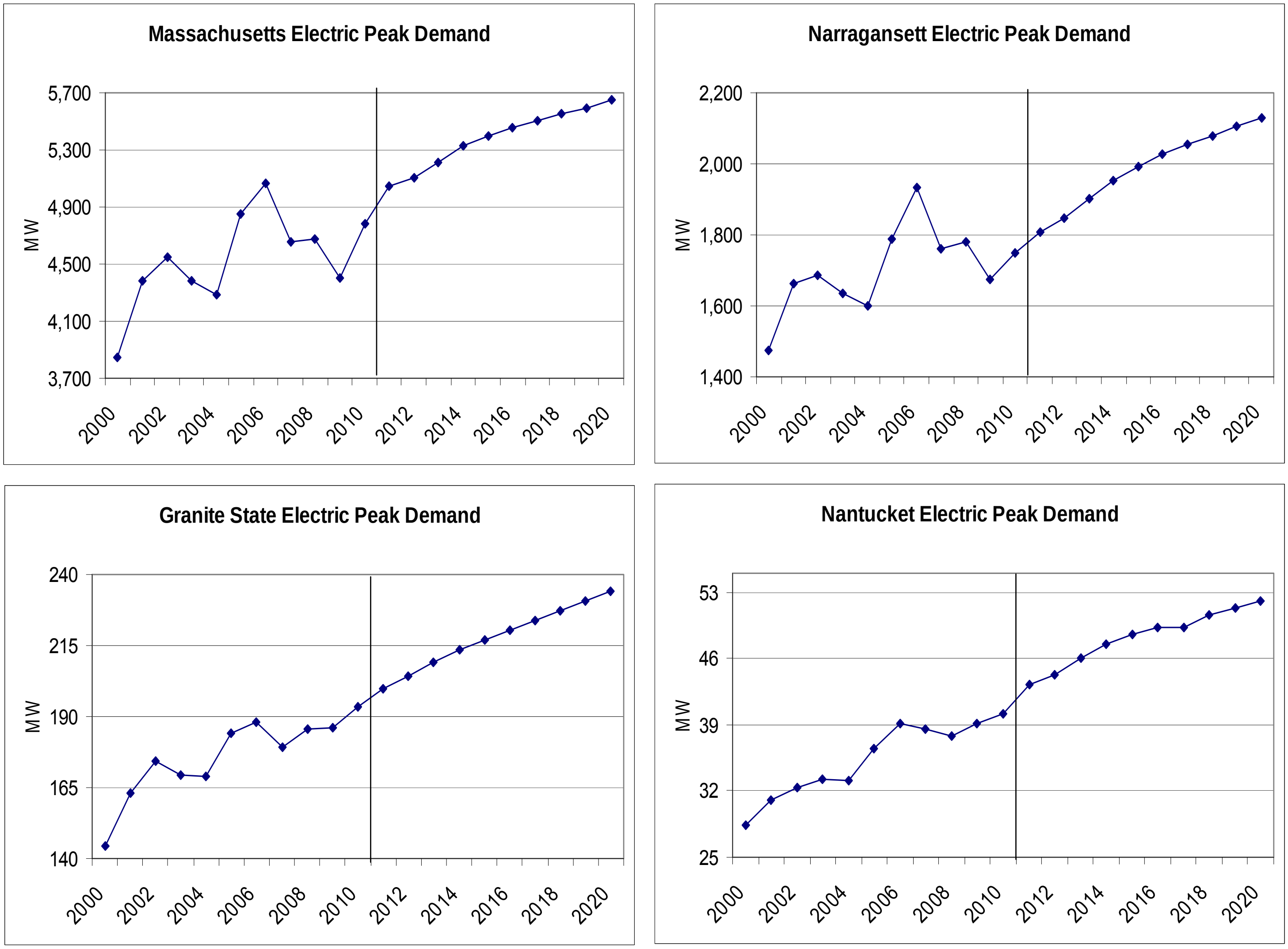
New England Distribution System and Company Winter Peak Demands *
Actual History and Forecast with Extreme Weather and DSM

Winter Year	New England System Peak	Growth Rate	Massachusetts Electric Company	Growth Rate	Nantucket Electric Company	Growth Rate	Granite State Electric	Growth Rate	Narragansett Electric Company	Growth Rate
2000	5,192.607		3,769.272		27.579		137.756		1,258.000	
2001	4,930.484	-5.0%	3,552.213	-5.8%	25.900	-6.1%	126.284	-8.3%	1,226.087	-2.5%
2002	4,835.812	-1.9%	3,479.799	-2.0%	20.510	-20.8%	132.303	4.8%	1,203.200	-1.9%
2003	5,265.058	8.9%	3,823.090	9.9%	28.060	36.8%	139.795	5.7%	1,274.113	5.9%
2004	**5,671.973**	**7.7%**	**4,084.867**	**6.8%**	**31.727**	**13.1%**	**146.262**	**4.6%**	**1,368.861**	**7.4%**
2005	5,572.461	-1.8%	4,001.215	-2.0%	27.893	-12.1%	148.709	1.7%	1,367.036	-0.1%
2006	5,311.743	-4.7%	3,807.297	-4.8%	26.388	-5.4%	147.388	-0.9%	1,301.943	-4.8%
2007	5,330.261	0.3%	3,806.781	0.0%	27.686	4.9%	142.565	-3.3%	1,308.178	0.5%
2008	5,384.674	1.0%	3,820.344	0.4%	28.056	1.3%	146.260	2.6%	1,331.634	1.8%
2009	5,157.040	-4.2%	3,650.948	-4.4%	25.408	-9.4%	126.865	-13.3%	1,271.954	-4.5%
2010	5,165.685	0.2%	3,618.935	-0.9%	24.675	-2.9%	140.269	10.6%	1,274.319	0.2%
Forecast										
2011	5,284.516	2.5%	3,868.216	6.9%	29.733	17.0%	151.830	19.7%	1,234.737	-2.9%
2012	5,323.842	0.7%	3,889.180	0.5%	30.386	2.2%	153.755	1.3%	1,250.521	1.3%
2013	5,422.082	1.8%	3,957.674	1.8%	31.882	4.9%	156.610	1.9%	1,275.916	2.0%
2014	5,542.671	2.2%	4,042.976	2.2%	33.570	5.3%	159.386	1.8%	1,306.739	2.4%
2015	5,638.329	1.7%	4,107.363	1.6%	34.830	3.8%	161.602	1.4%	1,334.534	2.1%
2016	5,686.084	0.8%	4,136.777	0.7%	35.577	2.1%	163.184	1.0%	1,350.546	1.2%
2017	5,715.031	0.5%	4,153.999	0.4%	36.192	1.7%	164.627	0.9%	1,360.213	0.7%
2018	5,737.401	0.4%	4,168.744	0.4%	36.782	1.6%	166.153	0.9%	1,365.722	0.4%
2019	5,758.392	0.4%	4,182.884	0.3%	37.419	1.7%	167.685	0.9%	1,370.404	0.3%
2020	5,780.036	0.4%	4,198.242	0.4%	38.052	1.7%	169.211	0.9%	1,374.531	0.3%
2021	5,804.705	0.4%	4,215.836	0.4%	38.708	1.7%	170.777	0.9%	1,379.384	0.4%
2022	5,829.676	0.4%	4,233.635	0.4%	39.356	1.7%	172.334	0.9%	1,384.351	0.4%
2023	5,851.357	0.4%	4,248.847	0.4%	39.966	1.5%	173.907	0.9%	1,388.637	0.3%
2024	5,872.160	0.4%	4,262.937	0.3%	40.566	1.5%	175.436	0.9%	1,393.221	0.3%
2025	5,892.944	0.4%	4,277.382	0.3%	41.156	1.5%	176.939	0.9%	1,397.467	0.3%

Compound Annual Growth	New England System Peak	Massachusetts Electric Company	Nantucket Electric Company	Granite State Electric	Narragansett Electric Company
2000-2010 Ten Year	-0.1%	-0.4%	-1.1%	0.2%	0.1%
2005-2010 Five Year	-1.5%	-2.0%	-2.4%	-1.2%	-1.4%
Forecast					
2010-2015 Five Year	1.8%	2.6%	7.1%	2.9%	0.9%
2010-2020 Ten Year	1.1%	1.5%	4.4%	1.9%	0.8%
2010-2025 Fifteen Year	0.9%	1.1%	3.5%	1.6%	0.6%

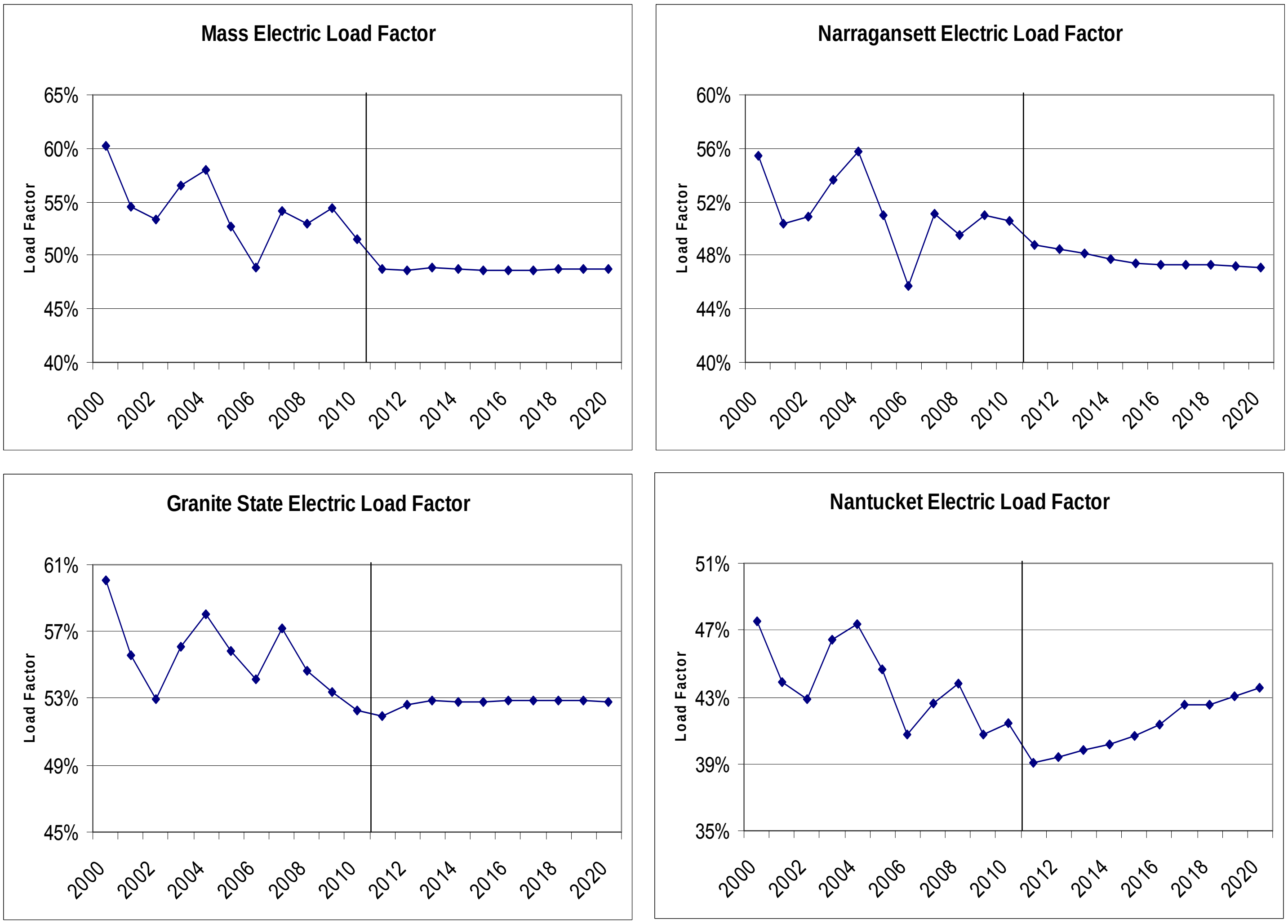
* Company demands are sum of PSA's.

Chart 3
Actual and Forecast Summer Peak Demand
By
Distribution Company *



*** Forecast with extreme weather and DSM**

Chart 4
Actual and Forecast Load Factor *
By
Distribution Company



*** MWh Distribution Deliveries per hour divided by peak MW demand.**

Chart 5
National Grid Actual and Forecast Electric Efficiency Savings

Massachusetts

Year	Total DSM on Energy (MWh)	Percent of Energy	Total DSM on Peak (MW)	Percent of Peak
2000	1,363,046	6.7%	275	7.1%
2001	1,494,585	7.1%	296	6.7%
2002	1,612,608	7.5%	314	6.9%
2003	1,689,124	7.7%	326	7.4%
2004	1,820,645	8.3%	341	7.9%
2005	1,995,938	8.9%	356	7.3%
2006	2,131,017	9.8%	366	7.2%
2007	2,274,589	10.2%	379	8.1%
2008	2,407,703	11.0%	393	8.3%
2009	2,502,126	11.8%	407	9.2%
2010	2,557,056	11.7%	419	8.5%
		Forecast		
2011	2,695,758	12.4%	439	8.8%
2012	2,972,317	13.6%	484	9.6%
2013	3,091,718	13.8%	502	9.8%
2014	3,211,119	14.0%	516	9.9%
2015	3,330,520	14.4%	531	10.1%
2016	3,449,921	14.7%	545	10.3%
2017	3,569,322	15.1%	559	10.5%
2018	3,688,723	15.5%	574	10.7%
2019	3,808,124	15.8%	588	10.9%
2020	3,927,525	16.2%	602	11.1%

Rhode Island

Year	Total DSM on Energy (MWh)	Percent of Energy	Total DSM on Peak (MW)	Percent of Peak
2000	341,993	4.8%	76	5.1%
2001	392,584	5.3%	83	5.0%
2002	442,557	5.9%	91	5.4%
2003	480,714	6.2%	97	6.3%
2004	519,871	6.6%	105	6.5%
2005	568,507	7.1%	113	6.3%
2006	623,330	8.1%	121	6.3%
2007	674,152	8.6%	129	7.3%
2008	715,895	9.3%	136	7.6%
2009	760,173	10.1%	144	8.6%
2010	778,031	10.0%	151	8.5%
		Forecast		
2011	821,635	10.6%	159	8.8%
2012	865,239	11.0%	166	9.0%
2013	908,843	11.3%	174	9.2%
2014	952,446	11.7%	181	9.4%
2015	996,050	12.0%	189	9.6%
2016	1,039,654	12.4%	196	9.9%
2017	1,083,258	12.7%	204	10.1%
2018	1,126,862	13.1%	211	10.4%
2019	1,170,466	13.4%	219	10.6%
2020	1,214,070	13.8%	226	10.8%

New Hampshire

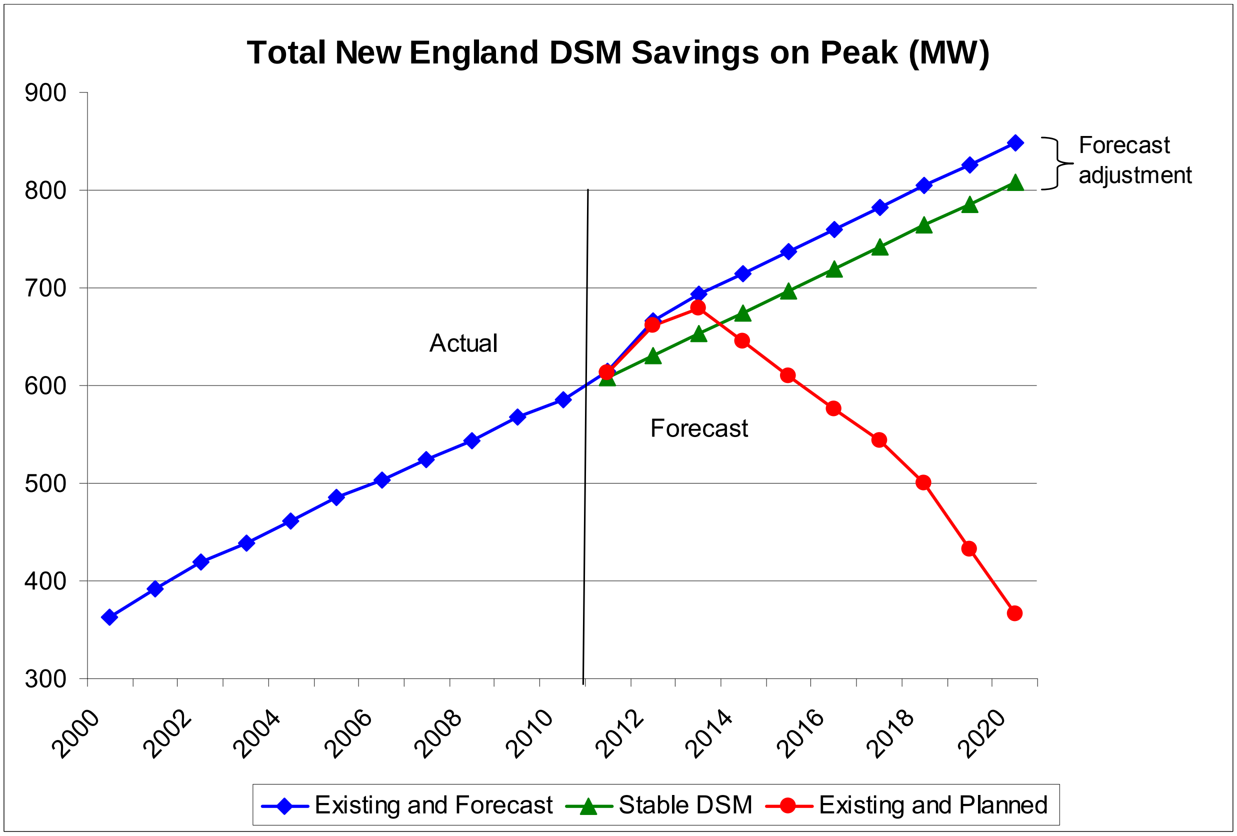
Year	Total DSM on Energy (MWh)	Percent of Energy	Total DSM on Peak (MW)	Percent of Peak
2000	52,035	6.8%	12	8.3%
2001	55,325	7.0%	13	7.7%
2002	60,195	7.4%	14	7.9%
2003	64,476	7.7%	15	8.8%
2004	67,354	7.8%	15	9.1%
2005	70,298	7.8%	16	8.6%
2006	71,679	8.0%	16	8.5%
2007	72,086	8.0%	16	8.8%
2008	72,893	8.2%	16	8.5%
2009	75,307	8.7%	16	8.6%
2010	75,926	8.5%	16	8.5%
		Forecast		
2011	78,315	8.6%	16	8.4%
2012	80,704	8.6%	17	8.4%
2013	83,093	8.6%	17	8.4%
2014	85,482	8.7%	18	8.5%
2015	87,871	8.7%	18	8.5%
2016	90,260	8.8%	18	8.6%
2017	92,649	8.9%	19	8.7%
2018	95,039	9.0%	19	8.7%
2019	97,428	9.1%	20	8.8%
2020	99,817	9.2%	20	8.8%

New England

Year	Total DSM on Energy (MWh)	Percent of Energy	Total DSM on Peak (MW)	Percent of Peak
2000	1,757,073	6.2%	363	6.6%
2001	1,942,494	6.6%	391	6.3%
2002	2,115,361	7.1%	419	6.5%
2003	2,234,313	7.4%	439	7.1%
2004	2,407,870	7.9%	461	7.6%
2005	2,634,743	8.4%	485	7.1%
2006	2,826,026	9.3%	503	7.0%
2007	3,020,827	9.7%	524	7.9%
2008	3,196,491	10.5%	544	8.1%
2009	3,337,606	11.3%	567	9.0%
2010	3,411,012	11.2%	586	8.5%
		Forecast		
2011	3,595,708	11.9%	614	8.8%
2012	3,918,260	12.8%	667	9.4%
2013	4,083,654	13.0%	693	9.6%
2014	4,249,048	13.3%	715	9.7%
2015	4,414,441	13.6%	737	9.9%
2016	4,579,835	14.0%	760	10.2%
2017	4,745,229	14.3%	782	10.4%
2018	4,910,623	14.6%	804	10.6%
2019	5,076,017	15.0%	826	10.8%
2020	5,241,411	15.3%	849	11.0%

Chart 6

Adjustment to the Peak Demand Forecast for Electric Efficiency Savings



Notes

o Existing and Planned DSM consists of savings from existing electric efficiency programs and programs currently planned.

o Existing and Planned DSM falls in the absence of new programs to replace those that expire.

o Stable DSM assumes that total savings continue to increase at the 2000-2010 historic rate.

o Stable DSM is included in the model-produced PSA load forecast.

o Existing and Forecast DSM assumes that total savings will increase at the 2000-2010 historic rate after the completion of planned programs.

o The difference between Forecasted DSM and Stable DSM is subtracted from the model-produced PSA forecast.

o Peak savings are from passive electric efficiency programs only.

Source: Energy Efficiency Dept.

Chart 7
Plug-in Electric Vehicle Impact on Residential Feeders

The analysis framework includes four different charging cases, each with different investment implications.

Charging Case	Description	Diversity factor	Coincidence with peak demand	Net Peak Contribution (% of gross PEV charging requirement)
Worst Case	• All vehicle are plugged in and charging at the same time • Charging is uncontrolled and occurs on peak	100%	100%	100%
Uncontrolled	• Charging is uncontrolled • Charging load is based on "likely" conditions in terms of how many vehicles will be plugged in at any given time and charging while plugged in	75%	90%	68%
TOU with some control	• Charging is subject to simple controls and time-of-use tariffs to encourage (but not require) off-peak charging	75%	20%	15%
Smart control	• Charging is subject to smart controls and related tariffs to manage peak demand impacts	75%	5%	4%

Notes:

- These are preliminary estimates.
- The "diversity factor" is based on commuting habits, which are assumed to be the same in all cases, except the Worst Case.
- Coincidence with peak demand is never zero because some customers will override control. The availability and use of public charging could also impact the coincidence with peak demand.

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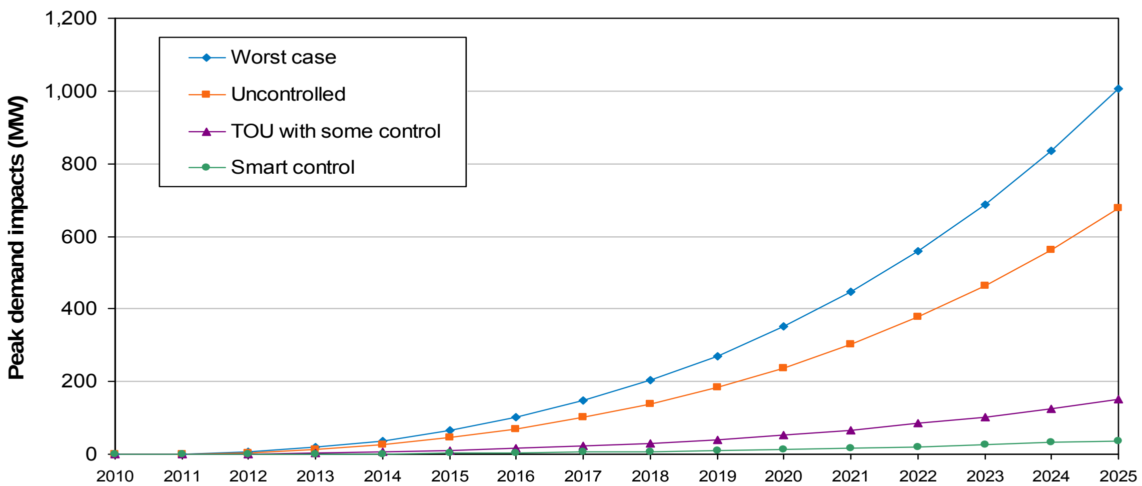
In the Mid-Range Scenario, the PEV peak demand impacts in NGrid-NE could reach 53 MW by 2020 in the TOU case.



Note: National Grid New England service territory, based on the evening peak on residential feeders.

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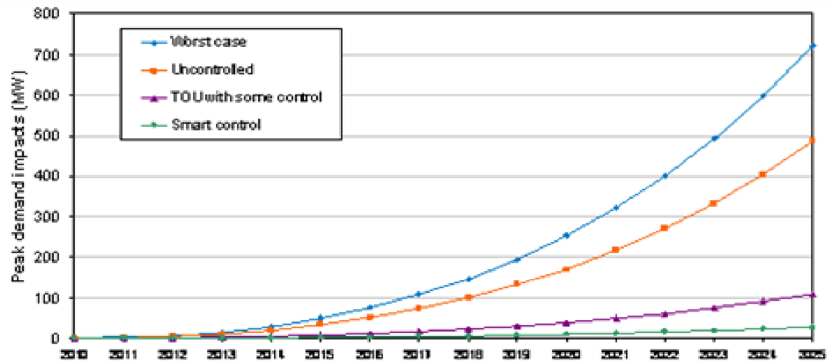
Chart 7 (Continued)
Plug-in Electric Vehicle Impact on Residential Feeders

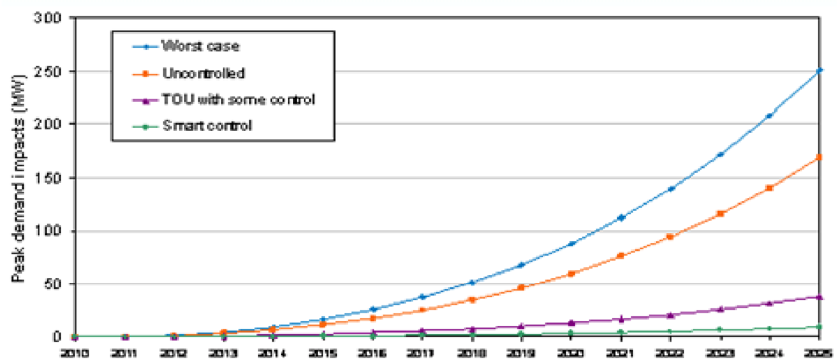
In the Mid-Range Scenario, the PEV peak demand impacts in Massachusetts service area could reach 38 MW by 2020 in the TOU case



Note: National Grid MA service territory, based on the evening peak on residential feeders.

3

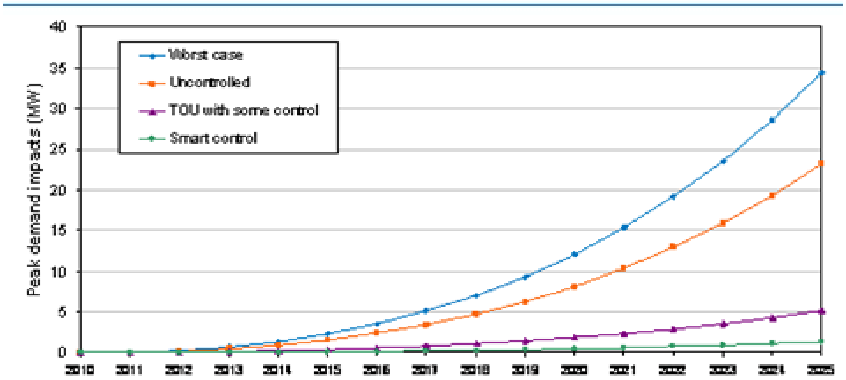
In the Mid-Range Scenario, the PEV peak demand impacts in Rhode Island could reach 13 MW by 2020 in the TOU case



Note: National Grid RI service territory, based on the evening peak on residential feeders.

4

In the Mid-Range Scenario, the PEV peak demand impacts in the Granite State service area could reach 2 MW by 2020 in the TOU case



Note: National Grid NH service territory, based on the evening peak on residential feeders.

5

Chart 8

2011 Power Supply Area Forecast
Moody's Economy.Com Economic Outlook
(Sum of Counties Used in PSA Forecasting Models)

Year	Total Employment	Growth Rate	Real Disposable Income ($mill 2000)	Growth Rate	Population	Growth Rate	Number of Households	Growth Rate
====	=========	=====	=======	=====	=======	=====	=======	=====
2000	3,100,171		$2,862,544		6,421,399		2,447,178	
2001	3,114,889	0.5%	$2,891,483	1.0%	6,463,297	0.7%	2,461,294	0.6%
2002	3,050,901	-2.1%	$2,871,443	-0.7%	6,493,272	0.5%	2,471,411	0.4%
2003	3,009,468	-1.4%	$2,858,940	-0.4%	6,508,755	0.2%	2,476,008	0.2%
2004	3,014,278	0.2%	$2,910,757	1.8%	6,512,160	0.1%	2,476,112	0.0%
2005	3,030,411	0.5%	$2,928,580	0.6%	6,511,748	0.0%	2,474,272	-0.1%
2006	3,058,433	0.9%	$3,058,365	4.4%	6,523,865	0.2%	2,476,664	0.1%
2007	3,080,251	0.7%	$3,140,055	2.7%	6,541,799	0.3%	2,480,363	0.1%
2008	3,078,241	-0.1%	$3,123,826	-0.5%	6,573,129	0.5%	2,490,158	0.4%
2009	2,959,368	-3.9%	$3,076,239	-1.5%	6,613,254	0.6%	2,503,910	0.6%
2010	2,939,279	-0.7%	$3,094,870	0.6%	6,643,779	0.5%	2,518,691	0.6%
2011	2,964,406	0.9%	$3,161,947	2.2%	6,658,752	0.2%	2,530,232	0.5%
2012	3,010,150	1.5%	$3,289,016	4.0%	6,669,421	0.2%	2,544,031	0.5%
2013	3,076,421	2.2%	$3,412,873	3.8%	6,680,929	0.2%	2,558,287	0.6%
2014	3,146,558	2.3%	$3,506,444	2.7%	6,693,690	0.2%	2,573,468	0.6%
2015	3,181,692	1.1%	$3,579,369	2.1%	6,705,789	0.2%	2,587,522	0.5%
2016	3,191,985	0.3%	$3,648,887	1.9%	6,716,568	0.2%	2,598,718	0.4%
2017	3,194,343	0.1%	$3,711,902	1.7%	6,727,629	0.2%	2,608,136	0.4%
2018	3,195,964	0.1%	$3,769,686	1.6%	6,739,430	0.2%	2,616,794	0.3%
2019	3,198,387	0.1%	$3,825,788	1.5%	6,751,712	0.2%	2,624,762	0.3%
2020	3,203,247	0.2%	$3,883,686	1.5%	6,764,579	0.2%	2,631,947	0.3%
2021	3,210,610	0.2%	$3,942,761	1.5%	6,777,617	0.2%	2,637,984	0.2%
2022	3,217,808	0.2%	$3,999,739	1.4%	6,790,719	0.2%	2,643,010	0.2%
2023	3,223,843	0.2%	$4,057,780	1.5%	6,803,875	0.2%	2,646,575	0.1%
2024	3,230,200	0.2%	$4,118,423	1.5%	6,816,671	0.2%	2,649,351	0.1%
2025	3,236,956	0.2%	$4,180,251	1.5%	6,829,355	0.2%	2,651,181	0.1%
Compound Annual Growth:								
Ten-Year	2000-2010	-0.5%		0.8%		0.3%		0.3%
Five-Year	2005-2010	-0.6%		1.1%		0.4%		0.4%
Five-Year	2010-2015	1.6%		3.0%		0.2%		0.5%
Ten-Year	2010-2020	0.9%		2.3%		0.2%		0.4%
Fifteen-Year	2010-2025	0.6%		2.0%		0.2%		0.3%

Source: Moody's Economy.com, January 2011 release.

Overview of Forecast Process and Results

Summary

National Grid's peak demand forecasting process entails developing summer and winter peak demand forecasts for distribution planning areas known as Power Supply Areas (PSAs). This is a "bottom-up" approach in which separate econometric forecasts are developed for 26 PSAs that make up the New England service area. The econometric models predict monthly PSA peak demands as a function of county-level economic variables and peak-day weather conditions. In addition, PSA forecast results are allocated to the 230 towns that make up National Grid's New England service area. The allocation of the PSA forecast to towns is based on regression models that predict trends in town MWh growth. Chart 9 below shows the 26 PSAs and the towns served by each.

The PSA forecasts at time of the Distribution Company peak are aggregated to yield peak forecasts for each Distribution Company as well as its various Districts and Divisions. PSA peak demand is forecasted through the year 2025.

Forecasts of a PSA's own peak – that is, the highest demand reached within a given PSA – are calculated by multiplying forecasted PSA peak at time of the company peak by coincidence factors. These coincidence factors are calculated as the historical ratio of a PSA's maximum peak demand to its peak at time of the company peak.

To capture the uncertainty associated with peak-day weather conditions, peak demands are forecasted under both normal weather conditions (weather that has a 50% chance of occurring) and extreme weather conditions (weather that has only a 5% chance of occurring). The extreme weather peak forecast scenario represents an upper bound that can be expected for a given set of economic conditions.

Forecast Methodology

Regression models are used to develop baseline peak forecasts for each PSA. There is a separate model for each PSA. The models relate a PSA's historical coincident peak, that is, demand at time of the distribution Company peak, to observed peak-day weather conditions and county-level economic variables. These weather and economic variables are described in more detail below. Using either normal or extreme weather conditions, and economic forecasts from Moody's Economy.com, the models predict future PSA coincident peaks for each year of the forecast horizon. Incremental demand-side management (DSM) impacts are subtracted from the model produced results. Large incremental load additions, *spot loads*, may be added to the baseline regression forecast. Spot loads are defined as new load additions (and reductions) that are potentially 1 MW or greater and can be attributed to specific customers. Information regarding these loads, if any, are collected by the Planner Engineers at the time of their studies and used to adjust the PSA forecast results.

The regression models are based on thirteen years of monthly historical data, from 1997:m1 to 2010:m12. Projected summer and winter demands are taken from the monthly results as the highest monthly demand predicted within these seasons. Regression results are shown in Appendix I.

Chart 9
National Grid New England Service Area
by
Power Supply Area (PSA) and Town

MASSACHUSETTS

Gardner PSA
- Gardner
- Hubbardston
- Westminster
- Winchendon

Leominster PSA
- Ayer
- Berlin
- Bolton
- Clinton
- Dunstable
- Groton
- Harvard
- Lancaster
- Leominster
- Pepperell
- Shirley

Webster PSA
- Charlton
- Dudley
- Grafton
- Millbury
- Oxford
- Southbridge
- Spencer
- Sturbridge
- Sutton
- Webster

Worcester PSA
- Auburn
- Brookfield
- E. Brookfield
- Leicester
- N. Brookfield
- New Braintree
- Oakham
- Rutland
- W. Brookfield
- Worcester

Wyman PSA

Adams PSA
- Adams
- Charlemont
- Cheshire
- Clarksburg
- Florida-Drury
- Hancock
- Hawley
- Heath
- Monroe
- North Adams
- Rowe
- Williamstown

Athol PSA
- Athol
- Barre
- Erving
- New Salem
- Orange
- Petersham
- Phillipston
- Royalston
- Shutesbury
- Warwick
- Wendall

Northampton PSA
- Goshen
- Northampton
- Williamsburg

Palmer PSA
- Belchertown
- Brimfield
- East Longmeadow
- Granby
- Hampden
- Hardwick
- Holland
- Monson
- Palmer-3Rivers
- Wales
- Ware
- Warren
- Wilbraham

South Berkshire PSA
- Alford
- Egremont
- Gt. Barrington
- Lenox
- Monterey
- Mt.Washington
- New Marlboro
- Sheffield
- Stockbridge
- W.Stockbridge

Merrimcack Valley PSA
- Amesbury
- Andover
- Billerica
- Boxford
- Chelmsford
- Dracut
- Haverhill
- Lawrence
- Lowell
- Methuen
- Newbury
- Newburyport
- No. Andover
- Salisbury
- Tewksbury
- Tyngsboro
- West Newbury
- Westford

Essex PSA
- Beverly
- Essex
- Gloucester
- Hamilton
- Manchester
- Rockport
- Salem
- Topsfield
- Wenham

Suburban PSA
- Everett
- Lynn
- Malden
- Medford
- Melrose
- Nahant
- Revere
- Saugus
- Swampscott
- Winthrop

Attleboro PSA
- Attleboro
- Bellingham
- Foxboro
- Franklin
- Norton
- Plainville
- Rehoboth
- Seekonk
- Wrentham

Fall River PSA
- Dighton
- Fall River
- Somerset
- Swansea
- Westport

Marlboro PSA
- Marlboro
- Northboro
- Southboro
- Westboro

Uxbridge PSA
- Blackstone
- Douglas
- Hopedale
- Mendon
- Milford
- Millville
- Upton
- Uxbridge
- Whitinsville

Brockton PSA
- Abbington
- Avon
- Bridgewater
- Brockton
- Cohasset
- East Bridgewater
- Easton
- Halifax
- Hanover
- Hanson
- Norwell
- Pembroke
- Rockland
- Scituate
- Sharon
- Stoughton
- West Bridgewater
- Whitman

Weymouth PSA
- Hingham
- Holbrook
- Quincy
- Randolph
- Weymouth

Nantucket PSA
- Nantucket

RHODE ISLAND

Blackstone Valley PSA
- Burrillville
- Central Falls
- Cumberland
- Lincoln
- North Smithfield
- Pawtucket
- Woonsocket

Newport PSA
- Middletown
- Newport
- Portsmouth

Providence PSA
- Barrington
- Bristol
- East Providence
- North Providence
- Providence
- Warren

Western Narragansett PSA
- Charlestown
- Coventry
- Cranston
- East Greenwich
- Exeter
- Foster
- Glouster
- Hopkington
- Jamestown
- Johnston
- Little Compton
- Narragansett
- North Kingstown
- Richmond
- Scituate
- Smithfield
- South Kingstown
- Tiverton
- Warwick
- West Greenwich
- West Warwick
- Westerly

NEW HAMPSHIRE

Eastern Granite State PSA
- Derry
- Pelham
- Salem
- Windham

Western Granite State PSA
- Acworth
- Alstead
- Bath
- Canaan
- Charlestown
- Cornish
- Enfield
- Grafton
- Hanover
- Langdon
- Lebanon
- Marlow
- Monroe
- Orange
- Plainfield
- Surry
- Walpole

Regional Economic Drivers

Moody's Economy.com provides historical and forecasted economic conditions at the county level. Chart 8 above summarizes the county-level historical and forecast values of these economic variables aggregated to National Grid's New England service territory. Economy.com's *county-level* forecasts are used in the PSA forecasting models. Each PSA is assigned to a county based on the PSA's location. Chart 10 below shows the assignment of PSAs to counties. While not a perfect match with defined PSAs, this process allows for a better correlation of PSA peak demand growth and underlying area economic activity than does the use of state or national economic forecasts alone. For most models, county-level employment and number of households are combined, with employment weighted 60% and households weighted 40%, to create a single monthly economic index variable, EconIndex (2005=1.00).

Chart 10
PSA County Assignments

PSA	County	PSA	County
Gardner	Worcester	Attleboro	Bristol
Leominster	Worcester	Fall River	Middlesex
Webster	Worcester	Marlboro	Bristol
Worcester	Worcester	Uxbridge	Worcester
Adams	Berkshire	Brockton	Plymouth
Athol	Worcester	Weymouth	Norfolk
Northampton	Hampshire	Blackstone Valley	Providence
Palmer	Hampden	Newport	Newport
South Berkshire	Berkshire	Providence	Providence
Merrimack	Essex	Western RI	Providence
Essex	Essex	Eastern Geco	Rockingham
Suburban	Middlesex	Western Geco	Grafton

PSA Load Data

PSA load data were provided by National Grid's distribution planning engineers. Data include monthly peaks at time of the company peak and the PSA coincident peaks (each PSA's highest peak demand). This data is collected from remote access pulse recorders (RAPRs) located at tie-line and substation metering points that define the PSAs. The historical PSA loads collected for the seasonal peaks are shown along with their forecasted values in Appendices A-H.

Peak Day Weather Data

Peak day weather data were collected from the four major weather stations located within National Grid's New England service territory. These stations – Boston, Worcester, Providence and Concord, New Hampshire – are first-order weather stations for which the quality of data is high. The following peak-day temperature concepts were collected for each weather station:

- Maximum temperature on the day of the peak
- Minimum temperature on the day of the peak
- Maximum temperature for the day prior to the peak

- Minimum temperature for the day prior to the peak
- Maximum temperature two-days prior to the peak
- Minimum temperature two-days prior to the peak

These temperature concepts were used to generate the following weather explanatory variables in the model:

MaxCDD65 = (maximum temperature on the day of the peak – 65), or 0 if the maximum temperature is less than or equal to 65;

CumMinCDD = (.7 * minimum temperature on day of the peak - 60) + (.3 * minimum temperature on day prior to the peak - 60), or 0 if minimum temperature is less than or equal to 60;

MaxHDD55 = (55 – maximum temperature on the day of the peak), or 0 if maximum temperature is greater than or equal to 55.

In most models these weather variables are multiplied by a time trend in order to capture increasing sensitivity of load to weather over time. The regression models are estimated using the actual historical values of these weather variables. The estimated regression models are then used to simulate historical and forecasted PSA demand under two weather scenarios, normal weather and extreme weather.

Normal Weather Scenario Forecast

The normal weather scenario PSA demand forecast assumes the same normal peak-producing weather for each year of the forecast. This is the most likely weather scenario as there is a 50% probability that actual weather will be more extreme than normal and a 50% probability that the weather will be less extreme than normal.

The normal weather scenario is shown in Appendix J for each weather station. Normal peak-day weather conditions are calculated from historical peak-day weather covering the 20-year period from 1991-2010. A rank and average method is used to derive the seasonal peak-day temperature variables. For each season, monthly peak-day temperatures are ranked from the highest to lowest temperature. The highest peak day temperatures for the season are selected regardless of what month the seasonal peak occurred. These peak day temperatures are then averaged over the 20-year historical period. For the summer season, the seasonal average temperatures are placed in August and for the winter season they are placed in January. For the remaining months, normal peak day producing temperatures are calculated as the 20-year average of the monthly peak day temperatures.

Extreme Weather Scenario Forecast

An extreme weather scenario PSA demand forecast is generated to capture the peak demand upper bound for a given set of economic conditions. There is only a 5% probability that actual peak-producing weather will be more extreme than under this scenario.

The same rank and average method used to calculate normal seasonal peak day weather conditions is used to calculate extreme weather conditions. For each season, monthly peak-day temperatures are ranked from the highest to lowest temperature. For the summer season, the highest peak day temperatures are selected regardless of what month the seasonal peak occurred. The highest of these peak day temperatures over the 20-year historical period is then selected for the extreme weather scenario and placed in August. Extreme weather peak day temperatures for the winter season are calculated in the same way except that minimum temperatures are selected for the season rather than maximums. The summer extreme peak temperatures are placed in August and the winter extreme peak day temperatures are placed in January. For the remaining months, extreme peak day producing temperatures are calculated as the highest (summer season months) or lowest (winter season months) peak day temperatures over the 20-year historical period. Appendix J shows the extreme weather scenario for each weather station.

Demand Side Management

National Grid has been implementing energy efficiency programs in its service area since 1987. Chart 5 above (page 9) shows the cumulative impact of these programs on peak demand and energy over time. Chart 5 indicates that these programs reduced the New England summer peak by 586 MW in 2010. Massachusetts Electric and Nantucket Electric saved 419 MW on its 2010 summer peak while Narragansett Electric and Granite State Electric saved 151 MW and 16 MW, respectively.

The cumulative DSM savings shown on Chart 5 include National Grid's passive electric efficiency programs only. Existing or planned savings from Interruptible loads, direct load control, non-wires alternatives and SMARTGRID savings are not included.

Chart 5 shows that total New England service area DSM savings on peak increased from 6.6% of total peak in 2000 to 8.5% in 2010, a 22 MW per year increase on average. Massachusetts DSM savings on peak averaged a 14 MW per year increase from 2000 to 2010, rising from 275 MW to 419 MW. Rhode Island savings on peak averaged an 8 MW per year increase while Granite State savings on peak increased approximately 1 MW per year.

National Grid must continually add new programs to maintain these historical increases. Total DSM savings fall quickly without new programs because these savings are the sum total of savings from all of National Grid's existing DSM programs, some of which are new and some which were installed several years ago. As program lifetimes expire, cumulative DSM savings fall unless new programs are introduced to replace them.

This is illustrated on Chart 6 above (page 10) which plots cumulative DSM savings under three forecast scenarios: Existing and Planned, Stable DSM and Existing and Forecast. The Existing and Planned scenario includes savings from existing DSM programs and new programs currently planned. Under this scenario, cumulative DSM savings increase faster than the historic rate until 2012. After 2013 savings fall as no new programs are assumed to replace those that expire.

The Stable DSM scenario assumes a continuation of cumulative DSM savings at the 2000-2010 historic rate for all future years. The Existing and Forecast scenario assumes Existing and Planned DSM through 2012, when savings increase faster than the historic rate (based on currently planned programs). After 2012, the Existing and Forecast scenario assumes that annual DSM savings increase at the 2000-2010 historic rate.

DSM Adjustment to the PSA Load Forecast

The econometric model-produced PSA load forecast implicitly assumes the Stable DSM scenario. This is because actual, historic DSM savings and trends are embedded in the metered load data used to estimate the econometric models. These savings and trends carry into the forecast at approximately the historic rate. However, the Existing and Forecast DSM scenario is more likely than Stable DSM because it includes currently planned programs and then a continuation of historic savings increases. Thus, the difference between Existing and Forecast DSM and Stable DSM is subtracted from the econometric forecast results. This is an appropriate method of adjusting econometric load forecasts for DSM savings where there is a long history of program activity in the service area, according to a 2010 Itron white paper.[1]

The incremental DSM adjustments to forecasted summer and winter peak demands are shown in Appendices A-H. In these reports, total service area incremental DSM was allocated to the PSAs based on load.

Although the incremental DSM adjustments shown in Appendices A-H do not include savings from National Grid's interruptible programs, direct load control, various non-wires alternatives, SMARTGRID or other active programs, forecast scenarios for these can be used to adjust the baseline forecasts with DSM provided in Appendices A-H.

Plug-in Electric Vehicles

The PSA load forecast may also be adjusted for various plug-in electric vehicle scenarios. National Grid has developed estimates of the future impact of plug-in electric vehicles (PEVs) on peak demand on residential feeders under several penetration scenarios and four charging cases. The impacts for the mid-range vehicle penetration scenario under the four charging cases are shown on Chart 7 above (page 11) for National Grid's New England service areas.

These estimated PEV impacts are not included in any of the forecasted PSA load levels published in this report. However, the planner may add estimated PEV load impacts from one of these scenarios to the base line load forecast he or she is using. Before adding the PEV impacts, an appropriate coincidence factor would have to be applied since the impacts are on the residential peak, which usually occurs during a weekday evening, rather than the system peak, which usually occurs during a weekday afternoon.

In the near term, the most representative charging case is Uncontrolled. Chart 7 indicates that the impact of PEVs on the New England residential peak could reach approximately 240 MW by 2020 under this case. Moving forward it is likely that time of use (TOU) rates will be implemented and the TOU charging case will become representative of grid impacts. In this case, the PEV impact on the New England residential peak could reach 53 MW by 2020. Under the worst case charging scenario, all PEVs would be plugged in at the same time, during the residential peak, and impacts are estimated at 350 MW by 2020. Under the Smart control case, PEVs would have not significant impact on the residential peak in 2020, but this is not the most likely case.

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[1] Stuart McMenamin and Mark Quan, "Incorporating DSM into the Load Forecast," Itron Energy Forecasting and Load Research, copyright 2010, Itron, Inc white paper.

Spot Load Adjustments

Projected spot loads may also be added to the base line statistical forecast. Regression models do not adequately capture large jumps in incremental loads. Spot load adjustments represent major load additions (or losses) that are not likely to be captured in an econometric trend model. Only new load additions (and reductions) that are potentially 1 MW or greater, and can be attributed to specific customers, are considered as spot loads. However, the actual adjustment to the model results is equal to the potential load change times the expected probability of the load actually coming on line. Since this probability is often less than 100%, spot load adjustments can be less than 1 MW.

Spot load estimates are collected by National Grid's distribution planning engineers at the time that an individual area study is done. Planners provide information on the load potential, the expected probability of the load occurring, and the timing (expected year and month) of the spot load.

Town-Level Forecasts

Final PSA demand forecasts are allocated to towns based on historical trends in town-level MWh growth. The methodology is based on town-level MWh delivery data, covering the period 1996-2007.

Separate regression equations are estimated for each of the 230 towns in National Grid's New England service territory. The regressions relate annual town-level MWh deliveries to a linear time trend and predict town MWh load for each forecast year. For the historical period, a town's MW peak is estimated by multiplying that town's share of total PSA MWh by the actual PSA peak. For the forecast period, each town is allocated a portion of overall forecasted PSA MW growth. The portion of PSA MW growth allocated to a town is determined by that town's share in total PSA MWh growth, as predicted by the sum of the individual town-level regression equations. This is done for the first five years of the PSA forecast. After five years, all town-level peak demand growth rates converge to the overall PSA demand growth rate. The convergence period is three years.

This process yields town-level peak demand forecasts that add up to the overall PSA peak demand forecast yet grow at different rates, reflecting different trends in recent, historical town-level MWh growth. Forecasted town-level growth rates and MW demands, as well as the historical town-level MWh levels and trend growth rates upon which the allocation of PSA peak to towns is based, are shown in Appendix K.

Appendix G

2011 Power Supply Area Forecast

Narragansett Electric Company

Summer Peak Demands

Energy Portfolio Management
Electric Load Forecasting

March 31, 2011

Contents

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
SUMMER PEAK DEMANDS COINCIDENT WITH COMPANY PEAK
ACTUAL HISTORY AND FORECAST WITH EXTREME WEATHER AND DSM
(MW)

Year	Mo	Sum of Narragansett PSAs	Growth Rate	Providence PSA	Growth Rate	Western PSA	Growth Rate	Blackstone PSA	Growth Rate	Newport PSA	Growth Rate
2000	8	1,475.400	(2.3%)	393.200	(1.0%)	694.600	(5.6%)	278.800	4.9%	108.800	(2.8%)
2001	8	1,663.324	12.7%	428.366	8.9%	809.650	16.6%	304.708	9.3%	120.600	10.8%
2002	8	1,687.100	1.4%	435.500	1.7%	823.600	1.7%	310.500	1.9%	117.500	(2.6%)
2003	8	1,635.877	(3.0%)	427.664	(1.8%)	810.294	(1.6%)	277.719	(10.6%)	120.200	2.3%
2004	8	1,601.714	(2.1%)	421.297	(1.5%)	773.807	(4.5%)	289.110	4.1%	117.500	(2.2%)
2005	8	1,787.842	11.6%	450.357	6.9%	888.742	14.9%	321.643	11.3%	127.100	8.2%
2006	8	1,931.975	8.1%	496.525	10.3%	957.751	7.8%	334.899	4.1%	142.800	12.4%
2007	8	1,760.051	(8.9%)	453.880	(8.6%)	873.969	(8.7%)	304.101	(9.2%)	128.101	(10.3%)
2008	6	1,781.256	1.2%	469.340	3.4%	871.427	(0.3%)	321.389	5.7%	119.100	(7.0%)
2009	8	1,675.809	(5.9%)	436.014	(7.1%)	825.661	(5.3%)	287.434	(10.6%)	126.700	6.4%
2010	7	1,748.764	4.4%	469.396	7.7%	869.425	5.3%	267.969	(6.8%)	141.974	12.1%
Forecast											
2011	8	1,807.433	3.4%	465.160	(0.9%)	920.042	5.8%	293.177	9.4%	129.054	(9.1%)
2012	8	1,848.917	2.3%	468.286	0.7%	952.746	3.6%	294.885	0.6%	133.000	3.1%
2013	8	1,900.237	2.8%	472.919	1.0%	992.105	4.1%	297.417	0.9%	137.795	3.6%
2014	8	1,951.857	2.7%	477.599	1.0%	1,031.668	4.0%	299.974	0.9%	142.617	3.5%
2015	8	1,992.859	2.1%	480.651	0.6%	1,064.046	3.1%	301.641	0.6%	146.521	2.7%
2016	8	2,026.041	1.7%	482.504	0.4%	1,091.133	2.5%	302.654	0.3%	149.750	2.2%
2017	8	2,054.026	1.4%	483.561	0.2%	1,114.704	2.2%	303.232	0.2%	152.529	1.9%
2018	8	2,080.288	1.3%	484.354	0.2%	1,137.109	2.0%	303.665	0.1%	155.160	1.7%
2019	8	2,105.443	1.2%	484.977	0.1%	1,158.765	1.9%	304.006	0.1%	157.695	1.6%
2020	8	2,131.262	1.2%	485.702	0.1%	1,180.870	1.9%	304.402	0.1%	160.288	1.6%
2021	8	2,157.126	1.2%	486.433	0.2%	1,203.006	1.9%	304.802	0.1%	162.885	1.6%
2022	8	2,182.879	1.2%	487.148	0.1%	1,225.067	1.8%	305.192	0.1%	165.472	1.6%
2023	8	2,208.381	1.2%	487.824	0.1%	1,246.958	1.8%	305.562	0.1%	168.037	1.6%
2024	8	2,233.871	1.2%	488.499	0.1%	1,268.841	1.8%	305.930	0.1%	170.601	1.5%
2025	8	2,259.381	1.1%	489.176	0.1%	1,290.737	1.7%	306.300	0.1%	173.167	1.5%
Compound Annual Growth											
2000-2010 Ten Year			1.7%		1.8%		2.3%		(0.4%)		2.7%
2010-2015 Five Year			2.6%		0.5%		4.1%		2.4%		0.6%
2010-2020 Ten Year			2.0%		0.3%		3.1%		1.3%		1.2%
2010-2025 Fifteen Year			1.7%		0.3%		2.7%		0.9%		1.3%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
COMPANY SUMMER PEAK DEMANDS WITH DSM (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2000	8	1,475.400	.	1,475.400	.	1,672.298	.	1,581.572	.	0.000	0.0%
2001	8	1,663.324	12.7%	1,663.324	12.7%	1,702.014	1.8%	1,607.296	1.6%	0.000	0.0%
2002	8	1,687.100	1.4%	1,687.100	1.4%	1,746.079	2.6%	1,647.370	2.5%	0.000	0.0%
2003	8	1,635.877	(3.0%)	1,635.877	(3.0%)	1,814.306	3.9%	1,711.605	3.9%	0.000	0.0%
2004	8	1,601.714	(2.1%)	1,601.714	(2.1%)	1,877.056	3.5%	1,770.363	3.4%	0.000	0.0%
2005	8	1,787.842	11.6%	1,787.842	11.6%	1,835.697	(2.2%)	1,725.013	(2.6%)	0.000	0.0%
2006	8	1,931.975	8.1%	1,931.975	8.1%	1,961.923	6.9%	1,847.247	7.1%	0.000	0.0%
2007	8	1,760.051	(8.9%)	1,760.051	(8.9%)	1,912.138	(2.5%)	1,793.471	(2.9%)	0.000	0.0%
2008	6	1,781.256	1.2%	1,781.256	1.2%	1,807.895	(5.5%)	1,685.236	(6.0%)	0.000	0.0%
2009	8	1,675.809	(5.9%)	1,675.809	(5.9%)	1,822.677	0.8%	1,696.027	0.6%	0.000	0.0%
2010	7	1,748.764	4.4%	1,748.764	4.4%	1,832.356	0.5%	1,701.715	0.3%	0.000	0.0%
Forecast											
2011	8	1,807.433	3.4%	1,672.799	(4.3%)	1,807.433	(1.4%)	1,672.799	(1.7%)	0.636	0.0%
2012	8	1,848.917	2.3%	1,710.292	2.2%	1,848.917	2.3%	1,710.292	2.2%	0.636	0.0%
2013	8	1,900.237	2.8%	1,757.620	2.8%	1,900.237	2.8%	1,757.620	2.8%	0.636	0.0%
2014	8	1,951.857	2.7%	1,805.249	2.7%	1,951.857	2.7%	1,805.249	2.7%	0.636	0.0%
2015	8	1,992.859	2.1%	1,842.259	2.1%	1,992.859	2.1%	1,842.259	2.1%	0.636	0.0%
2016	8	2,026.041	1.7%	1,871.450	1.6%	2,026.041	1.7%	1,871.450	1.6%	0.636	0.0%
2017	8	2,054.026	1.4%	1,895.443	1.3%	2,054.026	1.4%	1,895.443	1.3%	0.636	0.0%
2018	8	2,080.288	1.3%	1,917.713	1.2%	2,080.288	1.3%	1,917.713	1.2%	0.636	0.0%
2019	8	2,105.443	1.2%	1,938.877	1.1%	2,105.443	1.2%	1,938.877	1.1%	0.636	0.0%
2020	8	2,131.262	1.2%	1,960.704	1.1%	2,131.262	1.2%	1,960.704	1.1%	0.636	0.0%
2021	8	2,157.126	1.2%	1,982.576	1.1%	2,157.126	1.2%	1,982.576	1.1%	0.636	0.0%
2022	8	2,182.879	1.2%	2,004.338	1.1%	2,182.879	1.2%	2,004.338	1.1%	0.636	0.0%
2023	8	2,208.381	1.2%	2,025.848	1.1%	2,208.381	1.2%	2,025.848	1.1%	0.636	0.0%
2024	8	2,233.871	1.2%	2,047.347	1.1%	2,233.871	1.2%	2,047.347	1.1%	0.636	0.0%
2025	8	2,259.381	1.1%	2,068.865	1.1%	2,259.381	1.1%	2,068.865	1.1%	0.636	0.0%

Compound Annual Growth

	Actual Extreme	Actual Normal	Weather Adjusted Extreme	Weather Adjusted Normal
2000-2010 Ten Year	1.7%	1.7%	0.9%	0.7%
2005-2010 Five Year	(0.4%)	(0.4%)	(0.0%)	(0.3%)
2010-2015 Five Year	2.6%	1.0%	1.7%	1.6%
2010-2020 Ten Year	2.0%	1.2%	1.5%	1.4%
2010-2025 Fifteen Year	1.7%	1.1%	1.4%	1.3%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
PROVIDENCE PSA
SUMMER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK
(MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	8	450.357	6.9%	450.357	6.9%	463.219	(6.8%)	434.185	(7.2%)	0.000	0.0%
2006	8	496.525	10.3%	496.525	10.3%	502.004	8.4%	472.970	8.9%	0.000	0.0%
2007	8	453.880	(8.6%)	453.880	(8.6%)	490.725	(2.2%)	461.691	(2.4%)	0.000	0.0%
2008	6	469.340	3.4%	469.340	3.4%	464.353	(5.4%)	435.319	(5.7%)	0.000	0.0%
2009	8	436.014	(7.1%)	436.014	(7.1%)	471.321	1.5%	442.287	1.6%	0.000	0.0%
2010	7	469.396	7.7%	469.396	7.7%	482.151	2.3%	453.116	2.4%	0.000	0.0%
Forecast											
2011	8	465.160	(0.9%)	436.125	(7.1%)	465.160	(3.5%)	436.125	(3.7%)	0.164	0.0%
2012	8	468.286	0.7%	439.252	0.7%	468.286	0.7%	439.252	0.7%	0.161	0.0%
2013	8	472.919	1.0%	443.885	1.1%	472.919	1.0%	443.885	1.1%	0.158	0.0%
2014	8	477.599	1.0%	448.564	1.1%	477.599	1.0%	448.564	1.1%	0.156	0.0%
2015	8	480.651	0.6%	451.616	0.7%	480.651	0.6%	451.616	0.7%	0.153	0.0%
2016	8	482.504	0.4%	453.470	0.4%	482.504	0.4%	453.470	0.4%	0.151	0.0%
2017	8	483.561	0.2%	454.527	0.2%	483.561	0.2%	454.527	0.2%	0.150	0.0%
2018	8	484.354	0.2%	455.319	0.2%	484.354	0.2%	455.319	0.2%	0.148	0.0%
2019	8	484.977	0.1%	455.943	0.1%	484.977	0.1%	455.943	0.1%	0.146	0.0%
2020	8	485.702	0.1%	456.667	0.2%	485.702	0.1%	456.667	0.2%	0.145	0.0%
2021	8	486.433	0.2%	457.399	0.2%	486.433	0.2%	457.399	0.2%	0.143	0.0%
2022	8	487.148	0.1%	458.114	0.2%	487.148	0.1%	458.114	0.2%	0.142	0.0%
2023	8	487.824	0.1%	458.790	0.1%	487.824	0.1%	458.790	0.1%	0.140	0.0%
2024	8	488.499	0.1%	459.464	0.1%	488.499	0.1%	459.464	0.1%	0.139	0.0%
2025	8	489.176	0.1%	460.142	0.1%	489.176	0.1%	460.142	0.1%	0.138	0.0%

Compound Annual Growth

	With Actual History Extreme Growth Rate	With Actual History Normal Growth Rate	With Weather Adjusted History Extreme Growth Rate	With Weather Adjusted History Normal Growth Rate
2005-2010 Five Year	0.8%	0.8%	0.8%	0.9%
2010-2015 Five Year	0.5%	(0.8%)	(0.1%)	(0.1%)
2010-2020 Ten Year	0.3%	(0.3%)	0.1%	0.1%
2010-2025 Fifteen Year	0.3%	(0.1%)	0.1%	0.1%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
WESTERN NECO PSA
SUMMER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK
(MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	8	888.742	.	888.742	.	912.767	.	856.708	.	0.000	0.0%
2006	8	957.751	7.8%	957.751	7.8%	974.790	6.8%	915.153	6.8%	0.000	0.0%
2007	8	873.969	(8.7%)	873.969	(8.7%)	955.246	(2.0%)	892.030	(2.5%)	0.000	0.0%
2008	6	871.427	(0.3%)	871.427	(0.3%)	902.731	(5.5%)	835.938	(6.3%)	0.000	0.0%
2009	8	825.661	(5.3%)	825.661	(5.3%)	906.086	0.4%	835.714	(0.0%)	0.000	0.0%
2010	7	869.425	5.3%	869.425	5.3%	938.505	3.6%	864.555	3.5%	0.000	0.0%
Forecast											
2011	8	920.042	5.8%	842.514	(3.1%)	920.042	(2.0%)	842.514	(2.5%)	0.324	0.0%
2012	8	952.746	3.6%	871.640	3.5%	952.746	3.6%	871.640	3.5%	0.328	0.0%
2013	8	992.105	4.1%	907.421	4.1%	992.105	4.1%	907.421	4.1%	0.332	0.0%
2014	8	1,031.668	4.0%	943.405	4.0%	1,031.668	4.0%	943.405	4.0%	0.336	0.0%
2015	8	1,064.046	3.1%	972.206	3.1%	1,064.046	3.1%	972.206	3.1%	0.340	0.0%
2016	8	1,091.133	2.5%	995.714	2.4%	1,091.133	2.5%	995.714	2.4%	0.343	0.0%
2017	8	1,114.704	2.2%	1,015.707	2.0%	1,114.704	2.2%	1,015.707	2.0%	0.345	0.0%
2018	8	1,137.109	2.0%	1,034.533	1.9%	1,137.109	2.0%	1,034.533	1.9%	0.348	0.0%
2019	8	1,158.765	1.9%	1,052.611	1.7%	1,158.765	1.9%	1,052.611	1.7%	0.350	0.0%
2020	8	1,180.870	1.9%	1,071.138	1.8%	1,180.870	1.9%	1,071.138	1.8%	0.352	0.0%
2021	8	1,203.006	1.9%	1,089.696	1.7%	1,203.006	1.9%	1,089.696	1.7%	0.355	0.0%
2022	8	1,225.067	1.8%	1,108.179	1.7%	1,225.067	1.8%	1,108.179	1.7%	0.357	0.0%
2023	8	1,246.958	1.8%	1,126.492	1.7%	1,246.958	1.8%	1,126.492	1.7%	0.359	0.0%
2024	8	1,268.841	1.8%	1,144.797	1.6%	1,268.841	1.8%	1,144.797	1.6%	0.361	0.0%
2025	8	1,290.737	1.7%	1,163.114	1.6%	1,290.737	1.7%	1,163.114	1.6%	0.363	0.0%
Compound Annual Growth											
2005-2010 Five Year			(0.4%)		(0.4%)		0.6%		0.2%		
2010-2015 Five Year			4.1%		2.3%		2.5%		2.4%		
2010-2020 Ten Year			3.1%		2.1%		2.3%		2.2%		
2010-2025 Fifteen Year			2.7%		2.0%		2.1%		2.0%		

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
BLACKSTONE VALLEY PSA
SUMMER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK
(MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	8	321.643	.	321.643	.	329.835	.	310.720	.	0.000	0.0%
2006	8	334.899	4.1%	334.899	4.1%	340.360	3.2%	321.246	3.4%	0.000	0.0%
2007	8	304.101	(9.2%)	304.101	(9.2%)	328.677	(3.4%)	309.562	(3.6%)	0.000	0.0%
2008	6	321.389	5.7%	321.389	5.7%	300.273	(8.6%)	281.158	(9.2%)	0.000	0.0%
2009	8	287.434	(10.6%)	287.434	(10.6%)	309.279	3.0%	290.165	3.2%	0.000	0.0%
2010	7	267.969	(6.8%)	267.969	(6.8%)	284.437	(8.0%)	265.323	(8.6%)	0.000	0.0%
Forecast											
2011	8	293.177	9.4%	274.062	2.3%	293.177	3.1%	274.062	3.3%	0.103	0.0%
2012	8	294.885	0.6%	275.771	0.6%	294.885	0.6%	275.771	0.6%	0.101	0.0%
2013	8	297.417	0.9%	278.302	0.9%	297.417	0.9%	278.302	0.9%	0.100	0.0%
2014	8	299.974	0.9%	280.859	0.9%	299.974	0.9%	280.859	0.9%	0.098	0.0%
2015	8	301.641	0.6%	282.527	0.6%	301.641	0.6%	282.527	0.6%	0.096	0.0%
2016	8	302.654	0.3%	283.540	0.4%	302.654	0.3%	283.540	0.4%	0.095	0.0%
2017	8	303.232	0.2%	284.117	0.2%	303.232	0.2%	284.117	0.2%	0.094	0.0%
2018	8	303.665	0.1%	284.550	0.2%	303.665	0.1%	284.550	0.2%	0.093	0.0%
2019	8	304.006	0.1%	284.891	0.1%	304.006	0.1%	284.891	0.1%	0.092	0.0%
2020	8	304.402	0.1%	285.287	0.1%	304.402	0.1%	285.287	0.1%	0.091	0.0%
2021	8	304.802	0.1%	285.687	0.1%	304.802	0.1%	285.687	0.1%	0.090	0.0%
2022	8	305.192	0.1%	286.078	0.1%	305.192	0.1%	286.078	0.1%	0.089	0.0%
2023	8	305.562	0.1%	286.447	0.1%	305.562	0.1%	286.447	0.1%	0.088	0.0%
2024	8	305.930	0.1%	286.816	0.1%	305.930	0.1%	286.816	0.1%	0.087	0.0%
2025	8	306.300	0.1%	287.186	0.1%	306.300	0.1%	287.186	0.1%	0.086	0.0%

Compound Annual Growth	With Actual History: Extreme	With Actual History: Normal	Weather Adjusted: Extreme	Weather Adjusted: Normal
2005-2010 Five Year	(3.6%)	(3.6%)	(2.9%)	(3.1%)
2010-2015 Five Year	2.4%	1.1%	1.2%	1.3%
2010-2020 Ten Year	1.3%	0.6%	0.7%	0.7%
2010-2025 Fifteen Year	0.9%	0.5%	0.5%	0.5%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
NEWPORT PSA
SUMMER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK
(MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	8	127.100	.	127.100	.	129.876	.	123.399	.	0.000	0.0%
2006	8	142.800	12.4%	142.800	12.4%	144.768	11.5%	137.879	11.7%	0.000	0.0%
2007	8	128.101	(10.3%)	128.101	(10.3%)	137.491	(5.0%)	130.188	(5.6%)	0.000	0.0%
2008	6	119.100	(7.0%)	119.100	(7.0%)	140.538	2.2%	132.821	2.0%	0.000	0.0%
2009	8	126.700	6.4%	126.700	6.4%	135.991	(3.2%)	127.861	(3.7%)	0.000	0.0%
2010	7	141.974	12.1%	141.974	12.1%	127.264	(6.4%)	118.720	(7.1%)	0.000	0.0%
Forecast											
2011	8	129.054	(9.1%)	120.097	(15.4%)	129.054	1.4%	120.097	1.2%	0.045	0.0%
2012	8	133.000	3.1%	123.630	2.9%	133.000	3.1%	123.630	2.9%	0.046	0.0%
2013	8	137.795	3.6%	128.012	3.5%	137.795	3.6%	128.012	3.5%	0.046	0.0%
2014	8	142.617	3.5%	132.420	3.4%	142.617	3.5%	132.420	3.4%	0.046	0.0%
2015	8	146.521	2.7%	135.911	2.6%	146.521	2.7%	135.911	2.6%	0.047	0.0%
2016	8	149.750	2.2%	138.726	2.1%	149.750	2.2%	138.726	2.1%	0.047	0.0%
2017	8	152.529	1.9%	141.092	1.7%	152.529	1.9%	141.092	1.7%	0.047	0.0%
2018	8	155.160	1.7%	143.310	1.6%	155.160	1.7%	143.310	1.6%	0.047	0.0%
2019	8	157.695	1.6%	145.432	1.5%	157.695	1.6%	145.432	1.5%	0.048	0.0%
2020	8	160.288	1.6%	147.611	1.5%	160.288	1.6%	147.611	1.5%	0.048	0.0%
2021	8	162.885	1.6%	149.794	1.5%	162.885	1.6%	149.794	1.5%	0.048	0.0%
2022	8	165.472	1.6%	151.968	1.5%	165.472	1.6%	151.968	1.5%	0.048	0.0%
2023	8	168.037	1.6%	154.120	1.4%	168.037	1.6%	154.120	1.4%	0.048	0.0%
2024	8	170.601	1.5%	156.270	1.4%	170.601	1.5%	156.270	1.4%	0.049	0.0%
2025	8	173.167	1.5%	158.423	1.4%	173.167	1.5%	158.423	1.4%	0.049	0.0%

Compound Annual Growth

	Extreme Weather (Actual)	Normal Weather (Actual)	Extreme Weather (Weather Adjusted)	Normal Weather (Weather Adjusted)
2005-2010 Five Year	2.2%	2.2%	(0.4%)	(0.8%)
2010-2015 Five Year	0.6%	(0.9%)	2.9%	2.7%
2010-2020 Ten Year	1.2%	0.4%	2.3%	2.2%
2010-2025 Fifteen Year	1.3%	0.7%	2.1%	1.9%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
PROVIDENCE PSA
PSA COINCIDENT SUMMER PEAK DEMAND WITH DSM
(MW)

		With Actual History				With Weather Adjusted History					
Year		Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	8	450.357	.	450.357	.	464.311	.	435.209	.	0.000	0.0%
2006	8	496.525	10.3%	496.525	10.3%	503.188	8.4%	474.085	8.9%	0.000	0.0%
2007	8	453.880	(8.6%)	453.880	(8.6%)	491.882	(2.2%)	462.779	(2.4%)	0.000	0.0%
2008	6	476.082	4.9%	476.082	4.9%	465.448	(5.4%)	436.346	(5.7%)	0.000	0.0%
2009	8	395.867	(16.8%)	395.867	(16.8%)	472.432	1.5%	443.330	1.6%	0.000	0.0%
2010	7	469.396	18.6%	469.396	18.6%	483.287	2.3%	454.185	2.4%	0.000	0.0%
Forecast											
2011	8	466.257	(0.7%)	437.154	(6.9%)	466.257	(3.5%)	437.154	(3.7%)	0.164	0.0%
2012	8	469.390	0.7%	440.287	0.7%	469.390	0.7%	440.287	0.7%	0.161	0.0%
2013	8	474.035	1.0%	444.932	1.1%	474.035	1.0%	444.932	1.1%	0.158	0.0%
2014	8	478.725	1.0%	449.622	1.1%	478.725	1.0%	449.622	1.1%	0.156	0.0%
2015	8	481.784	0.6%	452.681	0.7%	481.784	0.6%	452.681	0.7%	0.153	0.0%
2016	8	483.642	0.4%	454.539	0.4%	483.642	0.4%	454.539	0.4%	0.151	0.0%
2017	8	484.701	0.2%	455.598	0.2%	484.701	0.2%	455.598	0.2%	0.150	0.0%
2018	8	485.496	0.2%	456.393	0.2%	485.496	0.2%	456.393	0.2%	0.148	0.0%
2019	8	486.121	0.1%	457.018	0.1%	486.121	0.1%	457.018	0.1%	0.146	0.0%
2020	8	486.847	0.1%	457.744	0.2%	486.847	0.1%	457.744	0.2%	0.145	0.0%
2021	8	487.581	0.2%	458.478	0.2%	487.581	0.2%	458.478	0.2%	0.143	0.0%
2022	8	488.297	0.1%	459.194	0.2%	488.297	0.1%	459.194	0.2%	0.142	0.0%
2023	8	488.975	0.1%	459.872	0.1%	488.975	0.1%	459.872	0.1%	0.140	0.0%
2024	8	489.651	0.1%	460.548	0.1%	489.651	0.1%	460.548	0.1%	0.139	0.0%
2025	8	490.329	0.1%	461.227	0.1%	490.329	0.1%	461.227	0.1%	0.138	0.0%

Compound Annual Growth

2005-2010 Five Year	0.8%	0.8%	0.8%	0.9%
2010-2015 Five Year	0.5%	(0.7%)	(0.1%)	(0.1%)
2010-2020 Ten Year	0.4%	(0.3%)	0.1%	0.1%
2010-2025 Fifteen Year	0.3%	(0.1%)	0.1%	0.1%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
WESTERN NECO PSA
PSA COINCIDENT SUMMER PEAK DEMAND WITH DSM
(MW)

		With Actual History				With Weather Adjusted History					
Year		Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	8	888.742	.	888.742	.	912.767	.	856.708	.	0.000	0.0%
2006	8	957.751	7.8%	957.751	7.8%	974.790	6.8%	915.153	6.8%	0.000	0.0%
2007	8	873.969	(8.7%)	873.969	(8.7%)	955.246	(2.0%)	892.030	(2.5%)	0.000	0.0%
2008	6	871.427	(0.3%)	871.427	(0.3%)	902.731	(5.5%)	835.938	(6.3%)	0.000	0.0%
2009	8	829.540	(4.8%)	829.540	(4.8%)	906.086	0.4%	835.714	(0.0%)	0.000	0.0%
2010	7	869.425	4.8%	869.425	4.8%	938.505	3.6%	864.555	3.5%	0.000	0.0%
Forecast											
2011	8	920.042	5.8%	842.514	(3.1%)	920.042	(2.0%)	842.514	(2.5%)	0.324	0.0%
2012	8	952.746	3.6%	871.640	3.5%	952.746	3.6%	871.640	3.5%	0.328	0.0%
2013	8	992.105	4.1%	907.421	4.1%	992.105	4.1%	907.421	4.1%	0.332	0.0%
2014	8	1,031.668	4.0%	943.405	4.0%	1,031.668	4.0%	943.405	4.0%	0.336	0.0%
2015	8	1,064.046	3.1%	972.206	3.1%	1,064.046	3.1%	972.206	3.1%	0.340	0.0%
2016	8	1,091.133	2.5%	995.714	2.4%	1,091.133	2.5%	995.714	2.4%	0.343	0.0%
2017	8	1,114.704	2.2%	1,015.707	2.0%	1,114.704	2.2%	1,015.707	2.0%	0.345	0.0%
2018	8	1,137.109	2.0%	1,034.533	1.9%	1,137.109	2.0%	1,034.533	1.9%	0.348	0.0%
2019	8	1,158.765	1.9%	1,052.611	1.7%	1,158.765	1.9%	1,052.611	1.7%	0.350	0.0%
2020	8	1,180.870	1.9%	1,071.138	1.8%	1,180.870	1.9%	1,071.138	1.8%	0.352	0.0%
2021	8	1,203.006	1.9%	1,089.696	1.7%	1,203.006	1.9%	1,089.696	1.7%	0.355	0.0%
2022	8	1,225.067	1.8%	1,108.179	1.7%	1,225.067	1.8%	1,108.179	1.7%	0.357	0.0%
2023	8	1,246.958	1.8%	1,126.492	1.7%	1,246.958	1.8%	1,126.492	1.7%	0.359	0.0%
2024	8	1,268.841	1.8%	1,144.797	1.6%	1,268.841	1.8%	1,144.797	1.6%	0.361	0.0%
2025	8	1,290.737	1.7%	1,163.114	1.6%	1,290.737	1.7%	1,163.114	1.6%	0.363	0.0%

Compound Annual Growth

	Actual Extreme	Actual Normal	Weather Adj. Extreme	Weather Adj. Normal
2005-2010 Five Year	(0.4%)	(0.4%)	0.6%	0.2%
2010-2015 Five Year	4.1%	2.3%	2.5%	2.4%
2010-2020 Ten Year	3.1%	2.1%	2.3%	2.2%
2010-2025 Fifteen Year	2.7%	2.0%	2.1%	2.0%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
BLACKSTONE VALLEY PSA
PSA COINCIDENT SUMMER PEAK DEMAND WITH DSM
(MW)

		With Actual History				With Weather Adjusted History					
Year		Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	8	321.643	.	321.643	.	329.835	.	310.720	.	0.000	0.0%
2006	8	339.727	5.6%	339.727	5.6%	340.360	3.2%	321.246	3.4%	0.000	0.0%
2007	8	310.301	(8.7%)	310.301	(8.7%)	328.677	(3.4%)	309.562	(3.6%)	0.000	0.0%
2008	6	322.749	4.0%	322.749	4.0%	300.273	(8.6%)	281.158	(9.2%)	0.000	0.0%
2009	8	287.434	(10.9%)	287.434	(10.9%)	309.279	3.0%	290.165	3.2%	0.000	0.0%
2010	7	270.007	(6.1%)	270.007	(6.1%)	284.437	(8.0%)	265.323	(8.6%)	0.000	0.0%
Forecast											
2011	8	293.177	8.6%	274.062	1.5%	293.177	3.1%	274.062	3.3%	0.103	0.0%
2012	8	294.885	0.6%	275.771	0.6%	294.885	0.6%	275.771	0.6%	0.101	0.0%
2013	8	297.417	0.9%	278.302	0.9%	297.417	0.9%	278.302	0.9%	0.100	0.0%
2014	8	299.974	0.9%	280.859	0.9%	299.974	0.9%	280.859	0.9%	0.098	0.0%
2015	8	301.641	0.6%	282.527	0.6%	301.641	0.6%	282.527	0.6%	0.096	0.0%
2016	8	302.654	0.3%	283.540	0.4%	302.654	0.3%	283.540	0.4%	0.095	0.0%
2017	8	303.232	0.2%	284.117	0.2%	303.232	0.2%	284.117	0.2%	0.094	0.0%
2018	8	303.665	0.1%	284.550	0.2%	303.665	0.1%	284.550	0.2%	0.093	0.0%
2019	8	304.006	0.1%	284.891	0.1%	304.006	0.1%	284.891	0.1%	0.092	0.0%
2020	8	304.402	0.1%	285.287	0.1%	304.402	0.1%	285.287	0.1%	0.091	0.0%
2021	8	304.802	0.1%	285.687	0.1%	304.802	0.1%	285.687	0.1%	0.090	0.0%
2022	8	305.192	0.1%	286.078	0.1%	305.192	0.1%	286.078	0.1%	0.089	0.0%
2023	8	305.562	0.1%	286.447	0.1%	305.562	0.1%	286.447	0.1%	0.088	0.0%
2024	8	305.930	0.1%	286.816	0.1%	305.930	0.1%	286.816	0.1%	0.087	0.0%
2025	8	306.300	0.1%	287.186	0.1%	306.300	0.1%	287.186	0.1%	0.086	0.0%

Compound Annual Growth				
2005-2010 Five Year	(3.4%)	(3.4%)	(2.9%)	(3.1%)
2010-2015 Five Year	2.2%	0.9%	1.2%	1.3%
2010-2020 Ten Year	1.2%	0.6%	0.7%	0.7%
2010-2025 Fifteen Year	0.8%	0.4%	0.5%	0.5%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
NEWPORT PSA
PSA COINCIDENT SUMMER PEAK DEMAND WITH DSM
(MW)

		With Actual History				With Weather Adjusted History					
Year		Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	8	129.500	.	129.500	.	132.653	.	126.038	.	0.000	0.0%
2006	8	144.400	11.5%	144.400	11.5%	147.864	11.5%	140.827	11.7%	0.000	0.0%
2007	8	128.700	(10.9%)	128.700	(10.9%)	140.430	(5.0%)	132.971	(5.6%)	0.000	0.0%
2008	6	126.000	(2.1%)	126.000	(2.1%)	143.543	2.2%	135.661	2.0%	0.000	0.0%
2009	8	130.800	3.8%	130.800	3.8%	138.899	(3.2%)	130.595	(3.7%)	0.000	0.0%
2010	7	143.543	9.7%	143.543	9.7%	129.985	(6.4%)	121.259	(7.1%)	0.000	0.0%
Forecast											
2011	8	131.813	(8.2%)	122.665	(14.5%)	131.813	1.4%	122.665	1.2%	0.045	0.0%
2012	8	135.844	3.1%	126.273	2.9%	135.844	3.1%	126.273	2.9%	0.046	0.0%
2013	8	140.742	3.6%	130.749	3.5%	140.742	3.6%	130.749	3.5%	0.046	0.0%
2014	8	145.666	3.5%	135.251	3.4%	145.666	3.5%	135.251	3.4%	0.046	0.0%
2015	8	149.654	2.7%	138.817	2.6%	149.654	2.7%	138.817	2.6%	0.047	0.0%
2016	8	152.951	2.2%	141.692	2.1%	152.951	2.2%	141.692	2.1%	0.047	0.0%
2017	8	155.791	1.9%	144.109	1.7%	155.791	1.9%	144.109	1.7%	0.047	0.0%
2018	8	158.478	1.7%	146.374	1.6%	158.478	1.7%	146.374	1.6%	0.047	0.0%
2019	8	161.067	1.6%	148.541	1.5%	161.067	1.6%	148.541	1.5%	0.048	0.0%
2020	8	163.715	1.6%	150.767	1.5%	163.715	1.6%	150.767	1.5%	0.048	0.0%
2021	8	166.367	1.6%	152.997	1.5%	166.367	1.6%	152.997	1.5%	0.048	0.0%
2022	8	169.010	1.6%	155.217	1.5%	169.010	1.6%	155.217	1.5%	0.048	0.0%
2023	8	171.630	1.6%	157.415	1.4%	171.630	1.6%	157.415	1.4%	0.048	0.0%
2024	8	174.249	1.5%	159.612	1.4%	174.249	1.5%	159.612	1.4%	0.049	0.0%
2025	8	176.870	1.5%	161.810	1.4%	176.870	1.5%	161.810	1.4%	0.049	0.0%

Compound Annual Growth

2005-2010 Five Year	2.1%	2.1%	(0.4%)	(0.8%)
2010-2015 Five Year	0.8%	(0.7%)	2.9%	2.7%
2010-2020 Ten Year	1.3%	0.5%	2.3%	2.2%
2010-2025 Fifteen Year	1.4%	0.8%	2.1%	1.9%

Appendix H

2011 Power Supply Area Forecast

Narragansett Electric Company

Winter Peak Demands

Energy Portfolio Management
Electric Load Forecasting

Mach 31, 2011

Contents

Company Summaries: Winter Peak Demand at Time of Company Peak

PSA Winter Peak Demand at Time of Company Peak

PSA Coincident Winter Peak Demand

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
WINTER PEAK DEMANDS COINCIDENT WITH COMPANY PEAK
ACTUAL HISTORY AND FORECAST WITH EXTREME WEATHER AND DSM (MW)

Year	Mo	Sum of Narragansett PSAs	Growth Rate	Providence PSA	Growth Rate	Western PSA	Growth Rate	Blackstone PSA	Growth Rate	Newport PSA	Growth Rate
2004	12	1,367.036	(0.1%)	337.114	(2.8%)	680.200	1.4%	235.022	0.8%	114.700	(3.1%)
2005	12	1,301.943	(4.8%)	326.152	(3.3%)	641.371	(5.7%)	229.120	(2.5%)	105.300	(8.2%)
2007	3	1,308.178	0.5%	335.685	2.9%	641.736	0.1%	223.849	(2.3%)	106.908	1.5%
2008	1	1,331.634	1.8%	352.587	5.0%	639.787	(0.3%)	229.273	2.4%	109.987	2.9%
2008	12	1,271.954	(4.5%)	326.262	(7.5%)	623.835	(2.5%)	216.357	(5.6%)	105.500	(4.1%)
2009	12	1,274.319	0.2%	338.415	3.7%	622.117	(0.3%)	208.587	(3.6%)	105.200	(0.3%)
Forecast											
2011	1	1,234.737	(3.1%)	327.619	(3.2%)	598.237	(3.8%)	203.385	(2.5%)	105.496	0.3%
2012	1	1,250.521	1.3%	330.037	0.7%	608.918	1.8%	204.706	0.6%	106.860	1.3%
2013	1	1,275.916	2.0%	333.929	1.2%	626.102	2.8%	206.832	1.0%	109.054	2.1%
2014	1	1,306.739	2.4%	338.651	1.4%	646.959	3.3%	209.412	1.2%	111.716	2.4%
2015	1	1,334.534	2.1%	342.910	1.3%	665.767	2.9%	211.739	1.1%	114.118	2.1%
2016	1	1,350.546	1.2%	345.364	0.7%	676.602	1.6%	213.079	0.6%	115.501	1.2%
2017	1	1,360.213	0.7%	346.845	0.4%	683.144	1.0%	213.889	0.4%	116.336	0.7%
2018	1	1,365.722	0.4%	347.689	0.2%	686.871	0.5%	214.350	0.2%	116.812	0.4%
2019	1	1,370.404	0.3%	348.406	0.2%	690.039	0.5%	214.742	0.2%	117.216	0.3%
2020	1	1,374.531	0.3%	349.039	0.2%	692.832	0.4%	215.087	0.2%	117.573	0.3%
2021	1	1,379.384	0.4%	349.782	0.2%	696.116	0.5%	215.493	0.2%	117.992	0.4%
2022	1	1,384.351	0.4%	350.543	0.2%	699.477	0.5%	215.909	0.2%	118.421	0.4%
2023	1	1,388.637	0.3%	351.200	0.2%	702.377	0.4%	216.268	0.2%	118.791	0.3%
2024	1	1,393.221	0.3%	351.903	0.2%	705.480	0.4%	216.652	0.2%	119.188	0.3%
2025	1	1,397.467	0.3%	352.553	0.2%	708.352	0.4%	217.007	0.2%	119.554	0.3%

Compound Annual Growth	Narragansett	Providence	Western	Blackstone	Newport
2005-2010 Five Year	(1.4%)	0.1%	(1.8%)	(2.4%)	(1.7%)
2010-2015 Five Year	0.9%	0.3%	1.4%	0.3%	1.6%
2010-2020 Ten Year	0.8%	0.3%	1.1%	0.3%	1.1%
2010-2025 Fifteen Year	0.6%	0.3%	0.9%	0.3%	0.9%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
COMPANY WINTER PEAK DEMANDS WITH DSM (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	12	1,367.036	.	1,367.036	.	1,375.818	.	1,326.909	.	0.000	0.0%
2005	12	1,301.943	(4.8%)	1,301.943	(4.8%)	1,291.764	(6.1%)	1,242.854	(6.3%)	0.000	0.0%
2007	3	1,308.178	0.5%	1,308.178	0.5%	1,313.453	1.7%	1,264.544	1.7%	0.000	0.0%
2008	1	1,331.634	1.8%	1,331.634	1.8%	1,380.845	5.1%	1,331.936	5.3%	0.000	0.0%
2008	12	1,271.954	(4.5%)	1,271.954	(4.5%)	1,305.476	(5.5%)	1,256.567	(5.7%)	0.000	0.0%
2009	12	1,274.319	0.2%	1,274.319	0.2%	1,280.710	(1.9%)	1,231.801	(2.0%)	0.000	0.0%
Forecast											
2011	1	1,234.737	(3.1%)	1,185.828	(6.9%)	1,234.737	(3.6%)	1,185.828	(3.7%)	0.000	0.0%
2012	1	1,250.521	1.3%	1,201.612	1.3%	1,250.521	1.3%	1,201.612	1.3%	0.000	0.0%
2013	1	1,275.916	2.0%	1,227.007	2.1%	1,275.916	2.0%	1,227.007	2.1%	0.000	0.0%
2014	1	1,306.739	2.4%	1,257.830	2.5%	1,306.739	2.4%	1,257.830	2.5%	0.000	0.0%
2015	1	1,334.534	2.1%	1,285.625	2.2%	1,334.534	2.1%	1,285.625	2.2%	0.000	0.0%
2016	1	1,350.546	1.2%	1,301.637	1.2%	1,350.546	1.2%	1,301.637	1.2%	0.000	0.0%
2017	1	1,360.213	0.7%	1,311.304	0.7%	1,360.213	0.7%	1,311.304	0.7%	0.000	0.0%
2018	1	1,365.722	0.4%	1,316.813	0.4%	1,365.722	0.4%	1,316.813	0.4%	0.000	0.0%
2019	1	1,370.404	0.3%	1,321.494	0.4%	1,370.404	0.3%	1,321.494	0.4%	0.000	0.0%
2020	1	1,374.531	0.3%	1,325.622	0.3%	1,374.531	0.3%	1,325.622	0.3%	0.000	0.0%
2021	1	1,379.384	0.4%	1,330.474	0.4%	1,379.384	0.4%	1,330.474	0.4%	0.000	0.0%
2022	1	1,384.351	0.4%	1,335.442	0.4%	1,384.351	0.4%	1,335.442	0.4%	0.000	0.0%
2023	1	1,388.637	0.3%	1,339.728	0.3%	1,388.637	0.3%	1,339.728	0.3%	0.000	0.0%
2024	1	1,393.221	0.3%	1,344.312	0.3%	1,393.221	0.3%	1,344.312	0.3%	0.000	0.0%
2025	1	1,397.467	0.3%	1,348.558	0.3%	1,397.467	0.3%	1,348.558	0.3%	0.000	0.0%

Compound Annual Growth				
2005-2010 Five Year	(1.4%)	(1.4%)	(1.4%)	(1.5%)
2010-2015 Five Year	0.9%	0.2%	0.8%	0.9%
2010-2020 Ten Year	0.8%	0.4%	0.7%	0.7%
2010-2025 Fifteen Year	0.6%	0.4%	0.6%	0.6%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
PROVIDENCE PSA
WINTER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	12	337.114	.	337.114	.	348.810	.	335.222	.	0.000	0.0%
2005	12	326.152	(3.3%)	326.152	(3.3%)	325.986	(6.5%)	312.398	(6.8%)	0.000	0.0%
2007	3	335.685	2.9%	335.685	2.9%	344.397	5.6%	330.810	5.9%	0.000	0.0%
2008	1	352.587	5.0%	352.587	5.0%	362.390	5.2%	348.802	5.4%	0.000	0.0%
2008	12	326.262	(7.5%)	326.262	(7.5%)	341.008	(5.9%)	327.421	(6.1%)	0.000	0.0%
2009	12	338.415	3.7%	338.415	3.7%	335.235	(1.7%)	321.647	(1.8%)	0.000	0.0%
Forecast											
2011	1	327.619	(3.2%)	314.031	(7.2%)	327.619	(2.3%)	314.031	(2.4%)	0.000	0.0%
2012	1	330.037	0.7%	316.450	0.8%	330.037	0.7%	316.450	0.8%	0.000	0.0%
2013	1	333.929	1.2%	320.341	1.2%	333.929	1.2%	320.341	1.2%	0.000	0.0%
2014	1	338.651	1.4%	325.064	1.5%	338.651	1.4%	325.064	1.5%	0.000	0.0%
2015	1	342.910	1.3%	329.323	1.3%	342.910	1.3%	329.323	1.3%	0.000	0.0%
2016	1	345.364	0.7%	331.776	0.7%	345.364	0.7%	331.776	0.7%	0.000	0.0%
2017	1	346.845	0.4%	333.257	0.4%	346.845	0.4%	333.257	0.4%	0.000	0.0%
2018	1	347.689	0.2%	334.101	0.3%	347.689	0.2%	334.101	0.3%	0.000	0.0%
2019	1	348.406	0.2%	334.819	0.2%	348.406	0.2%	334.819	0.2%	0.000	0.0%
2020	1	349.039	0.2%	335.451	0.2%	349.039	0.2%	335.451	0.2%	0.000	0.0%
2021	1	349.782	0.2%	336.195	0.2%	349.782	0.2%	336.195	0.2%	0.000	0.0%
2022	1	350.543	0.2%	336.956	0.2%	350.543	0.2%	336.956	0.2%	0.000	0.0%
2023	1	351.200	0.2%	337.612	0.2%	351.200	0.2%	337.612	0.2%	0.000	0.0%
2024	1	351.903	0.2%	338.315	0.2%	351.903	0.2%	338.315	0.2%	0.000	0.0%
2025	1	352.553	0.2%	338.965	0.2%	352.553	0.2%	338.965	0.2%	0.000	0.0%

Compound Annual Growth

2005-2010 Five Year	0.1%	0.1%	(0.8%)	(0.8%)
2010-2015 Five Year	0.3%	(0.5%)	0.5%	0.5%
2010-2020 Ten Year	0.3%	(0.1%)	0.4%	0.4%
2010-2025 Fifteen Year	0.3%	0.0%	0.3%	0.4%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
WESTERN NECO PSA
WINTER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	12	680.200	.	680.200	.	672.142	.	650.772	.	0.000	0.0%
2005	12	641.371	(5.7%)	641.371	(5.7%)	628.736	(6.5%)	607.367	(6.7%)	0.000	0.0%
2007	3	641.736	0.1%	641.736	0.1%	640.805	1.9%	619.436	2.0%	0.000	0.0%
2008	1	639.787	(0.3%)	639.787	(0.3%)	663.629	3.6%	642.260	3.7%	0.000	0.0%
2008	12	623.835	(2.5%)	623.835	(2.5%)	645.467	(2.7%)	624.098	(2.8%)	0.000	0.0%
2009	12	622.117	(0.3%)	622.117	(0.3%)	620.838	(3.8%)	599.469	(3.9%)	0.000	0.0%
Forecast											
2011	1	598.237	(3.8%)	576.867	(7.3%)	598.237	(3.6%)	576.867	(3.8%)	0.000	0.0%
2012	1	608.918	1.8%	587.548	1.9%	608.918	1.8%	587.548	1.9%	0.000	0.0%
2013	1	626.102	2.8%	604.732	2.9%	626.102	2.8%	604.732	2.9%	0.000	0.0%
2014	1	646.959	3.3%	625.590	3.4%	646.959	3.3%	625.590	3.4%	0.000	0.0%
2015	1	665.767	2.9%	644.398	3.0%	665.767	2.9%	644.398	3.0%	0.000	0.0%
2016	1	676.602	1.6%	655.233	1.7%	676.602	1.6%	655.233	1.7%	0.000	0.0%
2017	1	683.144	1.0%	661.774	1.0%	683.144	1.0%	661.774	1.0%	0.000	0.0%
2018	1	686.871	0.5%	665.502	0.6%	686.871	0.5%	665.502	0.6%	0.000	0.0%
2019	1	690.039	0.5%	668.670	0.5%	690.039	0.5%	668.670	0.5%	0.000	0.0%
2020	1	692.832	0.4%	671.463	0.4%	692.832	0.4%	671.463	0.4%	0.000	0.0%
2021	1	696.116	0.5%	674.746	0.5%	696.116	0.5%	674.746	0.5%	0.000	0.0%
2022	1	699.477	0.5%	678.108	0.5%	699.477	0.5%	678.108	0.5%	0.000	0.0%
2023	1	702.377	0.4%	681.008	0.4%	702.377	0.4%	681.008	0.4%	0.000	0.0%
2024	1	705.480	0.4%	684.110	0.5%	705.480	0.4%	684.110	0.5%	0.000	0.0%
2025	1	708.352	0.4%	686.983	0.4%	708.352	0.4%	686.983	0.4%	0.000	0.0%

Compound Annual Growth

2005-2010 Five Year	(1.8%)	(1.8%)	(1.6%)	(1.6%)
2010-2015 Five Year	1.4%	0.7%	1.4%	1.5%
2010-2020 Ten Year	1.1%	0.8%	1.1%	1.1%
2010-2025 Fifteen Year	0.9%	0.7%	0.9%	0.9%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
BLACKSTONE VALLEY PSA
WINTER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	12	235.022	.	235.022	.	235.889	.	227.529	.	0.000	0.0%
2005	12	229.120	(2.5%)	229.120	(2.5%)	229.384	(2.8%)	221.025	(2.9%)	0.000	0.0%
2007	3	223.849	(2.3%)	223.849	(2.3%)	218.116	(4.9%)	209.757	(5.1%)	0.000	0.0%
2008	1	229.273	2.4%	229.273	2.4%	238.599	9.4%	230.240	9.8%	0.000	0.0%
2008	12	216.357	(5.6%)	216.357	(5.6%)	219.044	(8.2%)	210.685	(8.5%)	0.000	0.0%
2009	12	208.587	(3.6%)	208.587	(3.6%)	218.072	(0.4%)	209.712	(0.5%)	0.000	0.0%
Forecast											
2011	1	203.385	(2.5%)	195.026	(6.5%)	203.385	(6.7%)	195.026	(7.0%)	0.000	0.0%
2012	1	204.706	0.6%	196.347	0.7%	204.706	0.6%	196.347	0.7%	0.000	0.0%
2013	1	206.832	1.0%	198.473	1.1%	206.832	1.0%	198.473	1.1%	0.000	0.0%
2014	1	209.412	1.2%	201.053	1.3%	209.412	1.2%	201.053	1.3%	0.000	0.0%
2015	1	211.739	1.1%	203.380	1.2%	211.739	1.1%	203.380	1.2%	0.000	0.0%
2016	1	213.079	0.6%	204.720	0.7%	213.079	0.6%	204.720	0.7%	0.000	0.0%
2017	1	213.889	0.4%	205.529	0.4%	213.889	0.4%	205.529	0.4%	0.000	0.0%
2018	1	214.350	0.2%	205.990	0.2%	214.350	0.2%	205.990	0.2%	0.000	0.0%
2019	1	214.742	0.2%	206.382	0.2%	214.742	0.2%	206.382	0.2%	0.000	0.0%
2020	1	215.087	0.2%	206.728	0.2%	215.087	0.2%	206.728	0.2%	0.000	0.0%
2021	1	215.493	0.2%	207.134	0.2%	215.493	0.2%	207.134	0.2%	0.000	0.0%
2022	1	215.909	0.2%	207.550	0.2%	215.909	0.2%	207.550	0.2%	0.000	0.0%
2023	1	216.268	0.2%	207.909	0.2%	216.268	0.2%	207.909	0.2%	0.000	0.0%
2024	1	216.652	0.2%	208.292	0.2%	216.652	0.2%	208.292	0.2%	0.000	0.0%
2025	1	217.007	0.2%	208.648	0.2%	217.007	0.2%	208.648	0.2%	0.000	0.0%

Compound Annual Growth	With Actual History: Extreme Weather	With Actual History: Normal Weather	With Weather Adjusted History: Extreme Weather	With Weather Adjusted History: Normal Weather
2005-2010 Five Year	(2.4%)	(2.4%)	(1.6%)	(1.6%)
2010-2015 Five Year	0.3%	(0.5%)	(0.6%)	(0.6%)
2010-2020 Ten Year	0.3%	(0.1%)	(0.1%)	(0.1%)
2010-2025 Fifteen Year	0.3%	0.0%	(0.0%)	(0.0%)

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
NEWPORT PSA
WINTER PEAK DEMAND WITH DSM AT TIME OF COMPANY PEAK (MW)

		With Actual History				With Weather Adjusted History					
Year	Mo	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2004	12	114.700	.	114.700	.	118.978	.	113.385	.	0.000	0.0%
2005	12	105.300	(8.2%)	105.300	(8.2%)	107.657	(9.5%)	102.064	(10.0%)	0.000	0.0%
2007	3	106.908	1.5%	106.908	1.5%	110.134	2.3%	104.541	2.4%	0.000	0.0%
2008	1	109.987	2.9%	109.987	2.9%	116.227	5.5%	110.634	5.8%	0.000	0.0%
2008	12	105.500	(4.1%)	105.500	(4.1%)	99.956	(14.0%)	94.363	(14.7%)	0.000	0.0%
2009	12	105.200	(0.3%)	105.200	(0.3%)	106.565	6.6%	100.972	7.0%	0.000	0.0%
Forecast											
2011	1	105.496	0.3%	99.903	(5.0%)	105.496	(1.0%)	99.903	(1.1%)	0.000	0.0%
2012	1	106.860	1.3%	101.267	1.4%	106.860	1.3%	101.267	1.4%	0.000	0.0%
2013	1	109.054	2.1%	103.461	2.2%	109.054	2.1%	103.461	2.2%	0.000	0.0%
2014	1	111.716	2.4%	106.124	2.6%	111.716	2.4%	106.124	2.6%	0.000	0.0%
2015	1	114.118	2.1%	108.525	2.3%	114.118	2.1%	108.525	2.3%	0.000	0.0%
2016	1	115.501	1.2%	109.908	1.3%	115.501	1.2%	109.908	1.3%	0.000	0.0%
2017	1	116.336	0.7%	110.743	0.8%	116.336	0.7%	110.743	0.8%	0.000	0.0%
2018	1	116.812	0.4%	111.219	0.4%	116.812	0.4%	111.219	0.4%	0.000	0.0%
2019	1	117.216	0.3%	111.623	0.4%	117.216	0.3%	111.623	0.4%	0.000	0.0%
2020	1	117.573	0.3%	111.980	0.3%	117.573	0.3%	111.980	0.3%	0.000	0.0%
2021	1	117.992	0.4%	112.399	0.4%	117.992	0.4%	112.399	0.4%	0.000	0.0%
2022	1	118.421	0.4%	112.828	0.4%	118.421	0.4%	112.828	0.4%	0.000	0.0%
2023	1	118.791	0.3%	113.199	0.3%	118.791	0.3%	113.199	0.3%	0.000	0.0%
2024	1	119.188	0.3%	113.595	0.3%	119.188	0.3%	113.595	0.3%	0.000	0.0%
2025	1	119.554	0.3%	113.961	0.3%	119.554	0.3%	113.961	0.3%	0.000	0.0%

Compound Annual Growth

2005-2010 Five Year	(1.7%)	(1.7%)	(2.2%)	(2.3%)
2010-2015 Five Year	1.6%	0.6%	1.4%	1.5%
2010-2020 Ten Year	1.1%	0.6%	1.0%	1.0%
2010-2025 Fifteen Year	0.9%	0.5%	0.8%	0.8%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
PROVIDENCE PSA
PSA COINCIDENT WINTER PEAK DEMAND WITH DSM (MW)

	With Actual History				With Weather Adjusted History					
Year	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	341.218	.	341.218	.	372.068	.	357.575	.	0.000	0.0%
2006	328.155	(3.8%)	328.155	(3.8%)	347.723	(6.5%)	333.229	(6.8%)	0.000	0.0%
2007	347.647	5.9%	347.647	5.9%	367.361	5.6%	352.868	5.9%	0.000	0.0%
2008	353.997	1.8%	353.997	1.8%	386.554	5.2%	372.060	5.4%	0.000	0.0%
2009	329.580	(6.9%)	329.580	(6.9%)	363.747	(5.9%)	349.253	(6.1%)	0.000	0.0%
2010	338.745	2.8%	338.745	2.8%	357.589	(1.7%)	343.095	(1.8%)	0.000	0.0%
Forecast										
2011	349.464	3.2%	334.971	(1.1%)	349.464	(2.3%)	334.971	(2.4%)	0.000	0.0%
2012	352.044	0.7%	337.551	0.8%	352.044	0.7%	337.551	0.8%	0.000	0.0%
2013	356.195	1.2%	341.701	1.2%	356.195	1.2%	341.701	1.2%	0.000	0.0%
2014	361.233	1.4%	346.739	1.5%	361.233	1.4%	346.739	1.5%	0.000	0.0%
2015	365.775	1.3%	351.282	1.3%	365.775	1.3%	351.282	1.3%	0.000	0.0%
2016	368.392	0.7%	353.899	0.7%	368.392	0.7%	353.899	0.7%	0.000	0.0%
2017	369.972	0.4%	355.479	0.4%	369.972	0.4%	355.479	0.4%	0.000	0.0%
2018	370.873	0.2%	356.379	0.3%	370.873	0.2%	356.379	0.3%	0.000	0.0%
2019	371.638	0.2%	357.144	0.2%	371.638	0.2%	357.144	0.2%	0.000	0.0%
2020	372.313	0.2%	357.819	0.2%	372.313	0.2%	357.819	0.2%	0.000	0.0%
2021	373.106	0.2%	358.612	0.2%	373.106	0.2%	358.612	0.2%	0.000	0.0%
2022	373.918	0.2%	359.424	0.2%	373.918	0.2%	359.424	0.2%	0.000	0.0%
2023	374.618	0.2%	360.124	0.2%	374.618	0.2%	360.124	0.2%	0.000	0.0%
2024	375.367	0.2%	360.874	0.2%	375.367	0.2%	360.874	0.2%	0.000	0.0%
2025	376.061	0.2%	361.567	0.2%	376.061	0.2%	361.567	0.2%	0.000	0.0%

Compound Annual Growth

2005-2010 Five Year	(0.1%)	(0.1%)	(0.8%)	(0.8%)
2010-2015 Five Year	1.5%	0.7%	0.5%	0.5%
2010-2020 Ten Year	0.9%	0.5%	0.4%	0.4%
2010-2025 Fifteen Year	0.7%	0.4%	0.3%	0.4%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
WESTERN NECO PSA
PSA COINCIDENT WINTER PEAK DEMAND WITH DSM (MW)

	With Actual History				With Weather Adjusted History					
Year	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	680.200	.	680.200	.	672.142	.	650.772	.	0.000	0.0%
2006	641.413	(5.7%)	641.413	(5.7%)	628.736	(6.5%)	607.367	(6.7%)	0.000	0.0%
2007	642.594	0.2%	642.594	0.2%	640.805	1.9%	619.436	2.0%	0.000	0.0%
2008	639.787	(0.4%)	639.787	(0.4%)	663.629	3.6%	642.260	3.7%	0.000	0.0%
2009	623.835	(2.5%)	624.098	(2.5%)	645.467	(2.7%)	624.098	(2.8%)	0.000	0.0%
2010	622.117	(0.3%)	599.469	(3.9%)	620.838	(3.8%)	599.469	(3.9%)	0.000	0.0%
Forecast										
2011	598.237	(3.8%)	576.867	(3.8%)	598.237	(3.6%)	576.867	(3.8%)	0.000	0.0%
2012	608.918	1.8%	587.548	1.9%	608.918	1.8%	587.548	1.9%	0.000	0.0%
2013	626.102	2.8%	604.732	2.9%	626.102	2.8%	604.732	2.9%	0.000	0.0%
2014	646.959	3.3%	625.590	3.4%	646.959	3.3%	625.590	3.4%	0.000	0.0%
2015	665.767	2.9%	644.398	3.0%	665.767	2.9%	644.398	3.0%	0.000	0.0%
2016	676.602	1.6%	655.233	1.7%	676.602	1.6%	655.233	1.7%	0.000	0.0%
2017	683.144	1.0%	661.774	1.0%	683.144	1.0%	661.774	1.0%	0.000	0.0%
2018	686.871	0.5%	665.502	0.6%	686.871	0.5%	665.502	0.6%	0.000	0.0%
2019	690.039	0.5%	668.670	0.5%	690.039	0.5%	668.670	0.5%	0.000	0.0%
2020	692.832	0.4%	671.463	0.4%	692.832	0.4%	671.463	0.4%	0.000	0.0%
2021	696.116	0.5%	674.746	0.5%	696.116	0.5%	674.746	0.5%	0.000	0.0%
2022	699.477	0.5%	678.108	0.5%	699.477	0.5%	678.108	0.5%	0.000	0.0%
2023	702.377	0.4%	681.008	0.4%	702.377	0.4%	681.008	0.4%	0.000	0.0%
2024	705.480	0.4%	684.110	0.5%	705.480	0.4%	684.110	0.5%	0.000	0.0%
2025	708.352	0.4%	686.983	0.4%	708.352	0.4%	686.983	0.4%	0.000	0.0%

Compound Annual Growth

2005-2010 Five Year	(1.8%)	(2.5%)	(1.6%)	(1.6%)
2010-2015 Five Year	1.4%	1.5%	1.4%	1.5%
2010-2020 Ten Year	1.1%	1.1%	1.1%	1.1%
2010-2025 Fifteen Year	0.9%	0.9%	0.9%	0.9%

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
BLACKSTONE VALLEY PSA
PSA COINCIDENT WINTER PEAK DEMAND WITH DSM (MW)

	With Actual History				With Weather Adjusted History					
Year	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	235.031	.	235.031	.	235.944	.	227.583	.	0.000	0.0%
2006	231.396	(1.5%)	231.396	(1.5%)	229.438	(2.8%)	221.077	(2.9%)	0.000	0.0%
2007	223.696	(3.3%)	209.806	(9.3%)	218.168	(4.9%)	209.806	(5.1%)	0.000	0.0%
2008	229.273	2.5%	230.294	9.8%	238.656	9.4%	230.294	9.8%	0.000	0.0%
2009	216.839	(5.4%)	210.735	(8.5%)	219.096	(8.2%)	210.735	(8.5%)	0.000	0.0%
2010	213.649	(1.5%)	209.762	(0.5%)	218.123	(0.4%)	209.762	(0.5%)	0.000	0.0%
Forecast										
2011	203.433	(4.8%)	195.072	(7.0%)	203.433	(6.7%)	195.072	(7.0%)	0.000	0.0%
2012	204.754	0.6%	196.393	0.7%	204.754	0.6%	196.393	0.7%	0.000	0.0%
2013	206.881	1.0%	198.519	1.1%	206.881	1.0%	198.519	1.1%	0.000	0.0%
2014	209.462	1.2%	201.100	1.3%	209.462	1.2%	201.100	1.3%	0.000	0.0%
2015	211.789	1.1%	203.428	1.2%	211.789	1.1%	203.428	1.2%	0.000	0.0%
2016	213.129	0.6%	204.768	0.7%	213.129	0.6%	204.768	0.7%	0.000	0.0%
2017	213.939	0.4%	205.578	0.4%	213.939	0.4%	205.578	0.4%	0.000	0.0%
2018	214.400	0.2%	206.039	0.2%	214.400	0.2%	206.039	0.2%	0.000	0.0%
2019	214.792	0.2%	206.431	0.2%	214.792	0.2%	206.431	0.2%	0.000	0.0%
2020	215.138	0.2%	206.776	0.2%	215.138	0.2%	206.776	0.2%	0.000	0.0%
2021	215.544	0.2%	207.183	0.2%	215.544	0.2%	207.183	0.2%	0.000	0.0%
2022	215.960	0.2%	207.599	0.2%	215.960	0.2%	207.599	0.2%	0.000	0.0%
2023	216.319	0.2%	207.958	0.2%	216.319	0.2%	207.958	0.2%	0.000	0.0%
2024	216.703	0.2%	208.341	0.2%	216.703	0.2%	208.341	0.2%	0.000	0.0%
2025	217.058	0.2%	208.697	0.2%	217.058	0.2%	208.697	0.2%	0.000	0.0%

Compound Annual Growth

Compound Annual Growth	Actual Extreme	Actual Normal	Weather Adjusted Extreme	Weather Adjusted Normal
2005-2010 Five Year	(1.9%)	(2.2%)	(1.6%)	(1.6%)
2010-2015 Five Year	(0.2%)	(0.6%)	(0.6%)	(0.6%)
2010-2020 Ten Year	0.1%	(0.1%)	(0.1%)	(0.1%)
2010-2025 Fifteen Year	0.1%	(0.0%)	(0.0%)	(0.0%)

PSA FORECAST 2011
NARRAGANSETT ELECTRIC COMPANY
NEWPORT PSA
PSA COINCIDENT WINTER PEAK DEMAND WITH DSM (MW)

	With Actual History				With Weather Adjusted History					
Year	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Extreme Weather Scenario	Growth Rate	Normal Weather Scenario	Growth Rate	Incremental DSM	% of Load
2005	114.700	.	114.700	.	118.978	.	113.385	.	0.000	0.0%
2006	105.600	(7.9%)	105.600	(7.9%)	107.657	(9.5%)	102.064	(10.0%)	0.000	0.0%
2007	105.697	0.1%	105.697	0.1%	110.134	2.3%	104.541	2.4%	0.000	0.0%
2008	109.987	4.1%	109.987	4.1%	116.227	5.5%	110.634	5.8%	0.000	0.0%
2009	106.300	(3.4%)	94.363	(14.2%)	99.956	(14.0%)	94.363	(14.7%)	0.000	0.0%
2010	105.200	(1.0%)	100.972	7.0%	106.565	6.6%	100.972	7.0%	0.000	0.0%
Forecast										
2011	105.496	0.3%	99.903	(1.1%)	105.496	(1.0%)	99.903	(1.1%)	0.000	0.0%
2012	106.860	1.3%	101.267	1.4%	106.860	1.3%	101.267	1.4%	0.000	0.0%
2013	109.054	2.1%	103.461	2.2%	109.054	2.1%	103.461	2.2%	0.000	0.0%
2014	111.716	2.4%	106.124	2.6%	111.716	2.4%	106.124	2.6%	0.000	0.0%
2015	114.118	2.1%	108.525	2.3%	114.118	2.1%	108.525	2.3%	0.000	0.0%
2016	115.501	1.2%	109.908	1.3%	115.501	1.2%	109.908	1.3%	0.000	0.0%
2017	116.336	0.7%	110.743	0.8%	116.336	0.7%	110.743	0.8%	0.000	0.0%
2018	116.812	0.4%	111.219	0.4%	116.812	0.4%	111.219	0.4%	0.000	0.0%
2019	117.216	0.3%	111.623	0.4%	117.216	0.3%	111.623	0.4%	0.000	0.0%
2020	117.573	0.3%	111.980	0.3%	117.573	0.3%	111.980	0.3%	0.000	0.0%
2021	117.992	0.4%	112.399	0.4%	117.992	0.4%	112.399	0.4%	0.000	0.0%
2022	118.421	0.4%	112.828	0.4%	118.421	0.4%	112.828	0.4%	0.000	0.0%
2023	118.791	0.3%	113.199	0.3%	118.791	0.3%	113.199	0.3%	0.000	0.0%
2024	119.188	0.3%	113.595	0.3%	119.188	0.3%	113.595	0.3%	0.000	0.0%
2025	119.554	0.3%	113.961	0.3%	119.554	0.3%	113.961	0.3%	0.000	0.0%

Compound Annual Growth

2005-2010 Five Year	(1.7%)	(2.5%)	(2.2%)	(2.3%)
2010-2015 Five Year	1.6%	1.5%	1.4%	1.5%
2010-2020 Ten Year	1.1%	1.0%	1.0%	1.0%
2010-2025 Fifteen Year	0.9%	0.8%	0.8%	0.8%

Appendix I

2011 Power Supply Area Forecast

Regression Results

Energy Portfolio Management
Electric Load Forecasting

March 31, 2011

Appendix I

Regression Results

Contents

2011 PSA Forecast - Central (Mass)
Gardner Model

The AUTOREG Procedure

Dependent Variable Gardner_CP
Gardner Coincident Peak

Ordinary Least Squares Estimates

SSE	1808.92609	DFE	179
MSE	10.10573	Root MSE	3.17895
SBC	1034.4709	AIC	995.443623
Regress R-Square	0.7214	Total R-Square	0.7214
Durbin-Watson	1.3998		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-21.8671	8.2319	-2.66	0.0086	
MaxCDD	1	0.3689	0.0390	9.46	<.0001	MaxTemp-65
CumMinHDD	1	0.3712	0.0222	16.72	<.0001	50-CumMinTemp
Econ_WO_I	1	54.6129	7.6407	7.15	<.0001	Worcester Empl/HH
Mar2002	1	-10.5578	3.2013	-3.30	0.0012	Mar2002
May2003	1	-12.7654	3.2005	-3.99	<.0001	May2003
May2007	1	-9.4756	3.2181	-2.94	0.0037	May2007
d2008m2on	1	-3.3892	0.6604	-5.13	<.0001	Feb2008on
dsum10on	1	4.6739	1.4823	3.15	0.0019	Summer10 on
d2006m4	1	-8.1975	3.2133	-2.55	0.0116	d2006m4
fall06	1	-6.0441	1.9076	-3.17	0.0018	fall06
fall07	1	-6.5423	2.2937	-2.85	0.0049	fall07

Estimates of Autocorrelations

```
Lag  Covariance  Correlation  -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

  0      9.4708     1.000000  |                    |********************|
  1      2.7714     0.292627  |                    |******              |
```

Preliminary MSE 8.6598

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.292627	0.071672	-4.08

Yule-Walker Estimates

SSE	1639.86058	DFE	178
MSE	9.21270	Root MSE	3.03524
SBC	1021.15353	AIC	978.873979
Regress R-Square	0.6904	Total R-Square	0.7475
Durbin-Watson	1.9253		

2011 PSA Forecast - Central (Mass)
Gardner Model

The AUTOREG Procedure

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-21.1028	10.9152	-1.93	0.0548	
MaxCDD	1	0.3679	0.0392	9.38	<.0001	MaxTemp-65
CumMinHDD	1	0.3748	0.0231	16.23	<.0001	50-CumMinTemp
Econ_WO_I	1	53.8421	10.1029	5.33	<.0001	Worcester Empl/HH
Mar2002	1	-8.8563	2.9339	-3.02	0.0029	Mar2002
May2003	1	-12.2973	2.9283	-4.20	<.0001	May2003
May2007	1	-8.9941	2.9395	-3.06	0.0026	May2007
d2008m2on	1	-3.2396	0.8590	-3.77	0.0002	Feb2008on
dsum10on	1	4.3515	1.7766	2.45	0.0153	Summer10 on
d2006m4	1	-5.8277	2.9369	-1.98	0.0488	d2006m4
fall06	1	-6.8718	2.1706	-3.17	0.0018	fall06
fall07	1	-6.4976	2.4448	-2.66	0.0086	fall07

2011 PSA Forecast - Central (Mass)
Leominster Model

The AUTOREG Procedure

Dependent Variable Leominster_CP
Leominster Coincident Peak

Ordinary Least Squares Estimates

SSE	10269.2789	DFE	176
MSE	58.34818	Root MSE	7.63860
SBC	1381.8846	AIC	1333.1005
Regress R-Square	0.8212	Total R-Square	0.8212
Durbin-Watson	1.5027		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	37.4427	20.2373	1.85	0.0660	
MaxCDD	1	1.4528	0.1034	14.05	<.0001	MaxTemp-65
CumMinHDD	1	0.6100	0.0556	10.98	<.0001	50-CumMinTemp
Econ_WO_I	1	93.3111	18.7367	4.98	<.0001	Worcester Empl/HH
d2004m10	1	-17.3386	7.7817	-2.23	0.0271	d2004m10
d2005m4	1	-15.6410	7.9235	-1.97	0.0499	d2005m4
d200607m9	1	-13.3612	5.5781	-2.40	0.0177	d200607m9
Apr	1	-9.7422	2.1342	-4.56	<.0001	Apr
May	1	-13.4311	2.2351	-6.01	<.0001	May
Oct2001	1	-20.1636	7.7420	-2.60	0.0100	Oct2001
Nov2002	1	-25.4757	7.7068	-3.31	0.0011	Nov2002
Dec2002	1	-19.1823	7.7150	-2.49	0.0138	Dec2002
May2003	1	-19.7319	7.9014	-2.50	0.0134	May2003
Summer2002on	1	15.7976	2.0710	7.63	<.0001	Summer2002on
d2007m10on	1	-14.9059	1.4207	-10.49	<.0001	Oct2007on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	53.7659	1.000000	| |********************|
1	13.3133	0.247616	| |***** |

Preliminary MSE 50.4693

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.247616	0.073239	-3.38

2011 PSA Forecast - Central (Mass)
Leominster Model

The AUTOREG Procedure

Yule-Walker Estimates

SSE	9594.86479	DFE	175
MSE	54.82780	Root MSE	7.40458
SBC	1374.28527	AIC	1322.24889
Regress R-Square	0.8006	Total R-Square	0.8330
Durbin-Watson	2.0077		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	38.2181	25.5760	1.49	0.1369	
MaxCDD	1	1.4618	0.1030	14.19	<.0001	MaxTemp-65
CumMinHDD	1	0.6315	0.0581	10.88	<.0001	50-CumMinTemp
Econ_WO_I	1	92.0584	23.6692	3.89	0.0001	Worcester Empl/HH
d2004m10	1	-14.1511	7.2808	-1.94	0.0535	d2004m10
d2005m4	1	-16.0550	7.4405	-2.16	0.0323	d2005m4
d200607m9	1	-10.2201	5.2378	-1.95	0.0526	d200607m9
Apr	1	-8.9333	2.0618	-4.33	<.0001	Apr
May	1	-12.8193	2.1790	-5.88	<.0001	May
Oct2001	1	-19.7721	7.2410	-2.73	0.0070	Oct2001
Nov2002	1	-24.3010	7.4534	-3.26	0.0013	Nov2002
Dec2002	1	-20.3860	7.4471	-2.74	0.0068	Dec2002
May2003	1	-20.2305	7.4374	-2.72	0.0072	May2003
Summer2002on	1	16.0097	2.2170	7.22	<.0001	Summer2002on
d2007m10on	1	-15.0240	1.8054	-8.32	<.0001	Oct2007on

2011 PSA Forecast - Central (Mass)
Webster Model

The AUTOREG Procedure

Dependent Variable Webster_CP
Webster Coincident Peak

Ordinary Least Squares Estimates

SSE	13976.1423	DFE	182
MSE	76.79199	Root MSE	8.76310
SBC	1409.2362	AIC	1379.96574
Regress R-Square	0.8385	Total R-Square	0.8385
Durbin-Watson	1.2925		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-85.8642	23.0983	-3.72	0.0003	
MaxCDDTrend	1	0.0821	0.007943	10.33	<.0001	(MaxTemp-65)*Trend
MaxHDD	1	0.4395	0.1634	2.69	0.0078	50-MaxTemp
CumMinHDD	1	0.6209	0.1537	4.04	<.0001	50-CumMinTemp
Econ_WO_I	1	193.4741	21.6368	8.94	<.0001	Worcester Empl/HH
dsum10on	1	11.0830	4.1437	2.67	0.0082	Summer10 on
Apr	1	-12.7257	2.3397	-5.44	<.0001	Apr
May	1	-15.1482	2.5032	-6.05	<.0001	May
Summer2002on	1	16.3334	2.5731	6.35	<.0001	Summer2002on

Estimates of Autocorrelations

```
Lag    Covariance    Correlation    -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

  0       73.1735       1.000000    |                    |********************|
  1       24.6183       0.336437    |                    |*******             |
```

Preliminary MSE 64.8910

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.336437	0.069996	-4.81

Yule-Walker Estimates

SSE	12241.6584	DFE	181
MSE	67.63347	Root MSE	8.22396
SBC	1389.40699	AIC	1356.88426
Regress R-Square	0.8050	Total R-Square	0.8585
Durbin-Watson	1.8817		

2011 PSA Forecast - Central (Mass)
Webster Model

The AUTOREG Procedure

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-82.3077	31.5830	-2.61	0.0099	
MaxCDDTrend	1	0.0858	0.007477	11.47	<.0001	(MaxTemp-65)*Trend
MaxHDD	1	0.3415	0.1422	2.40	0.0173	50-MaxTemp
CumMinHDD	1	0.7522	0.1387	5.42	<.0001	50-CumMinTemp
Econ_WO_I	1	188.8465	29.3476	6.43	<.0001	Worcester Empl/HH
dsum10on	1	10.2171	4.9167	2.08	0.0391	Summer10 on
Apr	1	-10.9732	2.1839	-5.02	<.0001	Apr
May	1	-14.1657	2.3765	-5.96	<.0001	May
Summer2002on	1	16.5668	2.5814	6.42	<.0001	Summer2002on

2011 PSA Forecast - Central (Mass)
Worcester Model

The AUTOREG Procedure

Dependent Variable Worcester_CP
Worcester Coincident Peak

Ordinary Least Squares Estimates

SSE	45959.0021	DFE	169
MSE	271.94676	Root MSE	16.49081
SBC	1552.96719	AIC	1521.09333
Regress R-Square	0.7588	Total R-Square	0.7588
Durbin-Watson	0.8968		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	9.0161	55.7343	0.16	0.8717	
MaxCDDTrend	1	0.1704	0.0145	11.72	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	1.0313	0.1078	9.57	<.0001	50-CumMinTemp
Econ_WO_I	1	206.9123	51.5751	4.01	<.0001	Worcester Empl/HH
d2010m4	1	-66.3161	17.0571	-3.89	0.0001	d2010m4
d1996m4	1	-113.2392	16.9036	-6.70	<.0001	d1996m4
d2000m6	1	36.7334	16.6445	2.21	0.0287	d2000m6
d2004m5	1	-38.9365	16.7629	-2.32	0.0214	d2004m5
Summer2002on	1	26.5014	4.6819	5.66	<.0001	Summer2002on
d2007on	1	-15.9841	3.1290	-5.11	<.0001	d2007on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	256.8	1.000000	| |********************|
1	139.4	0.543037	| |*********** |

Preliminary MSE 181.0

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.543037	0.064785	-8.38

Yule-Walker Estimates

SSE	31267.4655	DFE	168
MSE	186.11587	Root MSE	13.64243
SBC	1489.81668	AIC	1454.75544
Regress R-Square	0.7777	Total R-Square	0.8359
Durbin-Watson	1.7739		

2011 PSA Forecast - Central (Mass)
Worcester Model

The AUTOREG Procedure

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	37.1065	94.6698	0.39	0.6956	
MaxCDDTrend	1	0.1761	0.0119	14.75	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	1.1799	0.1056	11.17	<.0001	50-CumMinTemp
Econ_WO_I	1	177.6130	87.2282	2.04	0.0433	Worcester Empl/HH
d2010m4	1	-68.8392	12.1096	-5.68	<.0001	d2010m4
d1996m4	1	-113.7838	12.0481	-9.44	<.0001	d1996m4
d2000m6	1	36.8042	12.0045	3.07	0.0025	d2000m6
d2004m5	1	-31.1489	12.2632	-2.54	0.0120	d2004m5
Summer2002on	1	32.6288	3.9397	8.28	<.0001	Summer2002on
d2007on	1	-15.8776	5.0889	-3.12	0.0021	d2007on

2011 PSA Forecast - Western (Mass)
ADAMS MODEL

The AUTOREG Procedure

Dependent Variable Adams_CP
Adams Coincident Peak

Ordinary Least Squares Estimates

SSE	1265.93053	DFE	178
MSE	7.11197	Root MSE	2.66683
SBC	980.602264	AIC	934.997329
Regress R-Square	0.7873	Total R-Square	0.7873
Durbin-Watson	1.5040		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-10.8803	15.7305	-0.69	0.4900	
MaxCDDTrend	1	0.0155	0.002237	6.93	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.2787	0.0164	16.96	<.0001	50-CumMinTemp
Econ_BK_I	1	56.2886	15.9225	3.54	0.0005	Berkshire Empl/HH
d2008m2on	1	-3.2221	0.5713	-5.64	<.0001	Feb08on
d2005m4	1	6.1269	2.7622	2.22	0.0278	Apr05
d2002m8	1	7.8759	2.7269	2.89	0.0044	Aug02
d2000m7	1	-5.1407	2.6948	-1.91	0.0581	Jul00
Apr	1	-6.1925	0.7311	-8.47	<.0001	Apr
May	1	-5.1428	0.7534	-6.83	<.0001	May
Mar1999	1	-6.1167	2.6882	-2.28	0.0241	Mar1999
Mar2000	1	-7.2822	2.6845	-2.71	0.0073	Mar2000
Summer2004	1	4.3877	1.6029	2.74	0.0068	Summer2004
Summer2005on	1	3.7173	0.8956	4.15	<.0001	Summer2005on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	6.5934	1.000000	| |********************|
1	1.5142	0.229651	| |***** |

Preliminary MSE 6.2457

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.229651	0.073156	-3.14

Yule-Walker Estimates

SSE	1189.22816	DFE	177
MSE	6.71880	Root MSE	2.59207
SBC	973.913374	AIC	925.050943
Regress R-Square	0.7584	Total R-Square	0.8002
Durbin-Watson	1.8857		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-8.4892	19.5716	-0.43	0.6650	
MaxCDDTrend	1	0.0171	0.002246	7.63	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.2889	0.0179	16.17	<.0001	50-CumMinTemp
Econ_BK_I	1	53.5028	19.7876	2.70	0.0075	Berkshire Empl/HH
d2008m2on	1	-3.3428	0.6987	-4.78	<.0001	Feb08on
d2005m4	1	6.5052	2.6139	2.49	0.0137	Apr05
d2002m8	1	7.3113	2.5563	2.86	0.0047	Aug02
d2000m7	1	-5.1455	2.5393	-2.03	0.0442	Jul00
Apr	1	-5.6886	0.7113	-8.00	<.0001	Apr
May	1	-4.9921	0.7344	-6.80	<.0001	May
Mar1999	1	-6.1740	2.5525	-2.42	0.0166	Mar1999
Mar2000	1	-7.4998	2.5424	-2.95	0.0036	Mar2000
Summer2004	1	4.4487	1.7863	2.49	0.0137	Summer2004
Summer2005on	1	3.5129	0.9206	3.82	0.0002	Summer2005on

The AUTOREG Procedure

Dependent Variable Athol_CP
Athol Coincident Peak

Ordinary Least Squares Estimates

SSE	970.387421	DFE	180
MSE	5.39104	Root MSE	2.32186
SBC	919.040746	AIC	879.950801
MAE	1.76810772	AICC	881.693818
MAPE	4.40308456	Regress R-Square	0.8006
Durbin-Watson	1.1615	Total R-Square	0.8006

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-40.0637	6.0688	-6.60	<.0001	
MaxCDD	1	0.0884	0.0313	2.82	0.0053	MaxTemp-65
MaxHDD	1	0.1221	0.0433	2.82	0.0053	50-MaxTemp
CumMinHDD	1	0.1220	0.0420	2.91	0.0041	50-CumMinTemp
Econ_WO_I	1	70.0808	5.5967	12.52	<.0001	Worcester Empl/HH
Apr	1	-2.6565	0.6306	-4.21	<.0001	Apr
May	1	-2.7485	0.6772	-4.06	<.0001	May
Sep1996	1	4.9533	2.3639	2.10	0.0375	Sep1996
Jul1997	1	-6.1276	2.3559	-2.60	0.0101	Jul1997
Jun1998	1	-7.9705	2.3485	-3.39	0.0008	Jun1998
May2000	1	-5.5802	2.4054	-2.32	0.0215	May2000
Summer2002on	1	3.5027	0.6249	5.61	<.0001	Summer2002on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	5.0541	1.000000	| |********************|
1	2.0570	0.406999	| |******** |

Preliminary MSE 4.2169

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.406999	0.068273	-5.96

Yule-Walker Estimates

SSE	802.21261	DFE	179
MSE	4.48163	Root MSE	2.11699
SBC	887.93757	AIC	845.590131
MAE	1.60658185	AICC	847.635074
MAPE	4.01929777	Regress R-Square	0.7479
Durbin-Watson	2.0084	Total R-Square	0.8351

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-39.9890	8.9656	-4.46	<.0001	
MaxCDD	1	0.0883	0.0291	3.04	0.0027	MaxTemp-65
MaxHDD	1	0.1064	0.0357	2.98	0.0033	50-MaxTemp
CumMinHDD	1	0.1366	0.0365	3.74	0.0002	50-CumMinTemp
Econ_WO_I	1	69.9538	8.2661	8.46	<.0001	Worcester Empl/HH
Apr	1	-2.3155	0.5683	-4.07	<.0001	Apr
May	1	-2.5951	0.6281	-4.13	<.0001	May
Sep1996	1	4.7012	1.9766	2.38	0.0184	Sep1996
Jul1997	1	-6.1523	1.9673	-3.13	0.0021	Jul1997
Jun1998	1	-8.1219	1.9831	-4.10	<.0001	Jun1998
May2000	1	-5.6838	2.0415	-2.78	0.0059	May2000
Summer2002on	1	3.3644	0.6459	5.21	<.0001	Summer2002on

2011 PSA Forecast - Western (Mass)
NORTHAMPTON MODEL

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Northamp
Dependent Variable	Northampton_CP
Label	Northampton Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	4432.913	443.2913	72.82	<.0001
Error	133	809.6153	6.087333		
Corrected Total	143	5242.528			

Root MSE	2.46725	R-Square	0.84557
Dependent Mean	44.07895	Adj R-Sq	0.83396
Coeff Var	5.59735		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	7.150501	14.88548	0.48	0.6318	Intercept
MaxCDD	1	0.689254	0.033762	20.42	<.0001	MaxTemp-65
CumMinHDD	1	0.187928	0.020233	9.29	<.0001	50-CumMinTemp
Econ_HS_I	1	26.79544	13.62687	1.97	0.0513	Hampshire Empl/HH
d2007m5m10	1	-3.27312	1.162274	-2.82	0.0056	May07-Jun07
d2006m9m10	1	-6.56940	1.832176	-3.59	0.0005	Sep06-Oct06
d2008m2on	1	-3.17815	0.566557	-5.61	<.0001	Feb08on
Apr	1	-4.94855	0.774912	-6.39	<.0001	Apr
May	1	-6.11328	0.780967	-7.83	<.0001	May
Oct2001	1	-7.64952	2.501427	-3.06	0.0027	Oct2001
Sep2002	1	-10.3772	2.508833	-4.14	<.0001	Sep2002

Durbin-Watson	1.977565
Number of Observations	144
First-Order Autocorrelation	-0.00288

2011 PSA Forecast - Western (Mass)
PALMER MODEL

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Palmer_C
Dependent Variable	Palmer_CP
Label	Palmer Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	68383.36	4884.526	66.92	<.0001
Error	177	12919.18	72.98971		
Corrected Total	191	81302.54			

Root MSE	8.54340	R-Square	0.84110
Dependent Mean	144.57216	Adj R-Sq	0.82853
Coeff Var	5.90944		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-107.949	36.96993	-2.92	0.0040	Intercept
MaxCDDTrend	1	0.058227	0.008193	7.11	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	2.242541	0.303131	7.40	<.0001	CumMinTemp-60
MinHDD	1	0.788649	0.051390	15.35	<.0001	50-MinTemp
Econ_HD_I	1	224.6787	37.15599	6.05	<.0001	Hampden Empl/HH
d2010m10	1	-20.7642	8.842258	-2.35	0.0200	d2010m10
Apr	1	-10.2927	2.527059	-4.07	<.0001	Apr
May	1	-13.1241	2.663230	-4.93	<.0001	May
Summer2002on	1	8.470498	2.581011	3.28	0.0012	Summer2002on
Apr2000	1	-15.0870	8.940158	-1.69	0.0933	Apr2000
Apr2001	1	-17.2885	8.973839	-1.93	0.0556	Apr2001
Mar2002	1	-27.2204	8.658857	-3.14	0.0020	Mar2002
Oct2005	1	-24.1215	8.693137	-2.77	0.0061	Oct2005
Sep2004on	1	10.35865	1.524611	6.79	<.0001	Sep2004on
d2009on	1	-9.08006	2.334051	-3.89	0.0001	d2009on

Durbin-Watson	1.577057
Number of Observations	192
First-Order Autocorrelation	0.200947

The AUTOREG Procedure

Dependent Variable SouthBerkshire_CP
South Berkshire Coincident Peak

Ordinary Least Squares Estimates

SSE	1437.05199	DFE	181
MSE	7.93951	Root MSE	2.81771
SBC	989.172754	AIC	953.340305
MAE	2.08902676	AICC	954.806972
MAPE	5.14651547	Regress R-Square	0.8092
Durbin-Watson	1.7220	Total R-Square	0.8092

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-85.6601	15.4972	-5.53	<.0001	
MaxCDDTrend	1	0.0158	0.002428	6.50	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	0.5093	0.0948	5.37	<.0001	CumMinTemp-60
CumMinHDD	1	0.3553	0.0180	19.77	<.0001	50-CumMinTemp
Econ_BK_I	1	118.4021	15.6565	7.56	<.0001	Berkshire Empl/HH
Apr	1	-4.5229	0.7813	-5.79	<.0001	Apr
May	1	-2.4409	0.8657	-2.82	0.0053	May
Dec1998	1	7.0763	2.8360	2.50	0.0135	Dec1998
Mar1999	1	-6.1411	2.8394	-2.16	0.0319	Mar1999
Mar2000	1	-9.0338	2.8372	-3.18	0.0017	Mar2000
Summer2002on	1	3.8057	0.8367	4.55	<.0001	Summer2002on

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	7.4846	1.000000	| |********************|
1	1.0314	0.137806	| |*** |

Preliminary MSE 7.3425

2011 PSA Forecast - Western (Mass)
SOUTH BERKSHIRE MODEL

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.137806	0.073824	-1.87

Yule-Walker Estimates

SSE	1406.73615	DFE	180
MSE	7.81520	Root MSE	2.79557
SBC	990.355685	AIC	951.265741
MAE	2.06919168	AICC	953.008757
MAPE	5.09909629	Regress R-Square	0.7897
Durbin-Watson	1.9447	Total R-Square	0.8132

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-86.0610	17.7500	-4.85	<.0001	
MaxCDDTrend	1	0.0164	0.002531	6.50	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	0.4929	0.0974	5.06	<.0001	CumMinTemp-60
CumMinHDD	1	0.3583	0.0189	18.92	<.0001	50-CumMinTemp
Econ_BK_I	1	118.6946	17.9359	6.62	<.0001	Berkshire Empl/HH
Apr	1	-4.1979	0.7770	-5.40	<.0001	Apr
May	1	-2.3101	0.8675	-2.66	0.0084	May
Dec1998	1	7.0626	2.7834	2.54	0.0120	Dec1998
Mar1999	1	-6.0495	2.7934	-2.17	0.0317	Mar1999
Mar2000	1	-9.4198	2.7875	-3.38	0.0009	Mar2000
Summer2002on	1	3.7135	0.8650	4.29	<.0001	Summer2002on

2011 PSA Forecast - Merrimack and North Shore
Merrimack Model

The AUTOREG Procedure

Dependent Variable Merrimack_CP
Merrimack Coincident Peak

Ordinary Least Squares Estimates

SSE	497569.473	DFE	181
MSE	2749	Root MSE	52.43093
SBC	2096.81371	AIC	2064.29097
Regress R-Square	0.8477	Total R-Square	0.8477
Durbin-Watson	1.2067		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-1021	161.8580	-6.31	<.0001	
MaxCDD	1	6.7777	0.7509	9.03	<.0001	MaxTemp-65
CumMinCDD	1	14.3405	1.4970	9.58	<.0001	CumMinTemp-60
CumMinHDD	1	4.6787	0.4046	11.56	<.0001	50-CumMinTemp
Econ_ES_I	1	1498	151.3918	9.89	<.0001	Essex Empl/HH
May2001	1	-209.7532	53.2878	-3.94	0.0001	May2001
Oct2001	1	-115.6408	53.3240	-2.17	0.0314	Oct2001
Sep2002	1	113.5202	52.8824	2.15	0.0332	Sep2002
d2010m4	1	-141.2835	54.4298	-2.60	0.0102	d2010m4
d2010m5	1	155.5749	54.7352	2.84	0.0050	d2010m5

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	2605.1	1.000000	| |********************|
1	1022.2	0.392401	| |******** |

Preliminary MSE 2203.9

2011 PSA Forecast - Merrimack and North Shore
Merrimack Model

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.392401	0.068557	-5.72

Yule-Walker Estimates

SSE	414011.132	DFE	180
MSE	2300	Root MSE	47.95896
SBC	2067.26252	AIC	2031.48752
Regress R-Square	0.8148	Total R-Square	0.8733
Durbin-Watson	1.9642		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-991.1587	237.7454	-4.17	<.0001	
MaxCDD	1	5.7889	0.6954	8.32	<.0001	MaxTemp-65
CumMinCDD	1	15.1831	1.3682	11.10	<.0001	CumMinTemp-60
CumMinHDD	1	4.2900	0.4124	10.40	<.0001	50-CumMinTemp
Econ_ES_I	1	1483	222.1877	6.67	<.0001	Essex Empl/HH
May2001	1	-191.4970	45.2838	-4.23	<.0001	May2001
Oct2001	1	-114.3036	45.2123	-2.53	0.0123	Oct2001
Sep2002	1	127.0701	44.7584	2.84	0.0050	Sep2002
d2010m4	1	-136.7425	49.1710	-2.78	0.0060	d2010m4
d2010m5	1	141.2870	48.7657	2.90	0.0042	d2010m5

2011 PSA Forecast - Merrimack and North Shore
Essex Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Essex_CP
Dependent Variable	Essex_CP
Label	Essex Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	94642.32	13520.33	69.27	<.0001
Error	183	35719.86	195.1905		
Corrected Total	190	130362.2			

Root MSE	13.97106	R-Square	0.72600
Dependent Mean	176.38906	Adj R-Sq	0.71551
Coeff Var	7.92059		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-118.063	43.85077	-2.69	0.0078	Intercept
MaxCDDTrend	1	0.118717	0.008130	14.60	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	1.150462	0.099903	11.52	<.0001	50-CumMinTemp
Econ_ES_I	1	251.2574	41.36493	6.07	<.0001	Essex Empl/HH
Apr	1	-24.2846	3.813125	-6.37	<.0001	Apr
May	1	-31.0873	3.804992	-8.17	<.0001	May
Apr2004	1	60.77503	14.45803	4.20	<.0001	Apr2004
d2009on	1	-23.6346	3.236682	-7.30	<.0001	d2009on

Durbin-Watson	1.626143
Number of Observations	191
First-Order Autocorrelation	0.184334

2011 PSA Forecast - Merrimack and North Shore
Suburban Model

The AUTOREG Procedure

Dependent Variable Suburban_CP
Suburban Coincident Peak

Ordinary Least Squares Estimates

SSE	111305.991	DFE	179
MSE	621.82118	Root MSE	24.93634
SBC	1821.3049	AIC	1782.27762
Regress R-Square	0.7913	Total R-Square	0.7913
Durbin-Watson	1.0579		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	48.0728	69.0235	0.70	0.4870	
MaxCDD	1	3.3869	0.3827	8.85	<.0001	MaxTemp-65
CumMinCDD	1	4.5341	0.8044	5.64	<.0001	CumMinTemp-60
CumMinHDD	1	2.5888	0.1974	13.12	<.0001	50-CumMinTemp
Econ_MS_I	1	202.0964	65.4208	3.09	0.0023	Middlesex Empl/HH
May	1	-42.2621	7.6119	-5.55	<.0001	May
Sep1995	1	-74.8759	25.4563	-2.94	0.0037	Sep1995
Jun1998	1	-67.7285	25.1108	-2.70	0.0077	Jun1998
Oct2001	1	-67.0724	25.5718	-2.62	0.0095	Oct2001
Apr2002	1	-83.2696	26.5784	-3.13	0.0020	Apr2002
d2010m4	1	-71.9916	26.2311	-2.74	0.0067	d2010m4
d2010m5	1	63.9070	26.3958	2.42	0.0165	d2010m5

Estimates of Autocorrelations

```
 Lag    Covariance    Correlation    -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

   0         582.8       1.000000    |                    |********************|
   1         272.1       0.466849    |                    |*********           |
```

Preliminary MSE 455.7

2011 PSA Forecast - Merrimack and North Shore
Suburban Model

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.466849	0.066284	-7.04

Yule-Walker Estimates

SSE	82560.6875	DFE	178
MSE	463.82409	Root MSE	21.53658
SBC	1769.93903	AIC	1727.65948
Regress R-Square	0.7929	Total R-Square	0.8452
Durbin-Watson	2.0489		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	47.6588	107.6579	0.44	0.6585	
MaxCDD	1	2.7164	0.3332	8.15	<.0001	MaxTemp-65
CumMinCDD	1	5.2491	0.6765	7.76	<.0001	CumMinTemp-60
CumMinHDD	1	2.4249	0.1905	12.73	<.0001	50-CumMinTemp
Econ_MS_I	1	208.4485	102.2311	2.04	0.0429	Middlesex Empl/HH
May	1	-34.2955	5.7506	-5.96	<.0001	May
Sep1995	1	-67.7609	19.6986	-3.44	0.0007	Sep1995
Jun1998	1	-48.0524	19.6684	-2.44	0.0155	Jun1998
Oct2001	1	-52.3951	19.8433	-2.64	0.0090	Oct2001
Apr2002	1	-58.6853	21.0899	-2.78	0.0060	Apr2002
d2010m4	1	-82.0225	22.0514	-3.72	0.0003	d2010m4
d2010m5	1	36.0465	21.9877	1.64	0.1029	d2010m5

2011 PSA Forecast - SouthEast (Mass)
Attleboro Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Attlebor
Dependent Variable	Attleboro_CP
Label	Attleboro Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	274104.6	34263.07	173.81	<.0001
Error	182	35877.61	197.1297		
Corrected Total	190	309982.2			

Root MSE	14.04029	R-Square	0.88426
Dependent Mean	239.17795	Adj R-Sq	0.87917
Coeff Var	5.87023		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-233.827	41.94504	-5.57	<.0001	Intercept
MaxCDDTrend	1	0.173666	0.009915	17.52	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.852219	0.100096	8.51	<.0001	55-Min Temp,1,2
Econ_BS_I	1	402.8604	38.87307	10.36	<.0001	Bristol Empl/HH
Apr	1	-24.4692	3.886734	-6.30	<.0001	Apr
May	1	-26.2365	3.974614	-6.60	<.0001	May
Sep1999	1	-44.7363	14.17924	-3.16	0.0019	Sep1999
Summer2002on	1	26.04649	4.172559	6.24	<.0001	Summer2002on
d2010m4	1	-61.7204	15.16918	-4.07	<.0001	d2010m4

Durbin-Watson	1.601226
Number of Observations	191
First-Order Autocorrelation	0.193666

2011 PSA Forecast - SouthEast (Mass)
FallRiver Model

The AUTOREG Procedure

Dependent Variable FallRiver_CP
FallRiver Coincident Peak

Ordinary Least Squares Estimates

SSE	13427.8447	DFE	179
MSE	75.01589	Root MSE	8.66117
SBC	1417.34896	AIC	1378.32168
Regress R-Square	0.8495	Total R-Square	0.8495
Durbin-Watson	1.1911		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-86.1089	26.0774	-3.30	0.0012	
MaxCDD	1	0.7341	0.1290	5.69	<.0001	MaxTemp-65
CumMinCDD	1	2.1864	0.2986	7.32	<.0001	CumMinTemp-60
CumMinHDD	1	0.5229	0.0713	7.34	<.0001	55-Min Temp,1,2
Econ_BS_I	1	185.8827	23.9998	7.75	<.0001	Bristol Empl/HH
Apr	1	-8.2202	2.5489	-3.22	0.0015	Apr
May	1	-7.3873	2.7604	-2.68	0.0081	May
Jun1997	1	-18.8582	8.7867	-2.15	0.0332	Jun1997
Oct1999	1	29.8803	8.8385	3.38	0.0009	Oct1999
Apr2000	1	22.2852	8.9948	2.48	0.0142	Apr2000
Summer2002on	1	17.6155	2.2917	7.69	<.0001	Summer2002on
d2010m4	1	-20.1346	9.3762	-2.15	0.0331	d2010m4

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	70.3029	1.000000	| |********************|
1	28.2866	0.402353	| |******** |

Preliminary MSE 58.9217

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.402353	0.068618	-5.86

Yule-Walker Estimates

SSE	11149.392	DFE	178
MSE	62.63703	Root MSE	7.91436
SBC	1387.41229	AIC	1345.13273
Regress R-Square	0.8197	Total R-Square	0.8750
Durbin-Watson	2.0347		

2011 PSA Forecast - SouthEast (Mass)
FallRiver Model

The AUTOREG Procedure

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-83.8961	38.7593	-2.16	0.0318	
MaxCDD	1	0.7252	0.1142	6.35	<.0001	MaxTemp-65
CumMinCDD	1	2.2200	0.2718	8.17	<.0001	CumMinTemp-60
CumMinHDD	1	0.5151	0.0699	7.37	<.0001	55-Min Temp,1,2
Econ_BS_I	1	183.7274	35.6837	5.15	<.0001	Bristol Empl/HH
Apr	1	-6.7203	2.2592	-2.97	0.0033	Apr
May	1	-5.3685	2.4891	-2.16	0.0324	May
Jun1997	1	-17.9798	7.4802	-2.40	0.0173	Jun1997
Oct1999	1	25.6346	7.4850	3.42	0.0008	Oct1999
Apr2000	1	22.2113	7.6520	2.90	0.0042	Apr2000
Summer2002on	1	17.7903	2.4622	7.23	<.0001	Summer2002on
d2010m4	1	-23.0656	7.8730	-2.93	0.0038	d2010m4

2011 PSA Forecast - SouthEast (Mass)
Marlboro Model

The AUTOREG Procedure

Dependent Variable Marlboro_CP
Marlboro Coincident Peak

Ordinary Least Squares Estimates

SSE	47284.2806	DFE	185
MSE	255.59071	Root MSE	15.98720
SBC	1626.27517	AIC	1606.76153
Regress R-Square	0.7664	Total R-Square	0.7664
Durbin-Watson	0.9881		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-125.0201	43.7069	-2.86	0.0047	
MaxCDDTrend	1	0.1436	0.0112	12.78	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.8132	0.1099	7.40	<.0001	55-Min Temp,1,2
Econ_MS_I	1	266.6438	41.8360	6.37	<.0001	Middlesex Empl/HH
Summer2002on	1	23.7120	4.5610	5.20	<.0001	Summer2002on
d2010m4	1	-66.8069	16.5936	-4.03	<.0001	d2010m4

Estimates of Autocorrelations

```
Lag    Covariance    Correlation    -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

  0        247.6        1.000000    |                    |********************|
  1        125.3        0.506308    |                    |**********          |
```

Preliminary MSE 184.1

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.506308	0.063573	-7.96

Yule-Walker Estimates

SSE	35105.7766	DFE	184
MSE	190.79226	Root MSE	13.81276
SBC	1575.16971	AIC	1552.40379
Regress R-Square	0.6878	Total R-Square	0.8265
Durbin-Watson	2.0063		

2011 PSA Forecast - SouthEast (Mass)
Marlboro Model

The AUTOREG Procedure

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-128.6509	74.1461	-1.74	0.0844	
MaxCDDTrend	1	0.1411	0.0101	13.99	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.7922	0.1119	7.08	<.0001	55-Min Temp,1,2
Econ_MS_I	1	271.0494	70.6255	3.84	0.0002	Middlesex Empl/HH
Summer2002on	1	21.8385	4.0379	5.41	<.0001	Summer2002on
d2010m4	1	-68.8766	12.5604	-5.48	<.0001	d2010m4

2011 PSA Forecast - SouthEast (Mass)
Uxbridge Model

The AUTOREG Procedure

Dependent Variable Uxbridge_CP
Uxbridge Coincident Peak

Ordinary Least Squares Estimates

SSE	11825.2296	DFE	177
MSE	66.80921	Root MSE	8.17369
SBC	1403.57833	AIC	1358.0465
Regress R-Square	0.8766	Total R-Square	0.8766
Durbin-Watson	1.3091		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-271.3461	26.4063	-10.28	<.0001	
MaxCDDTrend	1	0.0716	0.007257	9.87	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	0.7899	0.2475	3.19	0.0017	CumMinTemp-60
CumMinHDD	1	0.8369	0.0644	12.99	<.0001	55-Min Temp,1,2
Econ_BS_I	1	329.5971	24.4012	13.51	<.0001	Bristol Empl/HH
Apr	1	-5.7658	2.3536	-2.45	0.0153	Apr
May	1	-9.6601	2.6189	-3.69	0.0003	May
Sep1998	1	-16.2690	8.2702	-1.97	0.0507	Sep1998
Oct2001	1	-21.2851	8.3660	-2.54	0.0118	Oct2001
Sep2002	1	17.0841	8.4797	2.01	0.0454	Sep2002
Summer2002on	1	16.6824	2.4630	6.77	<.0001	Summer2002on
d2009on	1	12.5995	2.1803	5.78	<.0001	d2009on
d2010m4	1	-25.0486	9.0330	-2.77	0.0061	d2010m4
d2010m10	1	-16.9344	8.4678	-2.00	0.0470	d2010m10

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	61.9122	1.000000	| |********************|
1	21.2581	0.343360	| |******* |

Preliminary MSE 54.6130

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.343360	0.070795	-4.85

2011 PSA Forecast - SouthEast (Mass)
Uxbridge Model

The AUTOREG Procedure

Yule-Walker Estimates

SSE	10104.348	DFE	176
MSE	57.41107	Root MSE	7.57701
SBC	1379.02902	AIC	1330.24492
Regress R-Square	0.8335	Total R-Square	0.8946
Durbin-Watson	2.0198		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-280.6605	35.9364	-7.81	<.0001	
MaxCDDTrend	1	0.0617	0.007054	8.74	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	0.8548	0.2453	3.48	0.0006	CumMinTemp-60
CumMinHDD	1	0.7354	0.0646	11.38	<.0001	55-Min Temp,1,2
Econ_BS_I	1	340.3650	33.1277	10.27	<.0001	Bristol Empl/HH
Apr	1	-5.4617	2.1322	-2.56	0.0113	Apr
May	1	-9.8543	2.4178	-4.08	<.0001	May
Sep1998	1	-14.4019	7.2212	-1.99	0.0477	Sep1998
Oct2001	1	-18.8411	7.2675	-2.59	0.0103	Oct2001
Sep2002	1	19.6169	7.4499	2.63	0.0092	Sep2002
Summer2002on	1	16.7084	2.4644	6.78	<.0001	Summer2002on
d2009on	1	14.6517	2.7653	5.30	<.0001	d2009on
d2010m4	1	-30.8102	7.7936	-3.95	0.0001	d2010m4
d2010m10	1	-23.3664	7.3062	-3.20	0.0016	d2010m10

2011 PSA Forecast - SouthShore (Mass)
Brockton Model

The AUTOREG Procedure

Dependent Variable Brockton_CP
Brockton Coincident Peak

Ordinary Least Squares Estimates

SSE	90291.4273	DFE	180
MSE	501.61904	Root MSE	22.39685
SBC	1776.08768	AIC	1740.31267
Regress R-Square	0.8980	Total R-Square	0.8980
Durbin-Watson	1.4846		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	135.2032	49.9600	2.71	0.0075	
MaxCDDTrend	1	0.1652	0.0205	8.06	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	5.9602	0.6220	9.58	<.0001	CumMinTemp-60
CumMinHDDTrend	1	0.1164	0.0124	9.42	<.0001	(50-CumMinTemp)*T
Econ_PL_I	1	148.8948	46.2078	3.22	0.0015	Plymouth Empl/HH
Apr	1	-24.1922	6.6075	-3.66	0.0003	Apr
May	1	-30.7193	6.8818	-4.46	<.0001	May
Apr1996	1	-71.9473	23.4941	-3.06	0.0025	Apr1996
Summer2002on	1	55.1768	6.7497	8.17	<.0001	Summer2002on
d2010m4	1	-73.5540	24.8410	-2.96	0.0035	d2010m4
d2010m5	1	66.4258	24.2907	2.73	0.0069	d2010m5

Estimates of Autocorrelations

```
Lag   Covariance   Correlation   -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

  0        472.7      1.000000   |                    |********************|
  1        118.7      0.251182   |                    |*****               |
```

Preliminary MSE 442.9

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.251182	0.072347	-3.47

Yule-Walker Estimates

SSE	84184.3047	DFE	179
MSE	470.30338	Root MSE	21.68648
SBC	1768.08981	AIC	1729.06253
Regress R-Square	0.8754	Total R-Square	0.9049
Durbin-Watson	1.9701		

2011 PSA Forecast - SouthShore (Mass)
Brockton Model

The AUTOREG Procedure

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	152.6324	59.7519	2.55	0.0115	
MaxCDDTrend	1	0.1789	0.0210	8.53	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	5.7186	0.6524	8.77	<.0001	CumMinTemp-60
CumMinHDDTrend	1	0.1211	0.0132	9.17	<.0001	(50-CumMinTemp)*T
Econ_PL_I	1	132.1396	54.7527	2.41	0.0168	Plymouth Empl/HH
Apr	1	-22.3431	6.3502	-3.52	0.0006	Apr
May	1	-32.3646	6.7521	-4.79	<.0001	May
Apr1996	1	-78.2474	21.9255	-3.57	0.0005	Apr1996
Summer2002on	1	51.9378	7.0230	7.40	<.0001	Summer2002on
d2010m4	1	-80.5308	24.1700	-3.33	0.0010	d2010m4
d2010m5	1	65.1725	23.3583	2.79	0.0058	d2010m5

2011 PSA Forecast - SouthShore (Mass)
Weymouth Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Weymouth
Dependent Variable	Weymouth_CP
Label	Weymouth Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	146057.2	16228.57	85.09	<.0001
Error	181	34520.23	190.7195		
Corrected Total	190	180577.4			

Root MSE	13.81012	R-Square	0.80883
Dependent Mean	204.21416	Adj R-Sq	0.79933
Coeff Var	6.76257		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	84.57932	42.60566	1.99	0.0486	Intercept
MaxCDDTrend	1	0.096253	0.009801	9.82	<.0001	(MaxTemp-65)*Trend
CumMinCDD	1	4.376556	0.389944	11.22	<.0001	CumMinTemp-60
CumMinHDD	1	1.470808	0.105715	13.91	<.0001	50-CumMinTemp
Econ_NF_I	1	70.10485	39.81445	1.76	0.0800	Norfolk Empl/HH
Apr	1	-10.8125	3.947376	-2.74	0.0068	Apr
May	1	-14.0067	4.217043	-3.32	0.0011	May
Oct2001	1	-43.3258	14.09598	-3.07	0.0024	Oct2001
d2010m4	1	-40.2764	14.97573	-2.69	0.0078	d2010m4
d2010m9	1	-70.7126	14.20947	-4.98	<.0001	d2010m9

Durbin-Watson	1.760224
Number of Observations	191
First-Order Autocorrelation	0.11799

2011 PSA Forecast - Narragansett
Blackstone Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Blacksto
Dependent Variable	Blackstone_CP
Label	Blackstone Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	216380.3	19670.93	99.08	<.0001
Error	179	35537.08	198.5312		
Corrected Total	190	251917.4			

Root MSE	14.09011	R-Square	0.85893
Dependent Mean	224.36294	Adj R-Sq	0.85026
Coeff Var	6.28005		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	71.44494	35.37492	2.02	0.0449	Intercept
MaxCDD	1	2.730657	0.148726	18.36	<.0001	MaxTemp-65
CumMinHDD	1	0.690849	0.115638	5.97	<.0001	50-CumMinTemp
Econ_RI_I	1	115.1329	33.92822	3.39	0.0008	Rhode Island Empl/HH
Apr	1	-22.8561	3.974908	-5.75	<.0001	Apr
May	1	-25.0593	4.029236	-6.22	<.0001	May
May1996	1	-45.8060	14.79677	-3.10	0.0023	May1996
Summer2005on	1	24.74113	4.181693	5.92	<.0001	Summer2005on
d2009on	1	-22.4242	3.481636	-6.44	<.0001	d2009on
Apr2010	1	-36.1718	15.11454	-2.39	0.0177	
Oct2010	1	-46.5979	14.56680	-3.20	0.0016	
Nov2010	1	-34.2664	14.49452	-2.36	0.0191	

Durbin-Watson	1.784538
Number of Observations	191
First-Order Autocorrelation	0.101125

2011 PSA Forecast - Narragansett
Newport Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Newport_
Dependent Variable	Newport_CP
Label	Newport Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	26912.63	4485.438	87.20	<.0001
Error	184	9464.550	51.43777		
Corrected Total	190	36377.18			

Root MSE	7.17201	R-Square	0.73982
Dependent Mean	95.46391	Adj R-Sq	0.73134
Coeff Var	7.51280		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-40.5183	17.42351	-2.33	0.0211	Intercept
MaxCDDTrend	1	0.059055	0.003997	14.77	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.462219	0.050771	9.10	<.0001	50-CumMinTemp
Econ_RI_I	1	118.8170	16.86386	7.05	<.0001	Rhode Island Empl/HH
Apr	1	-13.1019	1.908299	-6.87	<.0001	Apr
May	1	-17.8736	1.952188	-9.16	<.0001	May
Aug1995	1	-17.8467	7.284723	-2.45	0.0152	Aug1995

Durbin-Watson	1.877406
Number of Observations	191
First-Order Autocorrelation	0.058184

2011 PSA Forecast - Narragansett
Providence Model

The AUTOREG Procedure

Dependent Variable Providence_CP
Providence Coincident Peak

Ordinary Least Squares Estimates

SSE	69778.5751	DFE	170
MSE	410.46221	Root MSE	20.25987
SBC	1609.48756	AIC	1584.03329
Regress R-Square	0.8679	Total R-Square	0.8679
Durbin-Watson	1.6855		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	52.5812	56.2537	0.93	0.3513	
MaxCDD	1	4.2642	0.2179	19.57	<.0001	MaxTemp-65
CumMinHDD	1	1.2070	0.1706	7.08	<.0001	50-CumMinTemp
Econ_RI_I	1	208.1066	53.9972	3.85	0.0002	Rhode Island Empl/HH
Apr	1	-28.2202	5.9343	-4.76	<.0001	Apr
May	1	-30.6822	5.8096	-5.28	<.0001	May
JulAug2002on	1	43.4896	5.8745	7.40	<.0001	JulAug2002on
Apr2010	1	-51.8212	21.4007	-2.42	0.0165	

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	392.0	1.000000	| |********************|
1	60.3294	0.153896	| |*** |

Preliminary MSE 382.7

2011 PSA Forecast - Narragansett
Providence Model

The AUTOREG Procedure

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.153896	0.076007	-2.02

Yule-Walker Estimates

SSE	67805.0504	DFE	169
MSE	401.21332	Root MSE	20.03031
SBC	1609.63325	AIC	1580.9972
Regress R-Square	0.8457	Total R-Square	0.8716
Durbin-Watson	1.9554		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	52.5724	65.2175	0.81	0.4213	
MaxCDD	1	4.1478	0.2196	18.89	<.0001	MaxTemp-65
CumMinHDD	1	1.1229	0.1757	6.39	<.0001	50-CumMinTemp
Econ_RI_I	1	210.7414	62.5243	3.37	0.0009	Rhode Island Empl/HH
Apr	1	-28.2203	5.8397	-4.83	<.0001	Apr
May	1	-33.4669	5.6652	-5.91	<.0001	May
JulAug2002on	1	42.4085	5.9096	7.18	<.0001	JulAug2002on
Apr2010	1	-59.5075	20.8661	-2.85	0.0049	

2011 PSA Forecast - Narragansett
Western NECo Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	WesternN
Dependent Variable	WesternNeco_CP
Label	Western NECo Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	1880653	313442.1	135.66	<.0001
Error	183	422810.8	2310.442		
Corrected Total	189	2303463			

Root MSE	48.06705	R-Square	0.81645
Dependent Mean	602.80488	Adj R-Sq	0.81043
Coeff Var	7.97390		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-447.203	115.8183	-3.86	0.0002	Intercept
MaxCDDTrend	1	0.511173	0.026878	19.02	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	1.766072	0.342372	5.16	<.0001	50-CumMinTemp
Econ_RI_I	1	930.6894	112.2519	8.29	<.0001	Rhode Island Empl/HH
Apr	1	-96.7876	12.79986	-7.56	<.0001	Apr
May	1	-115.871	13.09849	-8.85	<.0001	May
Oct2001	1	-130.525	48.43751	-2.69	0.0077	Oct2001

Durbin-Watson	1.58034
Number of Observations	190
First-Order Autocorrelation	0.204533

2011 PSA Forecast - Granite State
Eastern Model

The AUTOREG Procedure

Dependent Variable Eastern_CP
Eastern Coincident Peak

Ordinary Least Squares Estimates

SSE	6050.66107	DFE	182
MSE	33.24539	Root MSE	5.76588
SBC	1249.33401	AIC	1220.06355
Regress R-Square	0.7817	Total R-Square	0.7817
Durbin-Watson	1.3615		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	43.6005	6.5077	6.70	<.0001	
MaxCDDTrend	1	0.0408	0.004435	9.21	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.1279	0.0348	3.68	0.0003	50-CumMinTemp
Econ_RK_I	1	11.9272	5.4169	2.20	0.0289	Rockingham Empl/HH
d1997m2	1	-18.1066	5.8583	-3.09	0.0023	Feb97
Apr	1	-11.1443	1.5918	-7.00	<.0001	Apr
May	1	-8.6044	1.6649	-5.17	<.0001	May
Summer2002on	1	12.1394	1.6935	7.17	<.0001	Summer2002on
d2010m4	1	-13.4922	6.0652	-2.22	0.0273	d2010m4

Estimates of Autocorrelations

```
Lag   Covariance   Correlation   -1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1

  0      31.6789      1.000000   |                    |********************|
  1      10.0615      0.317610   |                    |******              |
```

Preliminary MSE 28.4832

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.317610	0.070481	-4.51

Yule-Walker Estimates

SSE	5355.73872	DFE	181
MSE	29.58972	Root MSE	5.43964
SBC	1231.48694	AIC	1198.96421
Regress R-Square	0.7327	Total R-Square	0.8067
Durbin-Watson	1.8497		

2011 PSA Forecast - Granite State
Eastern Model

The AUTOREG Procedure

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	44.5829	8.7104	5.12	<.0001	
MaxCDDTrend	1	0.0459	0.004336	10.58	<.0001	(MaxTemp-65)*Trend
CumMinHDD	1	0.1779	0.0378	4.71	<.0001	50-CumMinTemp
Econ_RK_I	1	9.7908	7.1083	1.38	0.1701	Rockingham Empl/HH
d1997m2	1	-16.6319	5.2384	-3.18	0.0018	Feb97
Apr	1	-9.9491	1.4983	-6.64	<.0001	Apr
May	1	-8.6321	1.5759	-5.48	<.0001	May
Summer2002on	1	11.8801	1.6998	6.99	<.0001	Summer2002on
d2010m4	1	-17.4874	5.4186	-3.23	0.0015	d2010m4

2011 PSA Forecast - Granite State
Western Model

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model	Western_
Dependent Variable	Western_CP
Label	Western Coincident Peak

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	17229.94	1566.359	123.61	<.0001
Error	179	2268.179	12.67139		
Corrected Total	190	19498.12			

Root MSE	3.55969	R-Square	0.88367
Dependent Mean	67.48790	Adj R-Sq	0.87652
Coeff Var	5.27456		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variable Label
Intercept	1	-8.47582	6.381237	-1.33	0.1858	Intercept
MaxCDDTrend	1	0.035304	0.002591	13.63	<.0001	(MaxTemp-65)*Trend
MaxHDDTrend	1	0.016144	0.001891	8.54	<.0001	(55-MaxTemp)*Trend
Econ_GR_I	1	57.94461	5.708564	10.15	<.0001	Grafton Empl/HH
Apr	1	-7.75333	0.961574	-8.06	<.0001	Apr
May	1	-4.86102	1.037569	-4.69	<.0001	May
Mar1999	1	-10.2457	3.577349	-2.86	0.0047	Mar1999
May1999	1	-11.8400	3.710642	-3.19	0.0017	May1999
Jun1999	1	-11.5952	3.587549	-3.23	0.0015	Jun1999
Mar2000	1	-9.60944	3.580520	-2.68	0.0080	Mar2000
Oct2001	1	-7.64315	3.586367	-2.13	0.0344	Oct2001
Summer2005on	1	6.355742	1.142180	5.56	<.0001	Summer2005on

Durbin-Watson	1.917497
Number of Observations	191
First-Order Autocorrelation	0.038062

2011 PSA Forecast - Nantucket
Nantucket MODEL

The AUTOREG Procedure

Dependent Variable Nantucket_CP
Nantucket Coincident Peak

Ordinary Least Squares Estimates

SSE	1063.68627	DFE	183
MSE	5.81249	Root MSE	2.41091
SBC	920.89393	AIC	891.576472
Regress R-Square	0.8091	Total R-Square	0.8091
Durbin-Watson	1.0014		

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-51.3323	7.0986	-7.23	<.0001	
MaxCDDTrend	1	0.0324	0.002721	11.90	<.0001	(MaxTemp-65)*Trend
CumMinHDDTrend	1	0.0107	0.001173	9.10	<.0001	(50-CumMinTemp)*Trend
Econ_MA_I	1	65.9548	6.7065	9.83	<.0001	Mass Empl/HH
Mar	1	-1.7776	0.6552	-2.71	0.0073	Mar
Apr	1	-2.2841	0.6509	-3.51	0.0006	Apr
Jul	1	3.9544	0.7909	5.00	<.0001	Jul
Aug	1	6.0924	0.8059	7.56	<.0001	Aug
Sep	1	1.0014	0.7333	1.37	0.1738	Sep

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	5.5400	1.000000	| |********************|
1	2.7610	0.498377	| |********** |

Preliminary MSE 4.1640

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.498377	0.064263	-7.76

Yule-Walker Estimates

SSE	774.680753	DFE	182
MSE	4.25649	Root MSE	2.06313
SBC	865.564358	AIC	832.989404
Regress R-Square	0.7586	Total R-Square	0.8610
Durbin-Watson	1.9079		

2011 PSA Forecast - Nantucket
Nantucket MODEL

The AUTOREG Procedure

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|	Variable Label
Intercept	1	-51.8522	11.6807	-4.44	<.0001	
MaxCDDTrend	1	0.0277	0.002659	10.42	<.0001	(MaxTemp-65)*Trend
CumMinHDDTrend	1	0.0107	0.001277	8.37	<.0001	(50-CumMinTemp)*Trend
Econ_MA_I	1	66.4673	10.9817	6.05	<.0001	Mass Empl/HH
Mar	1	-1.2306	0.5201	-2.37	0.0190	Mar
Apr	1	-2.0450	0.5179	-3.95	0.0001	Apr
Jul	1	4.3437	0.6140	7.07	<.0001	Jul
Aug	1	6.9475	0.7090	9.80	<.0001	Aug
Sep	1	1.9472	0.6018	3.24	0.0014	Sep

Appendix J

2011 Power Supply Area Forecast

Weather Data

Energy Portfolio Management
Electric Load Forecasting

March 31, 2011

Appendix J

Contents

Boston Weather Station

Normal Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**18**	**6**	**27**	**13**	**31**	**17**
Feb	26	14	33	19	36	23
Mar	35	21	42	26	41	27
Apr	51	37	54	39	54	40
May	81	59	80	55	71	52
Jun	91	70	86	66	83	64
JUL	92	72	89	71	87	69
Aug	**95**	**74**	**93**	**73**	**90**	**72**
Sep	86	68	81	65	78	62
Oct	62	49	61	46	63	46
Nov	43	32	48	35	50	38
Dec	34	18	38	25	41	28

Extreme Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**8**	**-5**	**8**	**-4**	**18**	**1**
Feb	10	3	14	4	19	7
Mar	23	6	30	16	25	11
Apr	31	20	36	28	38	31
May	94	73	92	70	91	62
Jun	96	76	95	73	93	77
JUL	100	79	97	81	95	78
Aug	**101**	**80**	**97**	**81**	**96**	**78**
Sep	95	74	94	77	96	75
Oct	86	65	81	64	83	67
Nov	32	22	37	22	33	26
Dec	18	6	22	11	27	17

Worcester Weather Station

Normal Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**13**	**1**	**22**	**6**	**26**	**10**
Feb	22	8	28	12	31	15
Mar	29	15	37	21	38	22
Apr	49	34	53	36	53	37
May	79	58	77	55	73	51
Jun	85	67	84	65	80	61
JUL	87	69	85	67	83	65
Aug	**90**	**71**	**88**	**70**	**85**	**67**
Sep	81	65	78	62	77	60
Oct	57	44	56	42	60	42
Nov	37	26	42	28	45	32
Dec	26	12	32	18	35	21

Extreme Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**3**	**-7**	**2**	**-9**	**13**	**-2**
Feb	5	-7	9	-2	14	-2
Mar	16	0	24	10	23	6
Apr	26	13	33	20	36	27
May	94	68	87	69	87	66
Jun	94	71	92	73	89	71
JUL	**96**	77	92	73	89	71
Aug	**96**	**77**	**92**	**74**	**91**	**71**
Sep	90	71	89	70	91	71
Oct	80	65	75	62	77	63
Nov	27	16	31	17	29	20
Dec	12	0	19	4	20	8

Providence Weather Station

Normal Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	**Temperature**	**Temperature**	**Temperature**	**Temperature**	**Temperature**	**Temperature**
JAN	**20**	**7**	**29**	**13**	**32**	**16**
Feb	27	13	34	18	37	22
Mar	35	23	41	26	43	26
Apr	53	37	54	38	56	40
May	82	58	79	53	74	50
Jun	89	68	87	66	82	63
JUL	92	71	89	70	87	68
Aug	**95**	**73**	**93**	**72**	**90**	**70**
Sep	85	67	82	64	80	60
Oct	63	48	63	46	64	44
Nov	43	31	50	34	52	36
Dec	32	20	40	25	43	28

Extreme Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	**Temperature**	**Temperature**	**Temperature**	**Temperature**	**Temperature**	**Temperature**
JAN	**9**	**-5**	**13**	**1**	**19**	**3**
Feb	14	-1	13	5	19	6
Mar	22	8	32	16	29	12
Apr	33	21	40	28	37	30
May	96	66	93	61	91	61
Jun	96	73	97	74	94	74
JUL	**102**	76	97	77	97	74
Aug	**102**	**76**	**97**	**77**	**97**	**75**
Sep	95	76	94	74	90	72
Oct	85	68	79	67	82	66
Nov	33	21	34	23	40	28
Dec	17	6	25	12	33	18

Concord Weather Station

Normal Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**13**	**-4**	**22**	**2**	**25**	**5**
Feb	20	4	28	7	31	13
Mar	31	12	35	18	35	18
Apr	59	35	62	31	61	34
May	86	51	82	47	76	42
Jun	91	65	88	61	83	57
JUL	91	66	89	62	87	60
Aug	**95**	**69**	**93**	**66**	**90**	**64**
Sep	85	59	84	56	80	53
Oct	60	41	60	37	60	36
Nov	36	25	44	26	46	28
Dec	25	8	34	13	36	18

Extreme Peak Day Temperatures

	Day of Monthly Peak		One Day Prior		Two Days Prior	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Month	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
JAN	**0**	**-21**	**7**	**-6**	**16**	**-4**
Feb	5	-16	7	-6	17	-3
Mar	16	-5	23	0	19	1
Apr	26	14	33	15	35	15
May	96	60	92	60	93	58
Jun	98	71	95	70	95	70
JUL	**99**	72	97	72	93	70
Aug	**99**	**76**	**97**	**72**	**96**	**71**
Sep	95	66	95	65	91	71
Oct	83	61	81	58	79	50
Nov	29	14	34	7	31	12
Dec	11	-5	20	-5	22	-1

Massachusetts Electric Company
Historical Peak Day Temperatures - Boston Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1994	**1**	**19**	**19**	**10**	**2**	**45**	**6**	**47**	**4**
1994	2	8	19	17	9	38	18	37	30
1994	3	2	19	30	18	34	19	29	13
1994	4	4	11	50	41	62	39	40	34
1994	5	31	14	85	63	84	60	81	54
1994	6	17	15	93	64	74	55	74	56
1994	***7***	***21***	***14***	***96***	***75***	***94***	***73***	***89***	***68***
1994	8	4	15	91	71	85	71	87	76
1994	9	13	20	83	63	75	57	68	54
1994	10	26	19	57	47	67	49	68	52
1994	11	28	18	65	35	37	22	46	26
1994	12	12	18	30	19	46	33	43	39
1995	1	11	18	20	14	28	20	36	26
1995	**2**	**6**	**19**	**10**	**3**	**26**	**6**	**38**	**25**
1995	3	9	19	60	21	67	43	42	33
1995	4	5	21	31	20	58	28	45	31
1995	5	31	17	88	58	75	60	68	53
1995	6	19	17	95	73	91	68	87	61
1995	***7***	***26***	***14***	***90***	***72***	***78***	***70***	***87***	***73***
1995	8	16	17	90	72	83	69	77	69
1995	9	1	14	88	71	83	61	80	61
1995	10	31	18	49	41	53	38	56	45
1995	11	29	18	35	29	64	36	47	38
1995	**12**	**14**	**18**	**37**	**19**	**29**	**18**	**27**	**17**
1996	1	3	18	30	15	34	24	36	33
1996	2	5	19	18	4	14	4	19	11
1996	3	4	19	31	20	39	23	34	28
1996	4	10	12	37	33	41	33	38	33
1996	5	21	14	90	69	90	53	63	53
1996	6	12	17	86	69	83	69	69	57
1996	7	18	17	88	70	87	73	86	72
1996	***8***	***6***	***15***	***84***	***69***	***83***	***65***	***73***	***63***
1996	9	6	14	82	71	84	70	75	63
1996	10	30	18	55	43	55	43	61	50
1996	11	27	18	32	22	44	32	41	33
1996	12	10	18	40	32	43	29	48	34
1997	**1**	**17**	**18**	**28**	**11**	**50**	**31**	**37**	**24**
1997	2	11	19	32	27	39	26	36	20
1997	3	6	19	43	33	51	35	37	33
1997	4	9	21	34	27	48	34	73	50
1997	5	9	12	49	44	63	43	54	43
1997	6	30	17	91	71	91	68	81	64
1997	***7***	***14***	***17***	***92***	***74***	***89***	***71***	***90***	***69***
1997	8	11	15	87	68	91	68	79	63
1997	9	2	21	82	66	75	66	69	63
1997	10	28	18	48	40	51	46	47	35
1997	11	25	18	38	22	39	29	33	30
1997	12	15	18	36	19	41	21	43	30
1998	1	15	18	35	17	30	20	47	29
1998	2	5	19	34	29	39	34	49	36
1998	**3**	**12**	**19**	**27**	**15**	**32**	**21**	**55**	**30**
1998	4	1	19	61	40	88	63	78	45

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Boston Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1998	5	29	15	89	67	85	59	69	58
1998	6	26	14	88	70	87	69	82	68
1998	***7***	***22***	***17***	***93***	***73***	***90***	***72***	***84***	***69***
1998	8	24	14	92	70	80	65	79	63
1998	9	15	20	80	65	70	59	72	61
1998	10	28	18	63	43	53	39	53	46
1998	11	17	18	47	37	51	40	58	43
1998	12	30	19	40	12	41	36	43	32
1999	**1**	**14**	**18**	**15**	**4**	**44**	**14**	**45**	**19**
1999	2	22	19	25	13	34	26	37	31
1999	3	8	19	29	13	33	16	37	26
1999	4	1	20	56	43	71	42	56	46
1999	5	24	18	65	54	68	52	66	54
1999	6	28	15	93	72	91	73	91	69
1999	***7***	***6***	***14***	***88***	***68***	***97***	***81***	***91***	***75***
1999	8	17	17	89	69	80	62	72	62
1999	9	9	17	83	72	79	72	84	71
1999	10	20	19	53	47	49	35	62	42
1999	11	30	18	37	28	45	36	49	41
1999	12	20	18	52	28	35	24	38	29
2000	**1**	**17**	**18**	**17**	**1**	**40**	**14**	**18**	**1**
2000	2	2	19	29	19	35	27	37	31
2000	3	20	19	39	32	36	26	31	17
2000	4	26	20	41	35	47	39	52	42
2000	5	8	15	84	58	90	50	70	50
2000	6	27	13	90	67	82	69	86	65
2000	7	10	15	86	70	81	65	77	56
2000	***8***	***8***	***14***	***87***	***75***	***88***	***68***	***80***	***64***
2000	9	1	15	86	73	86	69	74	59
2000	10	30	18	43	33	39	34	61	36
2000	11	30	18	42	36	49	41	49	43
2000	**12**	**20**	**19**	**33**	**26**	**38**	**28**	**40**	**32**
2001	1	10	19	26	13	33	24	37	26
2001	2	12	19	28	10	25	15	51	26
2001	3	1	19	29	19	33	23	42	29
2001	4	2	20	41	32	36	34	43	35
2001	5	4	15	89	73	91	70	91	60
2001	6	20	17	90	69	88	68	83	67
2001	7	25	17	94	79	93	73	89	66
2001	***8***	***9***	***15***	***96***	***80***	***85***	***75***	***93***	***76***
2001	9	10	16	86	67	86	65	86	64
2001	10	4	20	83	62	80	53	76	48
2001	11	29	18	49	40	61	42	53	48
2001	**12**	**17**	**18**	**42**	**30**	**38**	**29**	**47**	**33**
2002	1	2	18	38	23	34	24	32	23
2002	2	11	19	53	16	53	25	37	28
2002	3	5	19	32	22	46	26	60	39
2002	4	17	15	93	55	72	45	57	45
2002	5	31	14	82	64	82	60	68	55
2002	6	27	15	91	72	92	68	84	65
2002	7	23	15	96	74	89	67	84	63
2002	***8***	***14***	***14***	***101***	***76***	***97***	***73***	***90***	***70***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Boston Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2002	9	9	17	90	68	89	64	79	62
2002	10	2	20	85	65	80	60	70	54
2002	11	18	18	42	35	46	36	49	37
2002	12	9	19	27	12	41	27	38	20
2003	**1**	**22**	**19**	**18**	**7**	**21**	**10**	**30**	**16**
2003	2	13	19	19	10	32	15	31	17
2003	3	3	19	38	11	41	33	40	24
2003	4	1	19	44	28	38	31	55	35
2003	5	20	14	82	51	75	52	64	39
2003	***6***	***27***	***14***	***93***	***73***	***86***	***73***	***89***	***64***
2003	7	8	17	91	69	81	68	93	78
2003	8	22	15	93	73	90	73	89	69
2003	9	15	20	73	63	76	64	70	58
2003	10	27	18	66	56	63	49	56	33
2003	11	17	18	45	37	47	31	44	32
2003	12	15	18	41	30	38	17	32	19
2004	**1**	**15**	**19**	**8**	**-5**	**8**	**-4**	**40**	**8**
2004	2	3	19	41	23	36	23	35	15
2004	3	16	19	38	27	52	37	43	25
2004	4	1	19	43	39	41	38	40	33
2004	5	12	21	73	57	85	55	65	47
2004	6	9	17	93	70	87	53	66	50
2004	7	22	16	87	69	81	69	87	67
2004	***8***	***30***	***16***	***87***	***66***	***88***	***70***	***91***	***70***
2004	9	9	20	85	69	79	66	84	69
2004	10	19	19	50	47	58	44	57	46
2004	11	9	18	40	28	59	36	66	45
2004	**12**	**20**	**19**	**39**	**6**	**43**	**30**	**37**	**21**
2005	1	18	19	13	4	24	12	31	22
2005	2	1	19	32	15	28	19	36	25
2005	3	9	19	24	11	45	16	46	35
2005	4	4	21	53	40	53	42	49	37
2005	5	25	20	48	41	47	44	52	45
2005	6	13	17	90	75	89	71	88	70
2005	***7***	***27***	***16***	***94***	***71***	***94***	***69***	***83***	***67***
2005	8	5	15	97	71	80	67	87	67
2005	9	14	17	86	65	76	65	91	63
2005	10	7	13	81	64	79	61	73	57
2005	11	23	18	37	26	49	37	58	41
2005	12	14	19	25	10	22	13	40	26
2006	1	16	18	32	10	41	11	59	42
2006	2	27	19	22	7	23	13	28	19
2006	3	2	19	35	23	33	18	28	16
2006	4	5	20	39	33	51	37	52	39
2006	5	31	17	79	54	70	55	84	62
2006	6	19	15	93	72	91	64	85	68
2006	7	18	17	96	71	92	70	85	68
2006	***8***	***2***	***17***	***98***	***78***	***94***	***77***	***80***	***66***
2006	9	19	20	82	63	83	62	77	61
2006	10	4	20	77	58	76	50	68	50
2006	11	28	18	54	39	62	43	58	36
2006	12	8	18	34	20	54	34	46	25

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Boston Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
Year	Month	Day	Hour	Maximum Temperature	Minimum Temperature	Maximum Temperature	Minimum Temperature	Maximum Temperature	Minimum Temperature
2007	1	26	19	13	3	28	7	42	25
2007	**2**	**5**	**19**	**19**	**10**	**25**	**15**	**35**	**22**
2007	3	6	19	23	6	39	22	41	30
2007	4	4	20	39	22	44	36	41	38
2007	5	25	16	92	70	80	53	73	50
2007	***6***	***27***	***15***	***96***	***76***	***95***	***67***	***89***	***65***
2007	7	27	15	92	73	92	68	90	66
2007	8	3	15	95	75	94	70	82	71
2007	9	7	17	94	65	78	58	73	59
2007	10	4	20	86	62	70	60	65	50
2007	11	19	18	40	34	43	34	43	33
2007	12	17	19	36	19	43	22	34	17
2008	***1***	***3***	***19***	***14***	***7***	***33***	***10***	***40***	***28***
2008	2	11	19	26	12	43	16	37	23
2008	3	3	19	49	26	41	28	25	11
2008	4	7	20	43	36	42	39	54	39
2008	5	27	14	83	57	80	53	71	55
2008	***6***	***10***	***17***	***95***	***63***	***95***	***66***	***93***	***77***
2008	7	9	15	90	73	90	73	87	69
2008	8	1	16	80	68	80	65	85	68
2008	9	5	15	89	69	88	65	75	61
2008	10	29	19	46	36	54	40	61	46
2008	11	19	19	33	23	40	27	48	36
2008	***12***	***8***	***19***	***25***	***14***	***37***	***25***	***37***	***27***
2009	1	15	19	17	10	37	14	36	19
2009	2	5	19	20	8	26	13	35	24
2009	3	2	19	25	19	30	22	51	32
2009	4	28	16	93	59	64	50	87	52
2009	5	22	16	89	59	92	59	80	52
2009	6	26	13	84	66	74	60	64	56
2009	7	28	17	86	70	87	72	86	70
2009	***8***	***18***	***14***	***95***	***72***	***94***	***72***	***87***	***71***
2009	9	23	20	81	65	76	56	70	51
2009	10	28	19	51	47	52	43	57	45
2009	11	30	18	56	39	54	40	53	42
2009	***12***	***29***	***19***	***31***	***12***	***42***	***30***	***54***	***36***
2010	1	29	19	21	10	37	20	43	32
2010	2	10	18	36	29	41	23	33	22
2010	3	3	19	38	34	43	36	48	34
2010	4	7	21	90	45	67	47	72	49
2010	5	26	17	94	58	85	63	81	56
2010	6	28	15	94	65	76	65	86	68
2010	***7***	***6***	***15***	***100***	***75***	***89***	***77***	***95***	***73***
2010	8	31	17	96	75	92	71	94	66
2010	9	2	16	95	73	94	77	96	75
2010	10	1	12	84	58	81	64	83	67
2010	11	29	19	46	35	45	28	43	32
2010	12	15	18	23	18	37	21	57	37

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Worcester Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1994	**1**	**19**	**19**	**3**	**-7**	**34**	**-2**	**44**	**-1**
1994	2	8	19	8	3	30	10	33	21
1994	3	2	19	28	15	29	10	24	6
1994	4	4	11	52	37	58	35	47	29
1994	5	31	14	77	58	76	54	71	45
1994	6	17	15	87	63	83	62	79	65
1994	***7***	***21***	***14***	***88***	***70***	***87***	***68***	***84***	***64***
1994	8	4	15	83	67	81	68	83	68
1994	9	13	20	76	60	69	48	63	45
1994	10	26	19	52	42	62	43	61	46
1994	11	28	18	59	28	31	17	38	20
1994	12	12	18	24	12	38	23	36	31
1995	1	11	18	13	7	25	13	29	16
1995	**2**	**6**	**19**	**5**	**-4**	**18**	**-1**	**30**	**17**
1995	3	9	19	35	14	58	38	46	35
1995	4	5	21	26	13	53	20	47	28
1995	5	31	17	80	55	68	55	64	48
1995	6	19	17	88	67	84	63	80	56
1995	***7***	***26***	***14***	***84***	***72***	***80***	***69***	***83***	***66***
1995	8	16	17	86	66	80	64	79	66
1995	9	1	14	80	65	81	59	76	56
1995	10	31	18	42	33	47	31	48	38
1995	11	29	18	30	24	57	30	42	30
1995	**12**	**14**	**18**	**19**	**11**	**23**	**10**	**20**	**8**
1996	1	3	18	17	11	28	18	32	27
1996	2	5	19	12	-7	9	-2	14	4
1996	3	4	19	24	11	31	16	27	20
1996	4	10	12	34	30	39	27	36	29
1996	5	21	14	85	61	87	69	81	50
1996	6	12	17	79	68	78	67	72	56
1996	7	18	17	83	65	82	67	80	67
1996	***8***	***6***	***15***	***84***	***68***	***82***	***64***	***79***	***63***
1996	9	6	14	81	67	79	68	80	68
1996	10	30	18	53	39	51	38	59	44
1996	11	27	18	27	17	36	28	37	29
1996	12	10	18	33	21	36	24	36	28
1997	**1**	**17**	**18**	**20**	**4**	**45**	**22**	**33**	**18**
1997	2	11	19	28	21	33	19	34	15
1997	3	6	19	36	29	63	31	32	27
1997	4	9	21	31	22	43	28	70	41
1997	5	9	12	49	41	58	33	47	36
1997	6	30	17	84	63	85	65	81	64
1997	***7***	***14***	***17***	***84***	***68***	***81***	***62***	***82***	***62***
1997	8	11	15	82	63	85	65	79	60
1997	9	2	21	78	62	72	63	77	61
1997	10	28	18	41	33	46	37	44	28
1997	11	25	18	33	16	33	23	29	25
1997	12	15	18	33	12	34	16	33	25
1998	1	15	18	22	13	25	16	43	24
1998	2	5	19	29	24	34	28	41	0
1998	**3**	**12**	**19**	**21**	**9**	**25**	**14**	**53**	**22**
1998	4	1	19	62	37	84	62	79	46

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Worcester Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1998	5	29	15	83	62	80	57	73	54
1998	6	26	14	83	69	82	66	80	66
1998	***7***	***22***	***17***	***85***	***69***	***84***	***66***	***81***	***66***
1998	8	24	14	86	65	76	63	78	61
1998	9	15	20	81	63	66	58	73	59
1998	10	28	18	58	40	50	38	53	41
1998	11	17	18	41	34	46	37	53	39
1998	12	30	19	32	6	36	31	40	32
1999	**1**	**14**	**18**	**10**	**2**	**46**	**12**	**40**	**13**
1999	2	22	19	22	8	31	19	37	26
1999	3	8	19	26	9	25	12	34	23
1999	4	1	20	65	49	69	39	52	41
1999	5	24	18	61	51	62	52	75	56
1999	6	28	15	88	70	89	66	85	64
1999	***7***	***6***	***14***	***90***	***70***	***90***	***73***	***85***	***69***
1999	8	17	17	84	65	78	55	68	59
1999	9	9	17	79	69	76	69	80	70
1999	10	20	19	50	43	50	32	58	37
1999	11	30	18	33	22	40	29	46	36
1999	12	20	18	42	23	31	20	33	23
2000	**1**	**17**	**18**	**11**	**-4**	**36**	**10**	**13**	**-1**
2000	2	2	19	23	14	32	21	33	25
2000	3	20	19	40	27	39	22	30	12
2000	4	26	20	38	32	52	37	49	38
2000	5	8	15	86	64	87	54	72	59
2000	6	27	13	81	63	81	67	83	61
2000	7	10	15	82	67	74	60	74	51
2000	***8***	***8***	***14***	***81***	***68***	***82***	***64***	***74***	***59***
2000	9	1	15	81	69	81	66	74	56
2000	10	30	18	37	29	33	28	61	33
2000	11	30	18	35	30	44	35	44	37
2000	**12**	**20**	**19**	**28**	**19**	**33**	**21**	**33**	**25**
2001	1	10	19	20	7	30	18	34	25
2001	2	12	19	26	4	18	9	47	19
2001	3	1	19	24	13	26	16	36	24
2001	4	2	20	39	24	33	29	37	31
2001	5	4	15	85	66	87	64	87	66
2001	6	20	17	84	63	83	62	77	61
2001	7	25	17	90	73	89	70	85	62
2001	***8***	***9***	***15***	***91***	***74***	***89***	***74***	***88***	***71***
2001	9	10	16	80	65	82	64	82	62
2001	10	4	20	77	59	75	56	68	50
2001	11	29	18	43	32	57	38	51	43
2001	**12**	**17**	**18**	**32**	**27**	**35**	**24**	**44**	**28**
2002	1	2	18	32	16	29	16	26	15
2002	2	11	19	50	13	48	24	37	24
2002	3	5	19	27	14	36	19	57	34
2002	4	17	15	89	60	84	53	71	48
2002	5	31	14	77	60	77	60	73	58
2002	6	27	15	85	66	89	63	79	63
2002	7	23	15	88	68	84	63	79	61
2002	***8***	***14***	***14***	***93***	***70***	***101***	***76***	***98***	***73***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Worcester Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2002	9	9	17	88	68	88	60	84	60
2002	10	2	20	79	61	80	60	75	56
2002	11	18	18	35	30	32	26	34	25
2002	12	9	19	22	5	36	22	32	12
2003	**1**	**22**	**19**	**10**	**1**	**13**	**2**	**22**	**9**
2003	2	13	19	13	1	25	7	27	8
2003	3	3	19	33	2	36	30	37	20
2003	4	1	19	36	21	34	25	50	29
2003	5	20	14	80	58	78	51	69	42
2003	***6***	***27***	***14***	***88***	***66***	***89***	***73***	***88***	***69***
2003	7	8	17	84	68	85	67	87	71
2003	8	22	15	86	66	83	66	83	63
2003	9	15	20	76	65	80	60	72	54
2003	10	27	18	63	51	60	50	53	30
2003	11	17	18	39	35	42	26	37	26
2003	12	15	18	33	23	33	13	27	15
2004	**1**	**15**	**19**	**3**	**-12**	**2**	**-9**	**34**	**2**
2004	2	3	19	33	20	36	16	29	9
2004	3	16	19	33	22	46	32	40	20
2004	4	1	19	41	36	38	33	44	27
2004	5	12	21	85	63	81	59	73	50
2004	6	9	17	88	66	85	64	76	48
2004	7	22	16	83	66	83	65	81	67
2004	***8***	***30***	***16***	***83***	***69***	***85***	***68***	***86***	***68***
2004	9	9	20	79	69	79	69	79	63
2004	10	19	19	44	41	52	37	51	39
2004	11	9	18	35	23	54	29	64	41
2004	**12**	**20**	**19**	**31**	**0**	**37**	**26**	**34**	**14**
2005	1	18	19	8	-1	22	7	23	18
2005	2	1	19	36	15	28	15	37	22
2005	3	9	19	17	4	42	11	46	29
2005	4	4	21	48	35	53	36	54	35
2005	5	25	20	47	42	45	41	52	43
2005	6	13	17	87	71	85	70	87	68
2005	***7***	***27***	***16***	***92***	***65***	***89***	***66***	***82***	***66***
2005	8	5	15	90	68	86	67	87	70
2005	9	14	17	86	62	87	65	85	60
2005	10	7	13	75	65	75	61	76	54
2005	11	23	18	30	18	46	30	54	38
2005	12	14	19	21	4	19	8	34	18
2006	1	16	18	23	18	26	19	59	26
2006	2	27	19	18	2	20	8	22	12
2006	3	2	19	28	18	28	10	23	9
2006	4	5	20	39	29	44	31	56	38
2006	5	31	17	82	54	79	58	82	62
2006	6	19	15	87	68	89	64	76	60
2006	7	18	17	91	73	91	73	89	69
2006	***8***	***2***	***17***	***93***	***73***	***91***	***72***	***84***	***64***
2006	9	19	20	76	61	78	58	77	61
2006	10	4	20	74	57	72	47	64	49
2006	11	28	18	51	36	61	47	55	37
2006	12	8	18	27	14	49	27	41	18

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Massachusetts Electric Company
Historical Peak Day Temperatures - Worcester Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2007	1	26	19	13	3	28	7	42	25
2007	**2**	**5**	**19**	**19**	**10**	**25**	**15**	**35**	**22**
2007	3	6	19	23	6	39	22	41	30
2007	4	4	20	39	22	44	36	41	38
2007	5	25	16	92	70	80	53	73	50
2007	***6***	***27***	***15***	***96***	***76***	***95***	***67***	***89***	***65***
2007	7	27	15	92	73	92	68	90	66
2007	8	3	15	95	75	94	70	82	71
2007	9	7	17	94	65	78	58	73	59
2007	10	4	20	86	62	70	60	65	50
2007	11	19	18	40	34	43	34	43	33
2007	12	17	19	36	19	43	22	34	17
2008	***1***	***3***	***19***	***14***	***7***	***33***	***10***	***40***	***28***
2008	2	11	19	26	12	43	16	37	23
2008	3	3	19	49	26	41	28	25	11
2008	4	7	20	43	36	42	39	54	39
2008	5	27	14	83	57	80	53	71	55
2008	***6***	***10***	***17***	***95***	***63***	***95***	***66***	***93***	***77***
2008	7	9	15	90	73	90	73	87	69
2008	8	1	16	80	68	80	65	85	68
2008	9	5	15	89	69	88	65	75	61
2008	10	29	19	46	36	54	40	61	46
2008	11	19	19	33	23	40	27	48	36
2008	***12***	***8***	***19***	***25***	***14***	***37***	***25***	***37***	***27***
2009	1	15	19	17	10	37	14	36	19
2009	2	5	19	20	8	26	13	35	24
2009	3	2	19	25	19	30	22	51	32
2009	4	28	16	93	59	64	50	87	52
2009	5	22	16	89	59	92	59	80	52
2009	6	26	13	84	66	74	60	64	56
2009	7	28	17	86	70	87	72	86	70
2009	***8***	***18***	***14***	***95***	***72***	***94***	***72***	***87***	***71***
2009	9	23	20	81	65	76	56	70	51
2009	10	28	19	51	47	52	43	57	45
2009	11	30	18	56	39	54	40	53	42
2009	***12***	***29***	***19***	***31***	***12***	***42***	***30***	***54***	***36***
2010	1	29	19	21	10	37	20	43	32
2010	2	10	18	36	29	41	23	33	22
2010	3	3	19	38	34	43	36	48	34
2010	4	7	21	90	45	67	47	72	49
2010	5	26	17	94	58	85	63	81	56
2010	6	28	15	94	65	76	65	86	68
2010	***7***	***6***	***15***	***100***	***75***	***89***	***77***	***95***	***73***
2010	8	31	17	96	75	92	71	94	66
2010	9	2	16	95	73	94	77	96	75
2010	10	1	12	84	58	81	64	83	67
2010	11	29	19	46	35	45	28	43	32
2010	12	15	18	23	18	37	21	57	37

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Narragansett Electric Company
Historical Peak Day Temperatures - Providence Weather Station

Narragansett Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1994	**1**	**19**	**18**	**9**	**1**	**45**	**6**	**45**	**3**
1994	2	8	18	17	10	41	18	39	28
1994	3	2	19	33	17	33	18	29	12
1994	4	4	11	59	37	60	39	47	35
1994	5	23	15	83	48	72	45	70	40
1994	6	27	15	82	65	84	66	78	62
1994	***7***	***21***	***15***	***92***	***73***	***86***	***69***	***84***	***65***
1994	8	4	15	89	69	82	70	87	72
1994	9	1	14	78	57	72	56	73	55
1994	10	31	18	69	45	73	50	65	41
1994	11	21	18	59	31	50	33	62	43
1994	12	12	18	29	20	49	30	45	38
1995	1	11	18	23	19	31	19	36	22
1995	**2**	**6**	**19**	**14**	**3**	**28**	**6**	**39**	**25**
1995	3	1	19	32	31	35	27	31	20
1995	4	5	21	33	21	62	28	51	31
1995	5	31	14	86	57	76	59	66	55
1995	6	20	14	93	65	92	70	90	64
1995	7	27	15	95	75	87	77	86	74
1995	***8***	***2***	***15***	***93***	***71***	***96***	***70***	***87***	***64***
1995	9	1	15	86	69	84	55	83	63
1995	10	30	18	53	37	55	43	70	54
1995	11	29	18	37	26	65	37	54	36
1995	**12**	**11**	**18**	**25**	**14**	**34**	**17**	**48**	**22**
1996	1	3	18	33	17	33	25	39	29
1996	2	5	19	17	-1	13	5	19	12
1996	3	7	19	33	25	39	31	50	19
1996	4	10	12	38	33	42	30	41	33
1996	5	21	15	92	65	93	57	72	53
1996	6	12	15	79	68	82	67	71	60
1996	7	18	15	88	67	87	71	86	71
1996	***8***	***6***	***15***	***85***	***68***	***81***	***66***	***78***	***64***
1996	9	5	17	86	67	79	63	87	66
1996	10	8	19	60	45	62	41	56	36
1996	11	27	18	33	21	59	34	49	36
1996	12	16	18	43	38	43	38	43	38
1997	**1**	**27**	**18**	**34**	**15**	**35**	**20**	**53**	**36**
1997	2	11	19	34	28	41	20	39	23
1997	3	31	19	61	47	61	47	53	45
1997	4	2	20	49	35	40	31	61	47
1997	5	19	11	59	49	66	46	64	46
1997	6	26	14	89	70	81	63	77	62
1997	***7***	***15***	***15***	***92***	***69***	***94***	***71***	***88***	***68***
1997	8	1	15	89	67	86	60	80	58
1997	9	2	15	81	66	76	65	76	60
1997	10	28	18	48	35	54	43	49	34
1997	11	24	18	40	31	34	32	49	34
1997	**12**	**15**	**18**	**37**	**19**	**42**	**23**	**40**	**27**
1998	1	15	18	34	16	31	23	48	30
1998	2	5	19	35	30	41	33	53	35
1998	3	12	19	27	15	32	20	57	27
1998	4	1	19	61	42	85	55	77	44
1998	5	29	14	85	65	82	52	72	53

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Narragansett Electric Company
Historical Peak Day Temperatures - Providence Weather Station

Narragansett Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1998	6	26	14	90	71	87	68	78	67
1998	***7***	***22***	***15***	***93***	***68***	***91***	***70***	***82***	***70***
1998	8	24	14	90	72	79	62	82	63
1998	9	16	14	78	66	81	68	70	60
1998	10	1	12	77	50	75	51	67	46
1998	11	17	18	46	38	51	35	60	40
1998	12	30	18	39	13	40	35	41	33
1999	**1**	**14**	**18**	**18**	**10**	**49**	**19**	**46**	**18**
1999	2	22	19	28	15	38	29	40	32
1999	3	8	19	31	15	34	16	39	27
1999	4	5	11	60	32	56	41	49	43
1999	5	19	12	69	61	71	53	70	44
1999	6	28	15	89	71	93	68	91	68
1999	***7***	***19***	***14***	***90***	***69***	***97***	***74***	***97***	***73***
1999	8	13	15	83	69	84	66	75	65
1999	9	7	14	80	73	80	71	82	66
1999	10	20	19	54	50	53	34	62	43
1999	11	30	18	37	28	47	33	50	37
1999	12	14	18	43	39	49	27	46	33
2000	**1**	**17**	**18**	**20**	**3**	**42**	**11**	**19**	**4**
2000	2	2	19	29	19	35	27	41	30
2000	3	20	19	48	31	43	25	33	18
2000	4	26	12	41	36	53	41	56	44
2000	5	9	16	91	51	89	61	91	52
2000	6	27	15	90	66	87	70	84	63
2000	7	10	15	89	72	81	62	77	56
2000	***8***	***8***	***15***	***87***	***72***	***88***	***70***	***79***	***60***
2000	9	1	15	86	71	83	68	75	59
2000	10	30	18	42	34	40	33	61	38
2000	11	30	18	40	36	50	36	51	41
2000	**12**	**13**	**18**	**31**	**18**	**55**	**26**	**41**	**33**
2001	1	10	18	27	15	33	24	36	24
2001	2	12	19	26	10	26	17	52	25
2001	3	1	19	31	20	33	22	44	30
2001	4	2	20	45	33	45	33	45	36
2001	5	4	15	90	64	90	61	89	50
2001	6	28	15	87	72	87	69	87	64
2001	7	25	15	96	76	90	72	89	63
2001	***8***	***9***	***15***	***99***	***74***	***94***	***76***	***94***	***75***
2001	9	10	16	83	65	83	65	82	62
2001	10	4	14	80	58	78	49	73	42
2001	11	29	18	56	41	63	43	54	47
2001	**12**	**17**	**18**	**36**	**30**	**41**	**29**	**49**	**32**
2002	1	31	18	36	32	49	37	69	36
2002	2	5	19	30	19	42	24	37	17
2002	3	18	19	36	30	43	26	55	32
2002	4	17	15	92	56	74	49	72	52
2002	5	31	14	79	62	76	59	72	59
2002	6	27	16	91	73	90	64	80	58
2002	7	30	17	94	73	95	72	75	66
2002	***8***	***14***	***15***	***98***	***73***	***99***	***65***	***97***	***70***
2002	9	9	17	88	60	84	60	89	64
2002	10	2	20	85	66	85	65	79	61

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Narragansett Electric Company
Historical Peak Day Temperatures - Providence Weather Station

Narragansett Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2002	11	27	18	39	23	30	17	31	20
2002	12	17	19	29	22	38	28	46	35
2003	**1**	**22**	**19**	**19**	**8**	**22**	**11**	**33**	**17**
2003	2	13	19	20	3	34	11	30	15
2003	3	3	19	37	10	45	32	39	18
2003	4	7	20	37	29	45	31	37	30
2003	5	20	14	73	45	81	43	70	36
2003	6	26	15	89	72	92	62	81	60
2003	7	8	17	90	69	88	67	89	72
2003	***8***	***22***	***15***	***90***	***71***	***88***	***68***	***87***	***67***
2003	9	16	17	81	63	77	65	79	66
2003	10	27	18	66	56	64	49	56	27
2003	11	17	18	44	40	48	23	44	32
2003	12	15	18	41	30	39	19	33	23
2004	**1**	**15**	**19**	**12**	**-5**	**13**	**1**	**43**	**13**
2004	2	3	19	44	20	38	17	33	12
2004	3	16	19	38	27	52	37	43	25
2004	4	1	19	48	39	57	29	55	31
2004	5	12	15	84	60	86	54	66	44
2004	6	9	17	92	67	85	60	67	51
2004	7	22	16	81	65	85	67	86	68
2004	***8***	***30***	***15***	***84***	***72***	***87***	***69***	***88***	***69***
2004	9	9	13	93	76	89	74	88	72
2004	10	19	19	50	45	59	40	56	42
2004	11	9	18	42	27	57	34	65	37
2004	**12**	**20**	**19**	**37**	**7**	**42**	**28**	**38**	**18**
2005	1	18	19	15	6	29	15	30	23
2005	2	1	19	36	9	31	16	39	24
2005	3	9	19	25	11	44	16	47	32
2005	4	4	21	55	40	56	40	57	39
2005	5	25	12	48	44	50	45	57	45
2005	6	14	14	93	56	92	73	88	67
2005	7	19	16	94	74	82	72	81	68
2005	***8***	***5***	***15***	***99***	***72***	***86***	***68***	***95***	***70***
2005	9	13	16	85	67	91	63	74	51
2005	10	7	13	78	68	76	65	75	59
2005	11	23	18	35	24	50	35	57	35
2005	**12**	**14**	**18**	**25**	**10**	**25**	**14**	**41**	**23**
2006	1	16	18	30	23	33	25	62	33
2006	2	27	19	25	11	28	14	33	19
2006	3	2	19	32	20	35	20	31	13
2006	4	5	20	41	31	52	32	56	35
2006	5	30	15	83	58	82	57	81	61
2006	6	19	15	90	66	86	63	85	61
2006	7	18	15	96	70	92	70	87	69
2006	***8***	***2***	***15***	***100***	***76***	***97***	***75***	***90***	***67***
2006	9	18	15	81	61	80	58	78	58
2006	10	4	20	78	57	75	47	69	50
2006	11	28	18	50	42	65	38	58	30
2006	12	8	18	33	19	57	34	49	20
2007	1	26	19	15	3	33	12	42	21
2007	2	5	19	20	10	26	16	36	21
2007	***3***	***6***	***19***	***22***	***8***	***40***	***22***	***42***	***31***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Narragansett Electric Company
Historical Peak Day Temperatures - Providence Weather Station

Narragansett Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2007	4	4	20	41	36	48	36	44	39
2007	5	25	15	93	66	81	51	71	46
2007	6	27	15	95	72	95	64	88	62
2007	7	10	16	86	66	81	66	91	65
2007	***8***	***3***	***15***	***93***	***71***	***93***	***67***	***89***	***68***
2007	9	7	16	89	65	74	56	80	52
2007	10	4	15	82	64	72	64	73	47
2007	11	19	18	44	32	46	32	44	31
2007	12	17	19	36	20	39	22	33	22
2008	***1***	***3***	***19***	***17***	***8***	***34***	***13***	***44***	***23***
2008	2	11	19	27	11	47	16	38	22
2008	3	3	19	50	23	43	27	42	27
2008	4	7	20	49	37	44	39	55	44
2008	5	27	15	78	59	77	52	76	50
2008	***6***	***10***	***15***	***96***	***70***	***97***	***74***	***94***	***74***
2008	7	21	15	90	71	94	72	96	72
2008	8	1	16	86	69	81	67	86	70
2008	9	5	15	85	68	87	64	81	56
2008	10	22	19	47	40	63	32	59	37
2008	11	19	18	34	23	41	27	48	33
2008	***12***	***8***	***18***	***24***	***14***	***34***	***22***	***37***	***21***
2009	1	15	18	17	10	36	15	37	14
2009	2	5	19	20	8	27	15	36	26
2009	3	2	19	25	18	32	24	52	32
2009	4	28	15	89	51	68	52	88	52
2009	5	22	15	84	59	85	54	78	48
2009	6	30	15	79	62	76	64	72	61
2009	7	30	17	87	72	81	72	84	69
2009	***8***	***18***	***15***	***94***	***69***	***87***	***70***	***89***	***67***
2009	9	24	14	83	60	78	62	75	53
2009	10	15	19	44	36	53	37	58	40
2009	11	23	18	50	44	54	40	59	38
2009	***12***	***29***	***19***	***31***	***13***	***45***	***25***	***54***	***32***
2010	1	29	19	21	11	36	19	44	27
2010	2	8	19	34	19	35	13	29	19
2010	3	3	19	37	34	50	36	48	35
2010	4	7	21	92	49	69	48	71	47
2010	5	26	17	96	65	83	59	75	59
2010	6	28	15	95	72	87	67	86	65
2010	***7***	***6***	***16***	***102***	***73***	***97***	***68***	***94***	***66***
2010	8	31	16	94	69	90	65	93	62
2010	9	1	16	95	70	94	69	90	65
2010	10	1	12	79	58	79	67	82	66
2010	11	29	18	48	27	44	27	43	28
2010	12	15	18	24	15	31	20	56	31

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Nantucket Electric Company
Historical Peak Day Temperatures - Nantucket Weather Station

Nantucket Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1999	**1**	**1**	**19**	**29**	**14**	**25**	**16**	**46**	**17**
1999	2	22	19	32	19	38	27	37	34
1999	3	7	20	41	20	46	26	40	28
1999	4	23	20	53	44	50	43	56	41
1999	5	30	21	73	52	65	54	66	48
1999	6	30	19	75	65	71	67	73	66
1999	7	19	20	77	67	79	68	77	68
1999	***8***	***13***	***21***	***78***	***69***	***77***	***67***	***72***	***65***
1999	9	4	20	78	63	75	58	75	54
1999	10	7	20	51	39	61	46	54	51
1999	11	30	19	40	33	46	38	50	41
1999	12	1	18	37	32	40	33	46	38
2000	**1**	**17**	**18**	**27**	**7**	**44**	**5**	**18**	**6**
2000	2	2	20	31	21	36	31	43	32
2000	3	18	19	33	26	54	30	56	45
2000	4	26	20	42	38	50	40	57	43
2000	5	29	11	54	43	63	45	67	52
2000	6	30	22	66	58	67	59	74	58
2000	7	3	19	74	62	72	55	76	55
2000	***8***	***9***	***20***	***75***	***66***	***74***	***66***	***73***	***66***
2000	9	1	20	78	66	77	67	74	62
2000	10	9	11	51	43	57	48	61	48
2000	11	24	19	31	22	35	26	36	31
2000	**12**	**2**	**19**	**34**	**28**	**42**	**34**	**43**	**38**
2001	1	10	8	26	18	38	24	43	29
2001	2	11	19	27	19	53	27	47	32
2001	3	7	19	34	32	41	36	41	32
2001	4	18	13	45	36	49	40	51	36
2001	5	27	12	65	55	64	46	62	48
2001	6	30	20	74	64	72	61	84	69
2001	7	25	19	77	69	73	67	76	63
2001	***8***	***10***	***19***	***78***	***71***	***85***	***69***	***88***	***68***
2001	9	1	11	79	63	76	66	74	60
2001	10	8	11	52	41	59	45	70	54
2001	11	21	19	43	28	59	39	58	49
2001	**12**	**31**	**19**	**34**	**28**	**35**	**28**	**43**	**31**
2002	1	3	19	36	29	37	25	37	19
2002	2	5	19	35	23	42	32	40	18
2002	3	22	19	43	24	46	37	47	32
2002	4	22	20	46	38	53	44	69	48
2002	5	18	13	53	43	60	51	61	48
2002	6	29	21	77	58	72	63	71	65
2002	7	4	19	80	66	85	67	76	65
2002	***8***	***17***	***21***	***92***	***71***	***77***	***70***	***80***	***70***
2002	9	2	11	69	63	67	59	67	55
2002	10	12	19	59	57	61	56	61	44
2002	11	27	19	46	27	52	40	51	39
2002	12	3	19	37	21	46	29	42	29
2003	**1**	**22**	**19**	**21**	**11**	**22**	**14**	**32**	**19**
2003	2	15	19	20	13	20	12	20	13
2003	3	3	20	36	14	49	33	36	21
2003	4	8	11	37	32	38	32	44	28

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Nantucket Electric Company
Historical Peak Day Temperatures - Nantucket Weather Station

Nantucket Electric				Day of Monthly Peak		One Day Prior		Two Days Prior	
Monthly Peak Information				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2003	5	24	19	59	50	54	49	53	48
2003	6	30	21	69	62	68	60	77	60
2003	7	26	19	79	65	76	65	74	68
2003	***8***	***8***	***20***	***77***	***68***	***75***	***68***	***78***	***68***
2003	9	2	12	62	57	68	52	68	49
2003	10	23	19	45	39	62	46	67	55
2003	11	14	19	42	36	59	42	56	52
2003	12	7	18	45	31	47	33	36	21
2004	**1**	**16**	**10**	**33**	**22**	**27**	**20**	**30**	**20**
2004	2	8	19	30	21	47	30	47	30
2004	3	19	19	33	29	33	28	34	31
2004	4	28	10	54	37	51	42	52	42
2004	5	28	18	57	47	61	48	54	45
2004	6	30	21	72	62	72	59	73	59
2004	7	31	19	75	66	72	63	73	64
2004	***8***	***20***	***19***	***75***	***69***	***74***	***67***	***71***	***55***
2004	9	4	20	78	61	71	53	71	55
2004	10	21	19	53	48	55	51	53	45
2004	11	13	19	45	39	50	44	54	42
2004	**12**	**20**	**19**	**42**	**13**	**45**	**33**	**44**	**23**
2005	1	18	19	18	10	32	18	36	28
2005	2	24	19	31	23	40	30	40	32
2005	3	9	8	26	16	47	19	43	39
2005	4	12	21	44	32	45	32	58	31
2005	5	25	19	51	45	48	44	56	43
2005	6	27	21	72	61	71	61	70	60
2005	7	22	19	84	65	84	63	88	63
2005	***8***	***14***	***19***	***81***	***70***	***79***	***70***	***78***	***67***
2005	9	1	20	82	66	80	68	74	68
2005	10	8	19	72	67	74	64	70	62
2005	11	25	19	42	26	52	28	40	32
2005	**12**	**14**	**18**	**27**	**21**	**34**	**24**	**44**	**30**
2006	1	16	19	36	28	37	28	55	37
2006	2	27	19	23	13	33	16	35	24
2006	3	3	20	31	21	38	26	32	23
2006	4	8	20	50	38	52	35	48	36
2006	5	1	20	50	43	55	41	53	40
2006	6	30	19	71	63	71	64	73	63
2006	7	29	19	81	69	76	69	75	64
2006	***8***	***3***	***19***	***86***	***71***	***88***	***74***	***82***	***69***
2006	9	2	20	66	61	69	54	69	55
2006	10	6	20	60	50	66	49	70	62
2006	11	22	18	49	43	47	36	48	40
2006	12	8	19	33	19	57	34	49	20
2007	***1***	***26***	***19***	***17***	***7***	***33***	***17***	***39***	***26***
2007	2	5	19	22	13	32	22	42	28
2007	3	6	20	26	12	38	25	41	32
2007	4	12	18	47	37	45	32	45	33
2007	5	18	19	47	43	54	43	60	53
2007	6	30	19	71	64	71	64	73	63
2007	7	30	19	75	67	77	67	77	68
2007	***8***	***3***	***19***	***79***	***68***	***78***	***60***	***82***	***61***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Nantucket Electric Company
Historical Peak Day Temperatures - Nantucket Weather Station

Nantucket Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2007	9	1	20	73	56	78	65	76	56
2007	10	6	19	68	62	70	62	71	63
2007	11	30	19	55	42	52	47	55	47
2007	***12***	***1***	***18***	***44***	***22***	***49***	***36***	***52***	***41***
2008	1	3	19	22	14	39	22	48	25
2008	2	11	19	25	14	46	20	39	30
2008	3	19	19	46	33	45.5	31	39.5	29
2008	4	7	20	42	38	45	42	40	28
2008	5	23	21	65	47	58	46	56	43
2008	6	28	19	78	59	77	62	70	62
2008	7	19	19	82	68	80	67	74	57
2008	***8***	***2***	***19***	***79***	***66***	***82***	***66***	***76***	***67***
2008	9	6	13	75	69	76	67	75	61
2008	10	1	20	69	59	66	56	69	60
2008	11	22	18	29	24	35	26	35	24
2008	12	8	19	28	15	42	28	43	27
2009	***1***	***1***	***19***	***22***	***10***	***35***	***12***	***42***	***29***
2009	2	5	19	22	16	29	21	40	29
2009	3	2	19	35	26	37	33	49	35
2009	4	11	20	50	40	54	37	49	38
2009	5	24	21	61	51	65	49	63	53
2009	6	27	19	73	57	66	57	67	57
2009	7	31	19	75	66	73	67	75	67
2009	8	21	19	78	70	77	68	78	68
2009	9	5	20	77	56	73	58	69	51
2009	10	16	19	49	44	51	35	51	40
2009	11	28	18	52	44	50	43	52	48
2009	12	29	19	33	16	44	33	51	35
2010	***1***	***29***	***19***	***23***	***15***	***42***	***22***	***40***	***31***
2010	2	6	19	31	26	36	26	33	27
2010	3	3	19	37	32	41	35	42	33
2010	4	27	12	53	42	53	46	51	46
2010	5	29	20	64	53	67	45	65	50
2010	6	29	18	78	67	75	66	71	64
2010	7	6	18	91	64	85	63	90	65
2010	***8***	***6***	***18***	***86***	***67***	***76***	***70***	***78***	***68***
2010	9	1	16	86	65	87	67	84	64
2010	10	1	19	75	61	76	67	74	66
2010	11	27	18	44	34	56	37	42	34
2010	12	15	19	24	19	40	23	56	40

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Granite State Electric Company
Historical Peak Day Temperatures - Concord Weather Station

Mass Electric				Day of Monthly Peak		One Day Prior		Two Days Prior	
Monthly Peak Information				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1994	**1**	**19**	**18**	**6**	**-21**	**26**	**-2**	**28**	**-4**
1994	2	9	18	8	3	7	-4	32	2
1994	3	1	19	28	-5	23	7	19	4
1994	4	6	20	55	44	63	23	56	30
1994	5	31	14	86	58	83	57	75	35
1994	6	17	15	96	63	88	59	83	62
1994	***7***	***21***	***14***	***94***	***66***	***91***	***60***	***88***	***65***
1994	8	4	15	89	64	87	64	88	63
1994	9	14	15	77	56	79	56	74	54
1994	10	20	19	61	54	65	47	60	32
1994	11	28	18	36	28	34	7	42	18
1994	12	12	18	21	8	42	22	41	32
1995	1	11	18	11	3	23	4	32	11
1995	**2**	**6**	**19**	**5**	**-7**	**20**	**-3**	**28**	**15**
1995	3	9	20	35	17	64	36	37	27
1995	4	5	21	26	14	48	25	52	15
1995	5	31	15	85	46	72	52	72	50
1995	6	19	17	97	65	90	55	85	48
1995	***7***	***26***	***14***	***90***	***69***	***86***	***67***	***86***	***69***
1995	8	2	12	88	66	95	58	91	54
1995	9	1	12	83	57	81	44	79	51
1995	10	30	18	50	33	53	39	68	50
1995	11	29	18	29	22	54	28	39	27
1995	**12**	**14**	**18**	**17**	**-3**	**25**	**-5**	**22**	**-1**
1996	1	5	18	13	-15	13	-4	16	11
1996	2	13	19	10	-1	31	1	33	26
1996	3	4	19	25	9	29	4	27	10
1996	4	10	12	36	32	44	28	35	29
1996	5	21	14	83	57	91	55	80	52
1996	6	12	14	87	65	86	66	68	58
1996	7	8	15	86	62	80	51	84	58
1996	***8***	***8***	***14***	***87***	***67***	***88***	***63***	***88***	***60***
1996	9	4	15	85	56	86	63	75	63
1996	10	30	18	44	30	51	32	59	46
1996	11	25	18	31	26	36	21	46	23
1996	12	10	18	36	16	39	16	40	23
1997	**1**	**17**	**18**	**23**	**4**	**42**	**27**	**36**	**23**
1997	2	13	19	27	3	33	14	30	6
1997	3	6	19	36	27	49	27	34	29
1997	4	9	21	29	21	38	29	68	42
1997	5	29	15	80	43	79	36	67	34
1997	6	30	15	92	58	91	56	89	48
1997	***7***	***28***	***13***	***87***	***70***	***89***	***58***	***85***	***51***
1997	8	11	14	90	64	94	59	88	61
1997	9	2	16	81	64	77	63	76	54
1997	10	28	18	45	35	46	39	47	24
1997	11	25	18	32	17	36	22	31	25
1997	**12**	**15**	**18**	**30**	**11**	**39**	**15**	**37**	**28**
1998	1	15	18	23	11	27	11	41	22
1998	2	5	19	35	28	38	21	44	27
1998	3	12	19	23	8	27	14	56	22
1998	4	1	19	66	39	89	50	82	34

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Granite State Electric Company
Historical Peak Day Temperatures - Concord Weather Station

Mass Electric				Day of Monthly Peak		One Day Prior		Two Days Prior	
Monthly Peak Information				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
1998	5	29	15	89	60	85	47	76	38
1998	6	25	15	86	63	85	67	77	64
1998	***7***	***22***	***17***	***92***	***64***	***89***	***60***	***84***	***65***
1998	8	10	15	85	66	86	59	86	66
1998	9	21	17	81	61	83	53	79	51
1998	10	28	18	62	31	53	25	53	27
1998	11	17	18	35	32	47	33	55	37
1998	12	30	18	34	4	34	18	40	28
1999	**1**	**14**	**18**	**6**	**-1**	**31**	**5**	**33**	**11**
1999	2	22	19	19	4	33	17	36	27
1999	3	8	19	26	8	23	13	28	19
1999	4	1	19	69	29	68	26	53	32
1999	5	18	14	73	46	74	37	74	36
1999	6	28	14	91	69	92	59	89	57
1999	***7***	***6***	***14***	***95***	***69***	***95***	***72***	***89***	***70***
1999	8	17	17	86	62	80	54	69	60
1999	9	9	15	86	65	81	65	86	71
1999	10	20	19	47	38	49	24	59	37
1999	11	30	18	35	22	42	26	47	29
1999	12	20	18	40	10	32	9	32	19
2000	**1**	**17**	**18**	**7**	**-6**	**29**	**2**	**16**	**-1**
2000	2	2	19	24	10	32	20	36	27
2000	3	13	19	34	19	38	31	35	31
2000	4	26	12	43	34	57	30	50	40
2000	5	9	14	88	50	84	60	93	47
2000	6	27	13	84	63	81	68	89	61
2000	7	10	14	85	63	80	55	78	47
2000	8	9	15	87	61	86	65	83	62
2000	***9***	***1***	***15***	***88***	***66***	***86***	***62***	***79***	***51***
2000	10	30	18	45	35	35	31	56	35
2000	11	30	18	41	32	46	31	47	36
2000	**12**	**13**	**18**	**26**	**12**	**48**	**19**	**40**	**29**
2001	1	10	18	16	2	28	15	31	8
2001	2	22	19	19	2	39	11	47	29
2001	3	1	19	23	7	24	11	36	22
2001	4	24	15	87	52	80	47	81	52
2001	5	11	16	85	44	81	40	77	36
2001	6	27	16	89	62	88	60	83	59
2001	7	24	15	93	71	90	59	87	57
2001	***8***	***9***	***14***	***97***	***68***	***95***	***70***	***95***	***63***
2001	9	10	15	84	61	90	56	90	50
2001	10	4	14	81	48	78	41	74	35
2001	11	29	18	35	31	55	35	52	35
2001	**12**	**17**	**18**	**32**	**21**	**33**	**23**	**39**	**26**
2002	1	21	18	29	11	34	6	27	6
2002	2	11	19	34	7	32	5	32	13
2002	3	26	19	34	31	39	21	40	27
2002	4	17	15	93	53	88	45	65	44
2002	5	31	15	83	57	81	59	75	58
2002	6	27	15	88	68	90	59	84	45
2002	7	3	14	94	72	92	67	89	63
2002	***8***	***14***	***15***	***99***	***65***	***97***	***70***	***97***	***73***

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Granite State Electric Company
Historical Peak Day Temperatures - Concord Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2002	9	9	17	95	58	90	68	88	68
2002	10	2	15	83	61	85	66	85	65
2002	11	18	18	37	32	35	30	32	26
2002	12	9	18	19	2	41	14	35	-1
2003	**1**	**22**	**19**	**8**	**-3**	**13**	**1**	**24**	**-3**
2003	2	13	19	13	-16	24	-6	26	2
2003	3	3	19	35	-4	36	31	38	8
2003	4	1	19	39	17	33	22	51	30
2003	5	20	15	86	41	84	38	76	30
2003	6	27	14	95	69	94	66	95	62
2003	7	8	17	91	65	90	61	93	65
2003	***8***	***22***	***15***	***90***	***64***	***89***	***65***	***90***	***60***
2003	9	15	15	79	63	80	61	76	44
2003	10	27	18	63	55	65	48	55	22
2003	11	11	18	39	18	49	14	37	12
2003	12	15	18	31	22	22	6	28	11
2004	**1**	**14**	**18**	**0**	**-13**	**37**	**-2**	**29**	**16**
2004	2	3	18	34	3	39	4	32	11
2004	3	16	19	34	24	47	31	43	21
2004	4	1	19	46	38	40	33	46	28
2004	5	12	17	87	46	85	48	66	41
2004	6	9	16	93	62	89	48	77	51
2004	7	22	16	88	61	86	58	84	63
2004	***8***	***30***	***16***	***89***	***65***	***87***	***67***	***90***	***66***
2004	9	1	14	79	51	80	58	89	65
2004	10	4	20	69	34	65	40	61	49
2004	11	17	18	36	28	46	29	57	28
2004	**12**	**20**	**19**	**33**	**-4**	**39**	**14**	**32**	**5**
2005	1	18	19	6	-2	20	6	25	10
2005	2	21	19	19	11	25	8	23	6
2005	3	8	19	34	13	40	23	37	9
2005	4	20	14	87	46	78	29	70	33
2005	5	11	15	82	44	74	38	67	44
2005	6	13	17	90	71	88	70	90	70
2005	***7***	***19***	***14***	***89***	***68***	***87***	***72***	***82***	***67***
2005	8	10	16	93	61	87	67	90	59
2005	9	14	16	89	57	86	57	89	48
2005	10	7	14	81	59	79	55	79	50
2005	11	23	18	32	14	46	32	58	23
2005	**12**	**14**	**18**	**22**	**12**	**20**	**-3**	**36**	**11**
2006	1	16	18	25	10	27	11	55	27
2006	2	27	19	19	1	17	7	22	7
2006	3	1	19	28	3	23	0	19	1
2006	4	4	20	40	29	58	25	58	33
2006	5	31	17	84	55	81	58	86	58
2006	6	19	15	93	65	94	61	84	53
2006	7	17	17	93	64	92	67	86	64
2006	***8***	***2***	***16***	***97***	***76***	***95***	***69***	***85***	***52***
2006	9	19	16	83	53	80	51	79	54
2006	10	4	20	77	51	77	39	63	40
2006	11	28	18	45	35	59	31	56	24
2006	12	9	18	26	16	50	26	38	14

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Granite State Electric Company
Historical Peak Day Temperatures - Concord Weather Station

Mass Electric Monthly Peak Information				Day of Monthly Peak		One Day Prior		Two Days Prior	
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Year	Month	Day	Hour	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature
2007	1	17	19	14	0	32	9	32	25
2007	**2**	**5**	**19**	**14**	**4**	**20**	**-1**	**30**	**7**
2007	3	6	19	16	-2	34	16	37	26
2007	4	23	15	87	42	78	32	76	29
2007	5	25	15	93	54	91	43	76	36
2007	***6***	***27***	***16***	***95***	***65***	***95***	***61***	***87***	***57***
2007	7	27	16	90	66	89	60	88	58
2007	8	3	15	94	65	93	61	88	62
2007	9	7	16	95	57	80	40	73	38
2007	10	4	15	81	50	73	58	70	40
2007	11	28	18	55	32	46	34	56	35
2007	***12***	***13***	***18***	***24***	***13***	***32***	***2***	***31***	***8***
2008	1	3	18	9	-12	29	2	31	12
2008	2	11	19	20	8	34	14	35	9
2008	3	3	19	44	4	34	12	34	18
2008	4	23	16	85	43	78	36	73	38
2008	5	27	14	87	52	84	41	77	37
2008	***6***	***10***	***16***	***98***	***66***	***94***	***66***	***94***	***59***
2008	7	18	16	91	57	87	58	88	53
2008	8	1	16	85	65	76	61	85	63
2008	9	5	16	89	62	88	53	81	54
2008	10	29	19	40	34	50	36	68	32
2008	11	19	19	30	16	36	17	44	24
2008	***12***	***8***	***18***	***18***	***3***	***32***	***18***	***33***	***11***
2009	1	15	18	15	-14	28	-1	30	0
2009	2	5	19	15	-2	22	5	32	19
2009	3	2	19	23	15	25	17	45	19
2009	4	28	15	93	46	79	47	81	54
2009	5	21	16	91	44	80	40	72	30
2009	6	26	13	86	63	80	58	72	63
2009	7	29	15	87	68	86	58	86	64
2009	***8***	***18***	***14***	***93***	***63***	***90***	***63***	***90***	***59***
2009	9	3	16	80	48	77	43	73	40
2009	10	28	19	47	42	51	27	59	29
2009	11	30	18	46	30	51	28	50	40
2009	12	17	18	18	3	35	18	44	34
2010	**1**	**12**	**18**	**26**	**10**	**31**	**-1**	**21**	**5**
2010	2	1	19	32	16	26	0	18	-1
2010	3	1	19	47	33	36	24	37	30
2010	4	7	16	87	40	61	38	74	34
2010	5	26	16	96	57	92	56	86	53
2010	6	28	14	85	65	77	59	81	54
2010	***7***	***6***	***16***	***99***	***70***	***97***	***62***	***91***	***57***
2010	8	4	16	92	69	86	59	83	56
2010	9	1	17	95	61	95	60	91	56
2010	10	27	19	72	49	73	49	52	40
2010	11	29	18	44	17	43	18	40	21
2010	12	15	18	19	13	31	16	53	31

Note: Summer Peaks in bold italics; Winter Peaks in bold.

Appendix K

2011 Power Supply Area Forecast

Sub Area Forecast
Towns

Energy Portfolio Management
Electric Load Forecasting

March 31, 2011

Appendix K

Sub Area Forecast
Towns

Contents

Allocation of PSA Coincident Peak Demand Forecast to Towns *

	Annual Growth Rates										10-Year
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2010-2020
Massachusetts Electric Company	**5.8%**	**1.2%**	**2.1%**	**2.2%**	**1.4%**	**1.0%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**	**1.7%**
Marlboro Power Supply Area	**13.1%**	**2.3%**	**3.2%**	**3.3%**	**2.4%**	**1.9%**	**1.8%**	**1.7%**	**1.7%**	**1.7%**	**3.3%**
Southboro	31.8%	5.0%	7.0%	7.1%	5.1%	3.5%	3.3%	3.3%	1.7%	1.7%	6.6%
Marlboro	12.4%	2.2%	3.0%	3.0%	2.2%	1.8%	1.6%	1.6%	1.7%	1.7%	3.1%
Northboro	10.7%	1.9%	2.6%	2.7%	1.9%	1.6%	1.5%	1.4%	1.7%	1.7%	2.7%
Westboro	5.8%	1.1%	1.5%	1.5%	1.1%	1.1%	1.0%	1.0%	1.7%	1.7%	1.7%
Attleboro Power Supply Area	**6.9%**	**2.7%**	**3.6%**	**3.8%**	**2.7%**	**2.2%**	**2.0%**	**1.9%**	**1.9%**	**2.0%**	**3.0%**
Franklin	12.6%	4.8%	6.2%	6.4%	4.5%	3.3%	2.9%	2.8%	1.9%	2.0%	4.7%
Wrentham	10.3%	4.0%	5.1%	5.3%	3.8%	2.8%	2.5%	2.4%	1.9%	2.0%	4.0%
Bellingham	9.8%	3.8%	4.9%	5.1%	3.6%	2.7%	2.4%	2.3%	1.9%	2.0%	3.8%
Rehoboth	8.4%	3.2%	4.2%	4.4%	3.1%	2.4%	2.2%	2.1%	1.9%	2.0%	3.4%
Norton	7.4%	2.9%	3.7%	3.9%	2.7%	2.2%	2.0%	1.9%	1.9%	2.0%	3.0%
Foxboro	6.6%	2.6%	3.3%	3.5%	2.4%	2.0%	1.8%	1.7%	1.9%	2.0%	2.8%
Plainville	5.8%	2.3%	3.0%	3.1%	2.2%	1.9%	1.7%	1.6%	1.9%	2.0%	2.5%
Seekonk	5.2%	2.1%	2.7%	2.8%	2.0%	1.7%	1.6%	1.5%	1.9%	2.0%	2.3%
Attleboro	-2.4%	-1.0%	-1.3%	-1.4%	-1.0%	0.0%	0.0%	0.0%	1.9%	2.0%	-0.3%
Uxbridge Power Supply Area	**3.5%**	**3.4%**	**4.5%**	**4.8%**	**3.0%**	**2.2%**	**1.9%**	**1.8%**	**1.8%**	**1.9%**	**2.9%**
Upton	6.0%	5.7%	7.5%	8.0%	4.9%	3.3%	2.8%	2.7%	1.8%	1.9%	4.4%
Uxbridge	5.1%	4.9%	6.4%	6.9%	4.3%	2.9%	2.5%	2.4%	1.8%	1.9%	3.9%
Millville	4.5%	4.3%	5.7%	6.1%	3.8%	2.7%	2.2%	2.1%	1.8%	1.9%	3.5%
Mendon	4.5%	4.3%	5.6%	6.1%	3.8%	2.7%	2.2%	2.1%	1.8%	1.9%	3.5%
Whitinsville	3.4%	3.3%	4.3%	4.7%	2.9%	2.2%	1.8%	1.7%	1.8%	1.9%	2.8%
Blackstone	3.3%	3.1%	4.1%	4.4%	2.8%	2.1%	1.8%	1.7%	1.8%	1.9%	2.7%
Milford	2.9%	2.8%	3.7%	4.0%	2.5%	1.9%	1.6%	1.5%	1.8%	1.9%	2.5%
Douglas	2.9%	2.8%	3.6%	3.9%	2.5%	1.9%	1.6%	1.5%	1.8%	1.9%	2.5%
Hopedale	2.4%	2.3%	3.1%	3.3%	2.1%	1.7%	1.4%	1.4%	1.8%	1.9%	2.2%
Essex Power Supply Area	**3.0%**	**2.6%**	**3.7%**	**3.5%**	**2.5%**	**1.9%**	**1.8%**	**1.8%**	**1.7%**	**1.7%**	**2.4%**
Beverly	4.9%	4.1%	5.9%	5.5%	3.9%	2.7%	2.6%	2.5%	1.7%	1.7%	3.5%
Wenham	4.3%	3.6%	5.2%	4.8%	3.4%	2.4%	2.3%	2.2%	1.7%	1.7%	3.2%
Topsfield	4.1%	3.5%	5.0%	4.6%	3.3%	2.4%	2.3%	2.1%	1.7%	1.7%	3.1%
Hamilton	3.8%	3.2%	4.6%	4.3%	3.0%	2.2%	2.1%	2.0%	1.7%	1.7%	2.9%
Manchester	3.7%	3.2%	4.5%	4.2%	3.0%	2.2%	2.1%	2.0%	1.7%	1.7%	2.8%
Essex	2.0%	1.7%	2.5%	2.3%	1.7%	1.4%	1.4%	1.3%	1.7%	1.7%	1.8%
Salem	2.0%	1.7%	2.4%	2.3%	1.6%	1.4%	1.4%	1.3%	1.7%	1.7%	1.8%
Gloucester	1.4%	1.2%	1.7%	1.6%	1.2%	1.2%	1.1%	1.0%	1.7%	1.7%	1.4%
Rockport	1.1%	0.9%	1.3%	1.3%	0.9%	1.0%	1.0%	0.9%	1.7%	1.7%	1.2%
Worcester Power Supply Area	**4.6%**	**1.4%**	**2.1%**	**2.2%**	**1.7%**	**1.5%**	**1.4%**	**1.3%**	**1.3%**	**1.3%**	**1.9%**
Rutland	16.7%	4.7%	7.2%	7.2%	5.5%	3.9%	3.7%	3.6%	1.3%	1.3%	5.4%
Oakham	9.9%	2.9%	4.5%	4.4%	3.5%	2.6%	2.4%	2.4%	1.3%	1.3%	3.5%
New Braintree	9.4%	2.8%	4.3%	4.3%	3.3%	2.5%	2.3%	2.3%	1.3%	1.3%	3.4%

* Growth in peak demand with extreme weather from actual 2010 base.

Allocation of PSA Coincident Peak Demand Forecast to Towns *

	Annual Growth Rates										10-Year
E. Brookfield	8.5%	2.5%	3.8%	3.8%	3.0%	2.3%	2.1%	2.1%	1.3%	1.3%	3.1%
Brookfield	8.3%	2.5%	3.8%	3.8%	3.0%	2.2%	2.1%	2.1%	1.3%	1.3%	3.0%
Leicester	6.5%	2.0%	3.0%	3.0%	2.4%	1.9%	1.7%	1.7%	1.3%	1.3%	2.5%
W. Brookfield	5.7%	1.7%	2.6%	2.6%	2.1%	1.7%	1.6%	1.5%	1.3%	1.3%	2.2%
Worcester	4.3%	1.3%	2.0%	2.0%	1.6%	1.4%	1.3%	1.3%	1.3%	1.3%	1.8%
N. Brookfield	3.9%	1.2%	1.8%	1.8%	1.4%	1.3%	1.2%	1.2%	1.3%	1.3%	1.6%
Auburn	2.5%	0.8%	1.2%	1.2%	0.9%	1.0%	0.9%	0.9%	1.3%	1.3%	1.2%
Weymouth Power Supply Area	**8.3%**	**0.8%**	**1.4%**	**1.4%**	**1.2%**	**1.1%**	**1.1%**	**1.1%**	**1.0%**	**1.0%**	**1.8%**
Weymouth	11.9%	1.1%	1.9%	2.0%	1.7%	1.4%	1.4%	1.4%	1.0%	1.0%	2.4%
Quincy	7.7%	0.8%	1.3%	1.3%	1.1%	1.0%	1.0%	1.0%	1.0%	1.0%	1.7%
Holbrook	7.1%	0.7%	1.2%	1.2%	1.0%	1.0%	1.0%	0.9%	1.0%	1.0%	1.6%
Randolph	4.6%	0.5%	0.8%	0.8%	0.7%	0.7%	0.7%	0.7%	1.0%	1.0%	1.2%
Hingham	-21.1%	-2.7%	-4.6%	-4.9%	-4.2%	-2.6%	-2.5%	-2.5%	1.0%	1.0%	-4.5%
Fall River Power Supply Area	**10.8%**	**0.7%**	**1.5%**	**1.8%**	**1.0%**	**0.6%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**1.8%**
Fall River	10.8%	0.7%	1.5%	1.8%	1.0%	0.6%	0.4%	0.4%	0.4%	0.5%	1.8%
Westport	10.8%	0.7%	1.5%	1.8%	1.0%	0.6%	0.4%	0.4%	0.4%	0.5%	1.8%
Somerset	10.8%	0.7%	1.5%	1.8%	1.0%	0.6%	0.4%	0.4%	0.4%	0.5%	1.8%
Swansea	10.8%	0.7%	1.5%	1.8%	1.0%	0.6%	0.4%	0.4%	0.4%	0.5%	1.8%
Dighton	10.8%	0.7%	1.5%	1.8%	1.0%	0.6%	0.4%	0.4%	0.4%	0.5%	1.8%
Brockton Power Supply Area	**7.9%**	**0.8%**	**1.4%**	**1.4%**	**1.2%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.8%**
Halifax	15.8%	1.5%	2.6%	2.7%	2.3%	1.8%	1.8%	1.8%	1.0%	1.0%	3.2%
Whitman	13.9%	1.4%	2.3%	2.4%	2.0%	1.6%	1.6%	1.6%	1.0%	1.0%	2.8%
Cohasset	13.3%	1.3%	2.3%	2.3%	1.9%	1.6%	1.5%	1.5%	1.0%	1.0%	2.7%
Pembroke	12.4%	1.2%	2.1%	2.2%	1.8%	1.5%	1.5%	1.4%	1.0%	1.0%	2.6%
Abbington	11.3%	1.1%	1.9%	2.0%	1.7%	1.4%	1.4%	1.3%	1.0%	1.0%	2.4%
Rockland	10.6%	1.1%	1.8%	1.9%	1.6%	1.3%	1.3%	1.3%	1.0%	1.0%	2.3%
East Bridgewater	10.3%	1.0%	1.8%	1.8%	1.5%	1.3%	1.3%	1.2%	1.0%	1.0%	2.2%
Scituate	10.3%	1.0%	1.8%	1.8%	1.5%	1.3%	1.3%	1.2%	1.0%	1.0%	2.2%
Easton	9.6%	1.0%	1.7%	1.7%	1.4%	1.2%	1.2%	1.2%	1.0%	1.0%	2.1%
Hanover	8.8%	0.9%	1.5%	1.6%	1.3%	1.2%	1.1%	1.1%	1.0%	1.0%	1.9%
Norwell	8.2%	0.8%	1.4%	1.5%	1.2%	1.1%	1.1%	1.0%	1.0%	1.0%	1.8%
Bridgewater	8.0%	0.8%	1.4%	1.4%	1.2%	1.1%	1.0%	1.0%	1.0%	1.0%	1.8%
Avon	7.7%	0.8%	1.3%	1.4%	1.1%	1.0%	1.0%	1.0%	1.0%	1.0%	1.7%
Hanson	6.1%	0.6%	1.1%	1.1%	0.9%	0.9%	0.9%	0.8%	1.0%	1.0%	1.4%
Brockton	4.9%	0.5%	0.9%	0.9%	0.7%	0.8%	0.7%	0.7%	1.0%	1.0%	1.2%
Stoughton	3.5%	0.4%	0.6%	0.6%	0.5%	0.6%	0.6%	0.6%	1.0%	1.0%	0.9%
Sharon	2.1%	0.2%	0.4%	0.4%	0.3%	0.5%	0.5%	0.5%	1.0%	1.0%	0.7%
West Bridgewater	-1.0%	-0.1%	-0.2%	-0.2%	-0.2%	0.2%	0.2%	0.2%	1.0%	1.0%	0.1%
Webster Power Supply Area	**1.5%**	**1.6%**	**2.6%**	**2.6%**	**1.7%**	**1.3%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.6%**
Charlton	3.2%	3.4%	5.4%	5.3%	3.6%	2.3%	2.1%	2.0%	1.1%	1.1%	2.9%
Sutton	2.4%	2.5%	4.0%	3.9%	2.6%	1.8%	1.6%	1.6%	1.1%	1.1%	2.2%
Millbury	1.7%	1.8%	2.9%	2.8%	1.9%	1.4%	1.2%	1.2%	1.1%	1.1%	1.7%

* Growth in peak demand with extreme weather from actual 2010 base.

Allocation of PSA Coincident Peak Demand Forecast to Towns *

	Annual Growth Rates										**10-Year**
Dudley	1.7%	1.8%	2.8%	2.8%	1.9%	1.4%	1.2%	1.2%	1.1%	1.1%	1.7%
Grafton	1.7%	1.7%	2.8%	2.7%	1.8%	1.4%	1.2%	1.2%	1.1%	1.1%	1.7%
Sturbridge	1.7%	1.7%	2.8%	2.7%	1.8%	1.4%	1.2%	1.2%	1.1%	1.1%	1.7%
Spencer	1.1%	1.2%	1.9%	1.9%	1.3%	1.0%	0.9%	0.9%	1.1%	1.1%	1.2%
Southbridge	0.9%	0.9%	1.5%	1.5%	1.0%	0.9%	0.8%	0.7%	1.1%	1.1%	1.0%
Oxford	0.9%	0.9%	1.4%	1.4%	1.0%	0.9%	0.8%	0.7%	1.1%	1.1%	1.0%
Webster	0.3%	0.3%	0.5%	0.5%	0.3%	0.5%	0.5%	0.4%	1.1%	1.1%	0.6%
Athol Power Supply Area	**8.5%**	**1.1%**	**2.5%**	**2.4%**	**1.0%**	**0.2%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**1.5%**
Phillipston	17.0%	2.1%	4.6%	4.5%	1.8%	0.4%	0.0%	-0.1%	0.0%	0.0%	2.9%
Barre	15.8%	1.9%	4.3%	4.2%	1.7%	0.4%	0.0%	0.0%	0.0%	0.0%	2.7%
Petersham	15.7%	1.9%	4.3%	4.2%	1.7%	0.4%	0.0%	0.0%	0.0%	0.0%	2.7%
Wendall	12.7%	1.6%	3.6%	3.5%	1.4%	0.3%	0.0%	0.0%	0.0%	0.0%	2.2%
Warwick	12.2%	1.5%	3.4%	3.4%	1.4%	0.3%	0.0%	0.0%	0.0%	0.0%	2.2%
New Salem	8.3%	1.1%	2.4%	2.4%	1.0%	0.2%	0.0%	0.0%	0.0%	0.0%	1.5%
Athol	7.9%	1.0%	2.3%	2.3%	0.9%	0.2%	0.0%	0.0%	0.0%	0.0%	1.4%
Shutesbury	7.6%	1.0%	2.2%	2.2%	0.9%	0.2%	0.0%	0.0%	0.0%	0.0%	1.4%
Royalston	6.5%	0.9%	1.9%	1.9%	0.8%	0.2%	0.0%	0.0%	0.0%	0.0%	1.2%
Orange	6.4%	0.8%	1.9%	1.9%	0.8%	0.2%	0.0%	0.0%	0.0%	0.0%	1.2%
Erving	5.1%	0.7%	1.5%	1.5%	0.6%	0.2%	0.0%	0.0%	0.0%	0.0%	0.9%
South Berkshire Power Supply Area	**3.1%**	**1.9%**	**3.3%**	**3.0%**	**1.2%**	**0.5%**	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**1.5%**
Alford	4.5%	2.8%	4.9%	4.3%	1.7%	0.7%	0.7%	0.7%	0.6%	0.6%	2.1%
Sheffield	4.4%	2.7%	4.8%	4.2%	1.7%	0.7%	0.6%	0.7%	0.6%	0.6%	2.1%
Monterey	3.9%	2.4%	4.2%	3.7%	1.5%	0.6%	0.6%	0.7%	0.6%	0.6%	1.9%
Mt.Washington	3.1%	1.9%	3.3%	2.9%	1.2%	0.5%	0.5%	0.6%	0.6%	0.6%	1.5%
New Marlboro	3.0%	1.8%	3.2%	2.9%	1.1%	0.5%	0.5%	0.5%	0.6%	0.6%	1.5%
Lenox	2.9%	1.8%	3.1%	2.8%	1.1%	0.5%	0.5%	0.5%	0.6%	0.6%	1.4%
Egremont	2.5%	1.6%	2.7%	2.4%	1.0%	0.5%	0.4%	0.5%	0.6%	0.6%	1.3%
Stockbridge	2.5%	1.5%	2.7%	2.4%	1.0%	0.5%	0.4%	0.5%	0.6%	0.6%	1.3%
W.Stockbridge	2.5%	1.5%	2.7%	2.4%	1.0%	0.5%	0.4%	0.5%	0.6%	0.6%	1.3%
Gt. Barrington	2.4%	1.5%	2.6%	2.3%	0.9%	0.5%	0.4%	0.5%	0.6%	0.6%	1.2%
Merrimack Valley Power Supply Area	**7.0%**	**0.9%**	**2.2%**	**2.0%**	**0.9%**	**0.3%**	**0.2%**	**0.2%**	**0.1%**	**0.2%**	**1.4%**
Westford	18.5%	2.2%	5.4%	4.9%	2.2%	0.6%	0.5%	0.4%	0.1%	0.2%	3.4%
Boxford	14.9%	1.8%	4.4%	4.0%	1.8%	0.5%	0.4%	0.3%	0.1%	0.2%	2.8%
Methuen	13.0%	1.6%	3.9%	3.5%	1.6%	0.5%	0.4%	0.3%	0.1%	0.2%	2.4%
Billerica	11.4%	1.4%	3.4%	3.1%	1.4%	0.4%	0.3%	0.2%	0.1%	0.2%	2.2%
Dracut	10.7%	1.3%	3.2%	2.9%	1.3%	0.4%	0.3%	0.2%	0.1%	0.2%	2.0%
Tyngsboro	10.6%	1.3%	3.2%	2.9%	1.3%	0.4%	0.3%	0.2%	0.1%	0.2%	2.0%
Chelmsford	10.0%	1.2%	3.0%	2.8%	1.3%	0.4%	0.3%	0.2%	0.1%	0.2%	1.9%
Salisbury	8.8%	1.1%	2.7%	2.5%	1.1%	0.3%	0.3%	0.2%	0.1%	0.2%	1.7%
West Newbury	8.3%	1.0%	2.6%	2.3%	1.1%	0.3%	0.3%	0.2%	0.1%	0.2%	1.6%
Newbury	8.1%	1.0%	2.5%	2.3%	1.0%	0.3%	0.3%	0.2%	0.1%	0.2%	1.6%
Tewksbury	6.6%	0.8%	2.0%	1.9%	0.8%	0.3%	0.2%	0.2%	0.1%	0.2%	1.3%

* Growth in peak demand with extreme weather from actual 2010 base.

Allocation of PSA Coincident Peak Demand Forecast to Towns *

	Annual Growth Rates										10-Year
Amesbury	6.5%	0.8%	2.0%	1.8%	0.8%	0.3%	0.2%	0.2%	0.1%	0.2%	1.3%
Haverhill	6.2%	0.8%	1.9%	1.8%	0.8%	0.3%	0.2%	0.1%	0.1%	0.2%	1.2%
Newburyport	4.5%	0.6%	1.4%	1.3%	0.6%	0.2%	0.2%	0.1%	0.1%	0.2%	0.9%
Lawrence	2.7%	0.4%	0.9%	0.8%	0.4%	0.2%	0.1%	0.1%	0.1%	0.2%	0.6%
Lowell	2.6%	0.3%	0.8%	0.8%	0.3%	0.2%	0.1%	0.1%	0.1%	0.2%	0.6%
Andover	2.1%	0.3%	0.7%	0.6%	0.3%	0.1%	0.1%	0.1%	0.1%	0.2%	0.5%
No. Andover	0.5%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%
Adams Power Supply Area	**4.0%**	**1.0%**	**1.9%**	**1.8%**	**1.0%**	**0.8%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**	**1.4%**
Hancock	23.2%	5.2%	9.9%	8.9%	4.9%	2.8%	2.7%	2.9%	0.8%	0.8%	6.0%
Charlemont	5.7%	1.4%	2.6%	2.4%	1.3%	0.9%	0.8%	0.8%	0.8%	0.8%	1.7%
Florida-Drury	4.9%	1.2%	2.3%	2.1%	1.1%	0.8%	0.7%	0.8%	0.8%	0.8%	1.5%
Adams	4.3%	1.1%	2.0%	1.8%	1.0%	0.7%	0.7%	0.7%	0.8%	0.8%	1.4%
Heath	3.6%	0.9%	1.7%	1.5%	0.8%	0.6%	0.6%	0.6%	0.8%	0.8%	1.2%
Rowe	3.0%	0.8%	1.4%	1.3%	0.7%	0.6%	0.5%	0.5%	0.8%	0.8%	1.0%
Williamstown	2.1%	0.5%	1.0%	0.9%	0.5%	0.4%	0.4%	0.4%	0.8%	0.8%	0.8%
Clarksburg	1.9%	0.5%	0.9%	0.8%	0.4%	0.4%	0.4%	0.4%	0.8%	0.8%	0.7%
Cheshire	1.5%	0.4%	0.7%	0.6%	0.3%	0.4%	0.4%	0.4%	0.8%	0.8%	0.6%
Hawley	1.5%	0.4%	0.7%	0.6%	0.3%	0.4%	0.4%	0.4%	0.8%	0.8%	0.6%
North Adams	1.1%	0.3%	0.5%	0.5%	0.3%	0.3%	0.3%	0.3%	0.8%	0.8%	0.5%
Monroe	-34.1%	-11.7%	-21.7%	-22.5%	-14.2%	-7.5%	-6.6%	-6.2%	0.8%	0.8%	-13.0%
Palmer Power Supply Area	**0.4%**	**1.5%**	**2.4%**	**2.3%**	**1.5%**	**1.0%**	**0.9%**	**0.9%**	**0.9%**	**1.0%**	**1.3%**
Belchertown	0.8%	2.7%	4.3%	4.0%	2.6%	1.5%	1.3%	1.4%	0.9%	1.0%	2.1%
East Longmeadow	0.7%	2.4%	3.8%	3.5%	2.2%	1.4%	1.2%	1.2%	0.9%	1.0%	1.8%
Wilbraham	0.6%	2.2%	3.4%	3.2%	2.0%	1.3%	1.1%	1.1%	0.9%	1.0%	1.7%
Brimfield	0.6%	1.8%	2.9%	2.7%	1.7%	1.1%	1.0%	1.0%	0.9%	1.0%	1.5%
Hampden	0.5%	1.7%	2.6%	2.5%	1.6%	1.0%	0.9%	0.9%	0.9%	1.0%	1.4%
Hardwick	0.4%	1.4%	2.2%	2.1%	1.3%	0.9%	0.8%	0.8%	0.9%	1.0%	1.2%
Wales	0.4%	1.4%	2.2%	2.0%	1.3%	0.9%	0.8%	0.8%	0.9%	1.0%	1.2%
Granby	0.4%	1.4%	2.2%	2.0%	1.3%	0.9%	0.8%	0.8%	0.9%	1.0%	1.2%
Holland	0.4%	1.3%	2.0%	1.9%	1.2%	0.8%	0.7%	0.8%	0.9%	1.0%	1.1%
Ware	0.3%	0.9%	1.4%	1.3%	0.8%	0.7%	0.6%	0.6%	0.9%	1.0%	0.8%
Monson	0.2%	0.8%	1.2%	1.2%	0.7%	0.6%	0.5%	0.5%	0.9%	1.0%	0.8%
Warren	-0.2%	-0.8%	-1.3%	-1.2%	-0.8%	-0.1%	-0.1%	-0.1%	0.9%	1.0%	-0.3%
Palmer-3Rivers	-0.4%	-1.2%	-1.9%	-1.8%	-1.1%	-0.3%	-0.3%	-0.2%	0.9%	1.0%	-0.5%
Suburban Power Supply Area	**5.9%**	**-0.1%**	**0.7%**	**0.8%**	**0.4%**	**0.2%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.8%**
Everett	16.3%	-0.2%	1.8%	2.1%	1.1%	0.4%	0.3%	0.3%	0.1%	0.1%	2.1%
Revere	6.4%	-0.1%	0.7%	0.8%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%	0.9%
Nahant	6.2%	-0.1%	0.7%	0.8%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%	0.9%
Swampscott	6.0%	-0.1%	0.7%	0.8%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%	0.8%
Medford	5.4%	-0.1%	0.6%	0.7%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%	0.8%
Melrose	4.5%	0.0%	0.5%	0.6%	0.3%	0.1%	0.1%	0.1%	0.1%	0.1%	0.6%
Saugus	3.6%	0.0%	0.4%	0.5%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.5%

* Growth in peak demand with extreme weather from actual 2010 base.

Allocation of PSA Coincident Peak Demand Forecast to Towns *

	Annual Growth Rates										10-Year
Malden	3.5%	0.0%	0.4%	0.5%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.5%
Winthrop	3.2%	0.0%	0.4%	0.4%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.5%
Lynn	1.3%	0.0%	0.1%	0.2%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%	0.2%
Gardner Power Supply Area	**-4.7%**	**0.5%**	**1.6%**	**1.6%**	**0.7%**	**0.2%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**
Gardner	-3.0%	0.3%	1.0%	1.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Westminster	-5.1%	0.6%	1.7%	1.8%	0.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Hubbardston	-10.0%	1.2%	3.7%	3.7%	1.5%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Winchendon	-6.8%	0.8%	2.4%	2.4%	1.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Leominster Power Supply Area	**-3.6%**	**-0.1%**	**0.7%**	**0.8%**	**0.3%**	**0.1%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**-0.2%**
Leominster	4.2%	0.1%	-0.7%	-0.7%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Pepperell	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clinton	-1.1%	0.0%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
Groton	-7.1%	-0.2%	1.4%	1.4%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.4%
Ayer	-11.8%	-0.3%	2.4%	2.5%	1.0%	0.2%	0.0%	0.0%	0.0%	0.0%	-0.7%
Harvard	-13.1%	-0.3%	2.7%	2.9%	1.1%	0.2%	0.0%	0.0%	0.0%	0.0%	-0.7%
Lancaster	-14.9%	-0.4%	3.2%	3.3%	1.3%	0.3%	0.0%	0.0%	0.0%	0.0%	-0.8%
Bolton	-15.3%	-0.4%	3.3%	3.5%	1.4%	0.3%	0.0%	0.0%	0.0%	0.0%	-0.9%
Shirley	-18.4%	-0.5%	4.2%	4.3%	1.7%	0.3%	0.0%	0.0%	0.0%	0.0%	-1.0%
Berlin	-21.0%	-0.6%	5.0%	5.1%	2.0%	0.4%	0.0%	0.0%	0.0%	0.0%	-1.2%
Dunstable	-25.8%	-0.8%	6.6%	6.8%	2.7%	0.5%	0.0%	0.0%	0.0%	0.0%	-1.4%
Northampton Power Supply Area	**-6.0%**	**0.0%**	**0.7%**	**0.7%**	**0.3%**	**0.0%**	**0.0%**	**0.0%**	**0.1%**	**0.1%**	**-0.4%**
Northampton	-5.5%	0.0%	0.7%	0.7%	0.3%	0.0%	0.0%	0.0%	0.1%	0.1%	-0.4%
Williamsburg	-10.8%	-0.1%	1.4%	1.4%	0.6%	0.1%	0.0%	0.0%	0.1%	0.1%	-0.8%
Goshen	-15.6%	-0.1%	2.2%	2.1%	0.9%	0.1%	0.0%	0.1%	0.1%	0.1%	-1.2%
Nantucket Power Supply Area	**7.6%**	**2.4%**	**4.0%**	**3.4%**	**2.0%**	**1.5%**	**1.4%**	**1.4%**	**1.4%**	**1.4%**	**2.6%**
Nantucket	7.6%	2.4%	4.0%	3.4%	2.0%	1.5%	1.4%	1.4%	1.4%	1.4%	2.6%
Narragansett Electric Company	**3.4%**	**2.3%**	**2.8%**	**2.7%**	**2.1%**	**1.7%**	**1.4%**	**1.3%**	**1.2%**	**1.2%**	**2.0%**
Western Neco Power Supply Area	**5.8%**	**3.6%**	**4.1%**	**4.0%**	**3.1%**	**2.5%**	**2.2%**	**2.0%**	**1.9%**	**1.9%**	**3.1%**
West Greenwich	26.3%	14.4%	16.2%	15.0%	11.4%	7.4%	6.4%	6.1%	1.9%	1.9%	10.5%
Smithfield	9.4%	5.6%	6.3%	6.0%	4.6%	3.4%	2.8%	2.6%	1.9%	1.9%	4.4%
Glouster	8.6%	5.1%	5.8%	5.5%	4.2%	3.1%	2.6%	2.4%	1.9%	1.9%	4.1%
Tiverton	7.8%	4.7%	5.3%	5.0%	3.9%	2.9%	2.5%	2.2%	1.9%	1.9%	3.8%
South Kingstown	7.1%	4.3%	4.9%	4.6%	3.5%	2.7%	2.3%	2.1%	1.9%	1.9%	3.5%
Charlestown	7.0%	4.2%	4.8%	4.5%	3.5%	2.7%	2.3%	2.1%	1.9%	1.9%	3.5%
Richmond	6.9%	4.1%	4.7%	4.4%	3.4%	2.7%	2.2%	2.0%	1.9%	1.9%	3.4%
West Warwick	5.8%	3.5%	4.0%	3.8%	2.9%	2.4%	2.0%	1.8%	1.9%	1.9%	3.0%
Jamestown	5.7%	3.4%	3.9%	3.7%	2.9%	2.3%	2.0%	1.8%	1.9%	1.9%	2.9%
Foster	5.6%	3.4%	3.8%	3.6%	2.8%	2.3%	1.9%	1.8%	1.9%	1.9%	2.9%
Westerly	5.4%	3.2%	3.7%	3.5%	2.7%	2.2%	1.9%	1.7%	1.9%	1.9%	2.8%
Exeter	5.3%	3.2%	3.6%	3.4%	2.7%	2.2%	1.9%	1.7%	1.9%	1.9%	2.8%
Scituate	4.7%	2.9%	3.3%	3.1%	2.4%	2.1%	1.7%	1.6%	1.9%	1.9%	2.6%
Warwick	4.5%	2.7%	3.1%	3.0%	2.3%	2.0%	1.7%	1.5%	1.9%	1.9%	2.5%

* Growth in peak demand with extreme weather from actual 2010 base.

Allocation of PSA Coincident Peak Demand Forecast to Towns *

	Annual Growth Rates										10-Year
Little Compton	4.3%	2.6%	3.0%	2.8%	2.2%	1.9%	1.6%	1.5%	1.9%	1.9%	2.4%
Johnston	4.1%	2.5%	2.9%	2.7%	2.1%	1.9%	1.6%	1.4%	1.9%	1.9%	2.3%
Cranston	3.8%	2.3%	2.6%	2.5%	1.9%	1.8%	1.5%	1.4%	1.9%	1.9%	2.2%
Coventry	3.7%	2.2%	2.5%	2.4%	1.9%	1.8%	1.5%	1.3%	1.9%	1.9%	2.1%
North Kingstown	3.6%	2.2%	2.5%	2.4%	1.9%	1.7%	1.5%	1.3%	1.9%	1.9%	2.1%
Hopkington	3.3%	2.0%	2.3%	2.2%	1.7%	1.7%	1.4%	1.3%	1.9%	1.9%	2.0%
Narragansett	2.9%	1.8%	2.0%	1.9%	1.5%	1.5%	1.3%	1.2%	1.9%	1.9%	1.8%
East Greenwich	-0.3%	-0.2%	-0.2%	-0.2%	-0.1%	0.5%	0.5%	0.4%	1.9%	1.9%	0.4%
Newport Power Supply Area	**-8.2%**	**3.1%**	**3.6%**	**3.5%**	**2.7%**	**2.2%**	**1.9%**	**1.7%**	**1.6%**	**1.6%**	**1.3%**
Portsmouth	-16.3%	6.7%	7.6%	7.2%	5.4%	3.7%	3.1%	2.9%	1.6%	1.6%	2.1%
Middletown	-15.2%	6.2%	7.1%	6.6%	5.0%	3.5%	2.9%	2.7%	1.6%	1.6%	2.0%
Newport	-1.7%	0.6%	0.7%	0.7%	0.6%	0.9%	0.7%	0.7%	1.6%	1.6%	0.6%
Blackstone Valley Power Supply Area	**8.6%**	**0.6%**	**0.9%**	**0.9%**	**0.6%**	**0.3%**	**0.2%**	**0.1%**	**0.1%**	**0.1%**	**1.2%**
Lincoln	39.4%	2.0%	2.9%	2.7%	1.7%	0.8%	0.5%	0.3%	0.1%	0.1%	4.5%
Cumberland	37.8%	2.0%	2.8%	2.6%	1.6%	0.8%	0.4%	0.3%	0.1%	0.1%	4.4%
North Smithfield	19.3%	1.1%	1.6%	1.5%	1.0%	0.5%	0.3%	0.2%	0.1%	0.1%	2.4%
Burrillville	5.6%	0.4%	0.5%	0.5%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%	0.8%
Woonsocket	3.3%	0.2%	0.3%	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.5%
Pawtucket	-21.5%	-1.9%	-2.7%	-2.6%	-1.6%	-0.6%	-0.3%	-0.2%	0.1%	0.1%	-3.4%
Central Falls	-31.7%	-3.2%	-4.5%	-4.5%	-2.8%	-1.2%	-0.6%	-0.4%	0.1%	0.1%	-5.4%
Providence Power Supply Area	**-0.7%**	**0.7%**	**1.0%**	**1.0%**	**0.6%**	**0.4%**	**0.2%**	**0.2%**	**0.1%**	**0.1%**	**0.4%**
Barrington	-1.1%	1.1%	1.6%	1.6%	1.0%	0.6%	0.3%	0.2%	0.1%	0.1%	0.6%
Bristol	-0.9%	0.9%	1.3%	1.3%	0.9%	0.5%	0.3%	0.2%	0.1%	0.1%	0.5%
Providence	-0.8%	0.8%	1.2%	1.2%	0.8%	0.4%	0.3%	0.2%	0.1%	0.1%	0.4%
Warren	-0.6%	0.6%	0.9%	0.9%	0.6%	0.3%	0.2%	0.1%	0.1%	0.1%	0.3%
North Providence	-0.2%	0.2%	0.4%	0.4%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.2%
East Providence	-0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Granite State Electric	**6.0%**	**2.3%**	**2.3%**	**2.1%**	**1.7%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**2.2%**
Western Granite State Power Supply Area	**4.7%**	**2.9%**	**2.9%**	**2.6%**	**1.9%**	**1.6%**	**1.6%**	**1.6%**	**1.6%**	**1.6%**	**2.3%**
Bath	12.1%	7.1%	7.3%	6.4%	4.8%	3.5%	3.6%	3.7%	1.6%	1.6%	5.1%
Surry	7.9%	4.7%	4.8%	4.2%	3.1%	2.4%	2.4%	2.5%	1.6%	1.6%	3.5%
Lebanon	6.1%	3.7%	3.7%	3.3%	2.4%	1.9%	2.0%	2.0%	1.6%	1.6%	2.8%
Grafton	4.0%	2.4%	2.5%	2.2%	1.6%	1.4%	1.4%	1.4%	1.6%	1.6%	2.0%
Marlow	3.8%	2.3%	2.3%	2.0%	1.5%	1.3%	1.4%	1.4%	1.6%	1.6%	1.9%
Charlestown	3.8%	2.3%	2.3%	2.0%	1.5%	1.3%	1.3%	1.3%	1.6%	1.6%	1.9%
Hanover	3.4%	2.1%	2.1%	1.8%	1.4%	1.2%	1.3%	1.3%	1.6%	1.6%	1.8%
Enfield	3.1%	1.9%	1.9%	1.7%	1.2%	1.2%	1.2%	1.2%	1.6%	1.6%	1.6%
Cornish	3.0%	1.8%	1.9%	1.6%	1.2%	1.2%	1.2%	1.2%	1.6%	1.6%	1.6%
Canaan	2.9%	1.7%	1.8%	1.5%	1.1%	1.1%	1.1%	1.1%	1.6%	1.6%	1.6%
Plainfield	2.7%	1.7%	1.7%	1.5%	1.1%	1.1%	1.1%	1.1%	1.6%	1.6%	1.5%
Alstead	1.8%	1.1%	1.1%	1.0%	0.7%	0.9%	0.9%	0.9%	1.6%	1.6%	1.1%
Walpole	1.8%	1.1%	1.1%	1.0%	0.7%	0.8%	0.9%	0.8%	1.6%	1.6%	1.1%

* Growth in peak demand with extreme weather from actual 2010 base.

Allocation of PSA Coincident Peak Demand Forecast to Towns *

	Annual Growth Rates										10-Year
Acworth	1.4%	0.8%	0.8%	0.7%	0.5%	0.7%	0.7%	0.7%	1.6%	1.6%	1.0%
Monroe	0.6%	0.4%	0.4%	0.3%	0.2%	0.5%	0.5%	0.5%	1.6%	1.6%	0.7%
Orange	-0.5%	-0.3%	-0.3%	-0.3%	-0.2%	0.3%	0.3%	0.3%	1.6%	1.6%	0.2%
Langdon	-0.9%	-0.5%	-0.5%	-0.5%	-0.4%	0.2%	0.2%	0.2%	1.6%	1.6%	0.1%
Eastern Granite State Power Supply Area	**7.2%**	**1.7%**	**1.8%**	**1.7%**	**1.5%**	**1.5%**	**1.4%**	**1.4%**	**1.4%**	**1.4%**	**2.1%**
Derry	51.8%	9.7%	10.2%	9.9%	9.4%	7.2%	7.4%	7.6%	1.4%	1.4%	10.9%
Pelham	15.3%	3.4%	3.4%	3.2%	2.9%	2.4%	2.3%	2.3%	1.4%	1.4%	3.7%
Windham	9.8%	2.2%	2.2%	2.1%	1.9%	1.7%	1.6%	1.6%	1.4%	1.4%	2.6%
Salem	3.9%	0.9%	0.9%	0.8%	0.8%	0.9%	0.9%	0.8%	1.4%	1.4%	1.3%

* Growth in peak demand with extreme weather from actual 2010 base.

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
	2010	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**
Massachusetts Electric Company	**4,823.255**	**5,101.961**	**5,163.305**	**5,273.928**	**5,387.792**	**5,462.508**	**5,516.331**	**5,565.107**	**5,612.770**	**5,660.712**	**5,710.896**
Marlboro Power Supply Area	**263.008**	**297.547**	**304.502**	**314.371**	**324.782**	**332.646**	**339.047**	**345.048**	**351.045**	**357.067**	**363.166**
Southboro	37.239	49.077	51.532	55.120	59.015	62.041	64.239	66.353	68.519	69.694	70.885
Marlboro	127.786	143.628	146.778	151.189	155.780	159.198	162.021	164.637	167.221	170.089	172.994
Northboro	24.561	27.198	27.721	28.450	29.206	29.766	30.246	30.689	31.125	31.659	32.200
Westboro	73.421	77.644	78.471	79.612	80.782	81.640	82.542	83.370	84.180	85.625	87.087
Attleboro Power Supply Area	**343.312**	**366.929**	**376.959**	**390.457**	**405.347**	**416.395**	**425.712**	**434.259**	**442.669**	**451.288**	**460.172**
Franklin	103.076	116.037	121.568	129.051	137.348	143.536	148.273	152.647	156.975	160.032	163.182
Wrentham	24.480	27.008	28.078	29.512	31.090	32.256	33.171	34.010	34.834	35.513	36.212
Bellingham	18.257	20.048	20.804	21.817	22.928	23.748	24.396	24.990	25.571	26.069	26.582
Rehoboth	14.411	15.617	16.123	16.797	17.533	18.072	18.511	18.911	19.301	19.677	20.064
Norton	30.076	32.298	33.228	34.461	35.802	36.782	37.599	38.340	39.062	39.822	40.606
Foxboro	37.575	40.041	41.069	42.429	43.902	44.976	45.895	46.727	47.535	48.460	49.414
Plainville	13.134	13.901	14.220	14.641	15.096	15.427	15.718	15.981	16.236	16.552	16.878
Seekonk	28.297	29.773	30.385	31.191	32.059	32.688	33.260	33.776	34.275	34.942	35.630
Attleboro	74.007	72.207	71.482	70.557	69.590	68.910	68.887	68.878	68.881	70.222	71.604
Uxbridge Power Supply Area	**174.232**	**180.391**	**186.455**	**194.753**	**204.127**	**210.273**	**214.967**	**219.014**	**222.945**	**227.051**	**231.380**
Upton	10.086	10.692	11.299	12.144	13.115	13.763	14.216	14.614	15.005	15.282	15.573
Uxbridge	20.642	21.704	22.762	24.223	25.891	26.995	27.785	28.472	29.146	29.683	30.249
Millville	3.057	3.195	3.332	3.521	3.735	3.877	3.980	4.069	4.156	4.232	4.313
Mendon	8.286	8.661	9.031	9.541	10.121	10.503	10.781	11.022	11.258	11.465	11.684
Whitinsville	24.499	25.343	26.173	27.304	28.578	29.411	30.050	30.601	31.134	31.707	32.311
Blackstone	9.778	10.098	10.412	10.839	11.319	11.632	11.876	12.085	12.288	12.514	12.753
Milford	78.412	80.699	82.936	85.975	89.384	91.603	93.376	94.895	96.362	98.137	100.008
Douglas	10.627	10.935	11.237	11.647	12.106	12.405	12.645	12.850	13.048	13.288	13.541
Hopedale	8.846	9.062	9.273	9.559	9.878	10.085	10.258	10.406	10.549	10.743	10.948
Essex Power Supply Area	**224.472**	**231.293**	**237.261**	**246.066**	**254.623**	**260.951**	**265.976**	**270.854**	**275.594**	**280.282**	**285.115**
Beverly	72.591	76.174	79.330	84.017	88.602	92.016	94.505	96.938	99.317	101.006	102.748
Wenham	5.776	6.024	6.242	6.563	6.877	7.110	7.283	7.451	7.615	7.745	7.878
Topsfield	7.535	7.847	8.120	8.523	8.916	9.208	9.426	9.638	9.844	10.012	10.184
Hamilton	8.679	9.010	9.300	9.728	10.144	10.452	10.685	10.912	11.132	11.322	11.517
Manchester	6.749	7.001	7.222	7.548	7.865	8.099	8.277	8.450	8.618	8.765	8.916
Essex	4.283	4.371	4.447	4.557	4.664	4.742	4.810	4.876	4.940	5.024	5.111
Salem	59.665	60.860	61.896	63.406	64.858	65.919	66.862	67.769	68.642	69.810	71.013
Gloucester	50.178	50.892	51.507	52.402	53.259	53.883	54.509	55.110	55.686	56.634	57.610
Rockport	9.016	9.114	9.198	9.321	9.438	9.523	9.619	9.711	9.799	9.965	10.137
Worcester Power Supply Area	**351.339**	**367.412**	**372.520**	**380.502**	**388.729**	**395.348**	**401.101**	**406.550**	**411.989**	**417.414**	**422.933**
Rutland	7.326	8.548	8.949	9.595	10.281	10.851	11.273	11.686	12.110	12.269	12.431
Oakham	1.809	1.988	2.045	2.136	2.231	2.309	2.368	2.425	2.483	2.515	2.548
New Braintree	1.361	1.489	1.531	1.596	1.664	1.719	1.762	1.803	1.844	1.869	1.893
E. Brookfield	2.265	2.456	2.518	2.615	2.715	2.796	2.860	2.921	2.982	3.021	3.061
Brookfield	3.175	3.439	3.523	3.656	3.795	3.907	3.994	4.078	4.162	4.217	4.273

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
Leicester	11.024	11.745	11.975	12.335	12.708	13.008	13.251	13.483	13.714	13.895	14.079
W. Brookfield	4.533	4.791	4.873	5.002	5.134	5.241	5.329	5.413	5.497	5.570	5.643
Worcester	281.771	293.836	297.657	303.608	309.719	314.618	318.943	323.028	327.093	331.400	335.782
N. Brookfield	7.304	7.587	7.677	7.816	7.959	8.073	8.176	8.274	8.371	8.481	8.594
Auburn	30.770	31.532	31.772	32.144	32.524	32.827	33.142	33.438	33.732	34.176	34.628
Weymouth Power Supply Area	**285.856**	**309.576**	**312.071**	**316.428**	**320.968**	**324.850**	**328.412**	**331.912**	**335.422**	**338.930**	**342.451**
Weymouth	78.658	87.995	88.981	90.708	92.513	94.063	95.391	96.700	98.017	99.042	100.071
Quincy	152.225	163.977	165.211	167.360	169.595	171.501	173.280	175.025	176.772	178.621	180.477
Holbrook	13.771	14.750	14.852	15.031	15.216	15.374	15.525	15.673	15.820	15.986	16.152
Randolph	40.207	42.069	42.264	42.601	42.951	43.248	43.570	43.884	44.197	44.660	45.124
Hingham	0.995	0.785	0.764	0.728	0.693	0.664	0.647	0.630	0.615	0.621	0.628
Fall River Power Supply Area	**198.472**	**219.986**	**221.424**	**224.760**	**228.786**	**230.984**	**232.357**	**233.364**	**234.306**	**235.346**	**236.512**
Fall River	139.068	154.142	155.150	157.487	160.309	161.848	162.811	163.516	164.176	164.905	165.722
Westport	6.308	6.991	7.037	7.143	7.271	7.341	7.385	7.417	7.447	7.480	7.517
Somerset	22.635	25.088	25.253	25.633	26.092	26.343	26.499	26.614	26.722	26.840	26.973
Swansea	23.194	25.708	25.877	26.266	26.737	26.994	27.154	27.272	27.382	27.503	27.640
Dighton	7.268	8.055	8.108	8.230	8.378	8.458	8.508	8.545	8.580	8.618	8.661
Brockton Power Supply Area	**554.556**	**598.145**	**602.932**	**611.262**	**619.969**	**627.339**	**634.102**	**640.725**	**647.344**	**653.949**	**660.571**
Halifax	10.460	12.113	12.297	12.622	12.966	13.261	13.503	13.742	13.985	14.128	14.271
Whitman	19.751	22.499	22.803	23.339	23.904	24.387	24.788	25.184	25.584	25.845	26.107
Cohasset	15.090	17.096	17.318	17.708	18.119	18.470	18.763	19.052	19.344	19.541	19.739
Pembroke	28.853	32.419	32.813	33.503	34.228	34.847	35.369	35.883	36.399	36.771	37.143
Abbington	22.519	25.057	25.337	25.825	26.338	26.774	27.148	27.514	27.882	28.167	28.452
Rockland	34.075	37.697	38.096	38.792	39.521	40.139	40.674	41.199	41.725	42.151	42.578
East Bridgewater	19.318	21.308	21.527	21.909	22.308	22.647	22.942	23.231	23.520	23.760	24.001
Scituate	22.707	25.036	25.293	25.740	26.207	26.604	26.949	27.288	27.626	27.908	28.191
Easton	48.063	52.695	53.203	54.089	55.016	55.800	56.490	57.166	57.843	58.433	59.024
Hanover	30.145	32.788	33.078	33.581	34.107	34.551	34.949	35.339	35.728	36.092	36.458
Norwell	25.211	27.281	27.508	27.901	28.311	28.658	28.972	29.280	29.587	29.888	30.191
Bridgewater	38.141	41.188	41.522	42.100	42.703	43.211	43.677	44.131	44.584	45.039	45.495
Avon	19.442	20.929	21.092	21.374	21.667	21.915	22.143	22.367	22.589	22.820	23.051
Hanson	13.385	14.199	14.288	14.441	14.600	14.734	14.865	14.993	15.119	15.274	15.428
Brockton	142.357	149.298	150.053	151.353	152.698	153.825	155.007	156.156	157.296	158.900	160.510
Stoughton	47.893	49.562	49.743	50.054	50.374	50.642	50.961	51.269	51.575	52.101	52.629
Sharon	0.218	0.223	0.223	0.224	0.225	0.226	0.227	0.228	0.229	0.231	0.233
West Bridgewater	16.928	16.757	16.738	16.707	16.675	16.649	16.676	16.702	16.729	16.900	17.071
Webster Power Supply Area	**205.614**	**208.760**	**212.127**	**217.578**	**223.154**	**227.030**	**229.990**	**232.628**	**235.255**	**237.868**	**240.580**
Charlton	22.405	23.123	23.906	25.195	26.537	27.486	28.128	28.710	29.298	29.624	29.961
Sutton	12.046	12.331	12.637	13.137	13.650	14.009	14.262	14.488	14.714	14.878	15.047
Millbury	23.599	24.006	24.440	25.140	25.854	26.349	26.717	27.044	27.370	27.673	27.989
Dudley	14.837	15.090	15.360	15.796	16.240	16.548	16.778	16.982	17.184	17.375	17.573
Grafton	27.959	28.424	28.921	29.721	30.537	31.102	31.525	31.901	32.274	32.633	33.005
Sturbridge	24.233	24.634	25.062	25.752	26.454	26.940	27.305	27.630	27.951	28.262	28.584
Spencer	16.213	16.396	16.590	16.901	17.215	17.431	17.610	17.768	17.924	18.123	18.330

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
Southbridge	22.834	23.037	23.251	23.592	23.935	24.171	24.382	24.568	24.752	25.027	25.312
Oxford	18.223	18.380	18.547	18.812	19.080	19.263	19.429	19.575	19.719	19.938	20.166
Webster	23.267	23.338	23.414	23.532	23.651	23.732	23.854	23.962	24.068	24.335	24.612
Athol Power Supply Area	**47.040**	**51.045**	**51.609**	**52.877**	**54.169**	**54.707**	**54.837**	**54.825**	**54.808**	**54.784**	**54.804**
Phillipston	1.526	1.785	1.822	1.906	1.992	2.029	2.037	2.036	2.035	2.034	2.035
Barre	5.529	6.400	6.524	6.804	7.093	7.214	7.241	7.238	7.235	7.232	7.234
Petersham	1.187	1.373	1.400	1.460	1.521	1.547	1.553	1.553	1.552	1.551	1.552
Wendall	0.782	0.881	0.895	0.927	0.960	0.973	0.977	0.976	0.976	0.975	0.976
Warwick	0.583	0.654	0.664	0.687	0.710	0.720	0.722	0.722	0.722	0.721	0.722
New Salem	0.855	0.925	0.935	0.957	0.980	0.989	0.991	0.991	0.991	0.991	0.991
Athol	13.465	14.533	14.683	15.019	15.360	15.501	15.536	15.533	15.528	15.521	15.527
Shutesbury	1.240	1.334	1.347	1.377	1.406	1.419	1.422	1.422	1.421	1.421	1.421
Royalston	0.986	1.051	1.060	1.080	1.100	1.108	1.111	1.110	1.110	1.110	1.110
Orange	11.937	12.699	12.806	13.044	13.285	13.385	13.411	13.409	13.406	13.400	13.405
Erving	8.951	9.409	9.473	9.616	9.760	9.820	9.837	9.835	9.833	9.829	9.832
South Berkshire Power Supply Area	**52.426**	**54.028**	**55.051**	**56.881**	**58.562**	**59.253**	**59.575**	**59.867**	**60.202**	**60.553**	**60.923**
Alford	0.792	0.827	0.850	0.891	0.929	0.945	0.952	0.958	0.965	0.971	0.977
Sheffield	11.233	11.732	12.053	12.631	13.166	13.387	13.483	13.570	13.671	13.751	13.835
Monterey	1.439	1.495	1.531	1.595	1.654	1.678	1.689	1.699	1.710	1.720	1.731
Mt.Washington	0.304	0.314	0.320	0.330	0.340	0.344	0.346	0.348	0.349	0.351	0.354
New Marlboro	2.186	2.251	2.292	2.367	2.434	2.462	2.475	2.487	2.501	2.515	2.531
Lenox	11.025	11.344	11.546	11.908	12.239	12.375	12.439	12.498	12.564	12.637	12.715
Egremont	2.341	2.400	2.437	2.504	2.566	2.591	2.603	2.614	2.627	2.642	2.658
Stockbridge	4.746	4.864	4.939	5.073	5.195	5.245	5.270	5.292	5.317	5.348	5.381
W.Stockbridge	2.019	2.069	2.101	2.157	2.208	2.229	2.240	2.249	2.260	2.273	2.287
Gt. Barrington	16.341	16.733	16.982	17.425	17.830	17.996	18.078	18.152	18.237	18.344	18.456
Merrimack Valley Power Supply Area	**1,073.278**	**1,148.520**	**1,158.709**	**1,184.239**	**1,208.192**	**1,219.375**	**1,223.082**	**1,225.947**	**1,228.019**	**1,229.791**	**1,232.385**
Westford	64.317	76.192	77.831	82.015	86.015	87.918	88.467	88.898	89.215	89.343	89.532
Boxford	11.245	12.915	13.144	13.722	14.271	14.529	14.605	14.664	14.708	14.729	14.760
Methuen	73.572	83.147	84.452	87.740	90.843	92.300	92.734	93.072	93.317	93.451	93.649
Billerica	122.043	135.941	137.827	142.563	147.014	149.096	149.728	150.217	150.571	150.788	151.106
Dracut	32.708	36.213	36.688	37.879	38.996	39.518	39.678	39.801	39.890	39.948	40.032
Tyngsboro	19.486	21.556	21.836	22.539	23.198	23.506	23.600	23.673	23.726	23.760	23.811
Chelmsford	80.781	88.835	89.924	92.650	95.204	96.394	96.763	97.047	97.252	97.393	97.598
Salisbury	13.972	15.208	15.374	15.790	16.178	16.359	16.416	16.460	16.492	16.516	16.551
West Newbury	5.009	5.426	5.483	5.623	5.754	5.814	5.834	5.849	5.860	5.868	5.880
Newbury	9.247	10.000	10.101	10.354	10.589	10.698	10.733	10.760	10.780	10.795	10.818
Tewksbury	58.045	61.885	62.400	63.679	64.868	65.417	65.602	65.744	65.846	65.941	66.080
Amesbury	23.410	24.932	25.137	25.643	26.114	26.332	26.405	26.462	26.502	26.541	26.597
Haverhill	90.309	95.944	96.699	98.572	100.311	101.115	101.389	101.600	101.751	101.897	102.112
Newburyport	39.437	41.194	41.428	42.007	42.542	42.788	42.881	42.952	43.003	43.065	43.156
Lawrence	101.734	104.520	104.890	105.801	106.639	107.023	107.198	107.332	107.427	107.582	107.809
Lowell	149.221	153.139	153.659	154.938	156.116	156.655	156.906	157.097	157.234	157.461	157.793
Andover	116.623	119.031	119.350	120.134	120.855	121.184	121.356	121.488	121.582	121.758	122.015

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
No. Andover	62.120	62.443	62.485	62.590	62.685	62.729	62.787	62.832	62.864	62.954	63.087
Adams Power Supply Area	**56.636**	**58.885**	**59.484**	**60.642**	**61.754**	**62.399**	**62.868**	**63.324**	**63.800**	**64.283**	**64.775**
Hancock	4.039	4.976	5.234	5.750	6.263	6.569	6.754	6.939	7.138	7.192	7.248
Charlemont	1.492	1.577	1.599	1.641	1.680	1.702	1.717	1.731	1.745	1.759	1.772
Florida-Drury	0.534	0.560	0.567	0.580	0.592	0.599	0.604	0.608	0.613	0.617	0.622
Adams	16.398	17.108	17.291	17.637	17.959	18.141	18.271	18.395	18.521	18.661	18.804
Heath	0.586	0.607	0.612	0.623	0.632	0.638	0.642	0.646	0.649	0.654	0.659
Rowe	0.927	0.956	0.963	0.976	0.989	0.996	1.002	1.007	1.013	1.020	1.028
Williamstown	13.173	13.444	13.514	13.644	13.764	13.831	13.892	13.951	14.010	14.116	14.224
Clarksburg	0.959	0.977	0.981	0.990	0.998	1.002	1.006	1.010	1.014	1.022	1.030
Cheshire	2.380	2.414	2.423	2.440	2.455	2.464	2.473	2.481	2.490	2.509	2.528
Hawley	0.237	0.241	0.242	0.243	0.245	0.246	0.247	0.247	0.248	0.250	0.252
North Adams	15.722	15.901	15.947	16.033	16.112	16.155	16.209	16.260	16.312	16.435	16.561
Monroe	0.188	0.124	0.110	0.086	0.067	0.057	0.053	0.049	0.046	0.047	0.047
Palmer Power Supply Area	**198.620**	**199.495**	**202.471**	**207.329**	**212.030**	**215.124**	**217.250**	**219.112**	**221.071**	**223.155**	**225.373**
Belchertown	21.611	21.785	22.379	23.351	24.294	24.917	25.301	25.638	25.993	26.238	26.499
East Longmeadow	61.824	62.259	63.734	66.139	68.462	69.988	70.947	71.786	72.668	73.353	74.083
Wilbraham	22.302	22.446	22.931	23.720	24.479	24.977	25.295	25.572	25.863	26.106	26.366
Brimfield	5.569	5.600	5.703	5.870	6.030	6.135	6.204	6.263	6.326	6.386	6.449
Hampden	7.123	7.158	7.277	7.469	7.653	7.772	7.852	7.922	7.995	8.070	8.150
Hardwick	4.127	4.144	4.202	4.294	4.382	4.439	4.479	4.514	4.550	4.593	4.639
Wales	2.418	2.428	2.461	2.515	2.566	2.599	2.622	2.642	2.663	2.688	2.715
Granby	7.853	7.885	7.992	8.165	8.330	8.437	8.512	8.577	8.645	8.727	8.813
Holland	3.337	3.349	3.392	3.461	3.526	3.569	3.599	3.625	3.652	3.687	3.724
Ware	20.557	20.610	20.788	21.072	21.341	21.515	21.655	21.777	21.903	22.109	22.329
Monson	12.644	12.674	12.774	12.933	13.084	13.181	13.263	13.333	13.406	13.533	13.667
Warren	7.219	7.201	7.143	7.052	6.968	6.915	6.906	6.899	6.893	6.958	7.027
Palmer-3Rivers	22.037	21.956	21.694	21.288	20.914	20.680	20.616	20.564	20.514	20.708	20.914
Suburban Power Supply Area	**487.708**	**516.328**	**516.013**	**519.505**	**523.620**	**525.725**	**526.678**	**527.313**	**527.945**	**528.596**	**529.306**
Everett	75.352	87.655	87.518	89.065	90.916	91.877	92.249	92.501	92.754	92.869	92.993
Revere	57.348	61.025	60.984	61.426	61.942	62.204	62.320	62.397	62.473	62.550	62.634
Nahant	3.600	3.821	3.819	3.845	3.876	3.892	3.899	3.904	3.909	3.913	3.919
Swampscott	19.229	20.389	20.377	20.516	20.678	20.761	20.798	20.822	20.847	20.872	20.900
Medford	78.819	83.080	83.033	83.543	84.137	84.437	84.576	84.668	84.759	84.864	84.978
Melrose	27.518	28.748	28.734	28.881	29.051	29.137	29.179	29.207	29.234	29.270	29.309
Saugus	46.057	47.736	47.718	47.917	48.148	48.265	48.325	48.366	48.405	48.465	48.530
Malden	68.025	70.381	70.355	70.634	70.958	71.121	71.208	71.265	71.321	71.409	71.505
Winthrop	15.829	16.331	16.325	16.385	16.453	16.488	16.507	16.520	16.532	16.553	16.575
Lynn	95.933	97.163	97.150	97.294	97.460	97.544	97.616	97.663	97.710	97.831	97.962
Gardner Power Supply Area	**55.469**	**52.875**	**53.144**	**53.987**	**54.860**	**55.224**	**55.313**	**55.306**	**55.296**	**55.281**	**55.296**
Gardner	27.803	26.978	27.064	27.327	27.599	27.711	27.742	27.740	27.736	27.729	27.736
Westminster	13.884	13.174	13.248	13.478	13.716	13.815	13.839	13.837	13.834	13.830	13.834
Hubbardston	3.909	3.517	3.558	3.689	3.826	3.884	3.896	3.895	3.894	3.893	3.894
Winchendon	9.872	9.205	9.275	9.493	9.720	9.815	9.836	9.834	9.832	9.829	9.832

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
Leominster Power Supply Area	**192.135**	**185.195**	**185.042**	**186.353**	**187.784**	**188.383**	**188.535**	**188.529**	**188.519**	**188.500**	**188.530**
Leominster	86.624	90.270	90.346	89.721	89.069	88.808	88.778	88.779	88.781	88.772	88.787
Pepperell	10.478	10.470	10.470	10.471	10.473	10.473	10.475	10.475	10.475	10.474	10.476
Clinton	25.821	25.532	25.526	25.577	25.630	25.651	25.660	25.660	25.659	25.657	25.661
Groton	4.449	4.135	4.128	4.184	4.243	4.268	4.273	4.273	4.272	4.272	4.273
Ayer	20.694	18.248	18.195	18.637	19.110	19.304	19.344	19.343	19.340	19.338	19.341
Harvard	6.317	5.489	5.471	5.621	5.782	5.849	5.862	5.862	5.861	5.860	5.861
Lancaster	8.777	7.473	7.445	7.683	7.938	8.044	8.065	8.064	8.063	8.062	8.063
Bolton	8.591	7.274	7.246	7.486	7.745	7.852	7.873	7.872	7.871	7.870	7.871
Shirley	13.758	11.226	11.171	11.638	12.143	12.352	12.394	12.393	12.390	12.388	12.390
Berlin	3.342	2.639	2.624	2.755	2.896	2.956	2.967	2.967	2.966	2.966	2.966
Dunstable	3.285	2.438	2.419	2.579	2.754	2.827	2.842	2.841	2.840	2.840	2.841
Northampton Power Supply Area	**59.082**	**55.550**	**55.531**	**55.939**	**56.335**	**56.501**	**56.529**	**56.530**	**56.543**	**56.575**	**56.624**
Northampton	54.896	51.863	51.847	52.197	52.536	52.678	52.702	52.703	52.714	52.744	52.790
Williamsburg	3.169	2.828	2.826	2.866	2.905	2.921	2.923	2.923	2.925	2.926	2.929
Goshen	1.017	0.859	0.858	0.876	0.895	0.902	0.904	0.904	0.904	0.905	0.905
Nantucket Power Supply Area	**40.121**	**43.166**	**44.194**	**45.961**	**47.533**	**48.505**	**49.241**	**49.916**	**50.621**	**51.330**	**52.059**
Nantucket	40.121	43.166	44.194	45.961	47.533	48.505	49.241	49.916	50.621	51.330	52.059
Narragansett Electric Company	**1,752.371**	**1,811.289**	**1,852.865**	**1,904.298**	**1,956.033**	**1,997.125**	**2,030.381**	**2,058.427**	**2,084.747**	**2,109.958**	**2,135.834**
Western Neco Power Supply Area	**869.425**	**920.042**	**952.746**	**992.105**	**1,031.668**	**1,064.046**	**1,091.133**	**1,114.704**	**1,137.109**	**1,158.765**	**1,180.870**
West Greenwich	38.326	48.423	55.404	64.382	74.014	82.414	88.548	94.213	99.918	101.821	103.763
Smithfield	49.682	54.376	57.405	61.040	64.679	67.642	69.918	71.889	73.750	75.155	76.588
Glouster	13.031	14.154	14.876	15.739	16.601	17.299	17.843	18.313	18.755	19.112	19.476
Tiverton	19.835	21.390	22.386	23.574	24.755	25.710	26.465	27.115	27.724	28.252	28.791
South Kingstown	57.309	61.400	64.014	67.121	70.201	72.684	74.678	76.391	77.995	79.480	80.997
Charlestown	15.726	16.827	17.530	18.365	19.193	19.859	20.397	20.858	21.290	21.696	22.109
Richmond	12.736	13.614	14.174	14.840	15.499	16.030	16.459	16.827	17.171	17.498	17.832
West Warwick	43.842	46.401	48.026	49.947	51.842	53.360	54.631	55.718	56.732	57.812	58.915
Jamestown	8.555	9.042	9.351	9.716	10.075	10.363	10.606	10.813	11.006	11.216	11.430
Foster	4.590	4.846	5.008	5.200	5.389	5.541	5.669	5.778	5.880	5.992	6.106
Westerly	47.861	50.427	52.054	53.973	55.861	57.371	58.661	59.762	60.788	61.946	63.128
Exeter	8.838	9.304	9.599	9.947	10.290	10.563	10.798	10.999	11.185	11.398	11.616
Scituate	12.032	12.602	12.963	13.387	13.803	14.135	14.427	14.677	14.909	15.193	15.482
Warwick	168.210	175.832	180.648	186.307	191.856	196.278	200.226	203.587	206.712	210.649	214.667
Little Compton	4.925	5.136	5.269	5.425	5.578	5.700	5.810	5.904	5.992	6.106	6.222
Johnston	44.853	46.708	47.877	49.250	50.593	51.662	52.641	53.475	54.249	55.282	56.337
Cranston	118.775	123.291	126.136	129.469	132.725	135.313	137.749	139.818	141.739	144.439	147.194
Coventry	48.418	50.188	51.302	52.606	53.880	54.892	55.856	56.675	57.435	58.529	59.646
North Kingstown	86.373	89.496	91.462	93.763	96.009	97.793	99.499	100.949	102.294	104.242	106.231
Hopkington	10.617	10.969	11.191	11.450	11.702	11.902	12.100	12.267	12.422	12.659	12.901
Narragansett	27.630	28.429	28.931	29.516	30.086	30.537	31.004	31.401	31.768	32.373	32.991
East Greenwich	27.260	27.186	27.141	27.088	27.038	26.999	27.147	27.275	27.394	27.916	28.448
Newport Power Supply Area	**143.543**	**131.813**	**135.844**	**140.742**	**145.666**	**149.654**	**152.951**	**155.791**	**158.478**	**161.067**	**163.715**
Portsmouth	31.467	26.347	28.110	30.258	32.423	34.180	35.460	36.567	37.619	38.234	38.862

Allocation of PSA Coincident Peak Demand Forecast to Towns (MW)

	Peak MW										
Middletown	34.698	29.432	31.244	33.447	35.665	37.464	38.786	39.929	41.012	41.683	42.368
Newport	77.379	76.034	76.490	77.036	77.578	78.010	78.705	79.295	79.846	81.151	82.485
Blackstone Valley Power Supply Area	**270.007**	**293.177**	**294.885**	**297.417**	**299.974**	**301.641**	**302.654**	**303.232**	**303.665**	**304.006**	**304.402**
Lincoln	50.902	70.978	72.414	74.483	76.519	77.815	78.457	78.817	79.082	79.170	79.273
Cumberland	48.222	66.461	67.764	69.641	71.485	72.657	73.240	73.566	73.805	73.888	73.985
North Smithfield	20.075	23.946	24.219	24.609	24.987	25.224	25.350	25.420	25.471	25.499	25.533
Burrillville	8.230	8.689	8.721	8.766	8.810	8.837	8.856	8.867	8.875	8.884	8.896
Woonsocket	51.537	53.240	53.359	53.527	53.688	53.789	53.877	53.927	53.963	54.024	54.094
Pawtucket	75.745	59.423	58.300	56.741	55.265	54.361	54.019	53.837	53.709	53.769	53.839
Central Falls	15.296	10.441	10.109	9.651	9.220	8.958	8.854	8.799	8.760	8.770	8.782
Providence Power Supply Area	**469.396**	**466.257**	**469.390**	**474.035**	**478.725**	**481.784**	**483.642**	**484.701**	**485.496**	**486.121**	**486.847**
Barrington	18.466	18.268	18.467	18.765	19.068	19.267	19.377	19.440	19.488	19.513	19.542
Bristol	31.106	30.826	31.106	31.521	31.942	32.217	32.374	32.464	32.531	32.573	32.622
Providence	300.569	298.149	300.565	304.147	307.766	310.126	311.501	312.285	312.873	313.275	313.744
Warren	14.950	14.862	14.949	15.078	15.208	15.292	15.345	15.375	15.397	15.417	15.440
North Providence	33.666	33.583	33.664	33.783	33.902	33.978	34.045	34.083	34.111	34.155	34.206
East Providence	70.640	70.569	70.639	70.739	70.839	70.903	71.000	71.055	71.096	71.187	71.294
Granite State Electric	**195.374**	**207.058**	**211.766**	**216.686**	**221.258**	**225.065**	**228.508**	**232.001**	**235.545**	**239.064**	**242.616**
Western Granite State Power Supply	**97.359**	**101.956**	**104.862**	**107.907**	**110.661**	**112.761**	**114.560**	**116.411**	**118.295**	**120.149**	**122.026**
Bath	0.014	0.016	0.017	0.018	0.019	0.020	0.021	0.021	0.022	0.022	0.023
Surry	0.065	0.070	0.073	0.076	0.080	0.082	0.084	0.086	0.088	0.090	0.091
Lebanon	52.669	55.895	57.946	60.106	62.070	63.577	64.802	66.069	67.366	68.421	69.490
Grafton	0.015	0.015	0.016	0.016	0.017	0.017	0.017	0.017	0.018	0.018	0.018
Marlow	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010
Charlestown	4.838	5.021	5.135	5.254	5.360	5.441	5.513	5.588	5.663	5.751	5.841
Hanover	23.975	24.795	25.308	25.838	26.312	26.669	27.002	27.341	27.683	28.117	28.557
Enfield	3.951	4.074	4.150	4.229	4.300	4.353	4.404	4.456	4.508	4.578	4.650
Cornish	0.207	0.213	0.217	0.221	0.225	0.227	0.230	0.233	0.235	0.239	0.243
Canaan	2.605	2.679	2.726	2.774	2.817	2.849	2.881	2.913	2.945	2.991	3.038
Plainfield	1.320	1.356	1.378	1.402	1.422	1.438	1.453	1.469	1.485	1.508	1.532
Alstead	1.497	1.525	1.542	1.559	1.575	1.586	1.600	1.613	1.627	1.653	1.678
Walpole	5.057	5.149	5.206	5.264	5.315	5.353	5.399	5.445	5.491	5.577	5.664
Acworth	0.241	0.244	0.246	0.249	0.250	0.252	0.254	0.255	0.257	0.261	0.265
Monroe	0.328	0.330	0.331	0.332	0.333	0.334	0.336	0.338	0.340	0.345	0.350
Orange	0.044	0.044	0.044	0.044	0.043	0.043	0.043	0.044	0.044	0.044	0.045
Langdon	0.527	0.522	0.519	0.516	0.514	0.512	0.513	0.514	0.515	0.523	0.531
Eastern Granite State Power Supply A	**98.015**	**105.102**	**106.904**	**108.779**	**110.597**	**112.304**	**113.947**	**115.590**	**117.249**	**118.915**	**120.590**
Derry	1.411	2.143	2.349	2.588	2.845	3.112	3.336	3.582	3.854	3.909	3.964
Pelham	20.837	24.033	24.848	25.697	26.520	27.291	27.945	28.596	29.249	29.665	30.083
Windham	4.025	4.421	4.520	4.622	4.719	4.808	4.888	4.968	5.046	5.118	5.190
Salem	71.742	74.506	75.187	75.872	76.513	77.093	77.778	78.445	79.100	80.223	81.353

Annual MWh Energy and Trend Growth by Power Supply Area and Town

1. Nantucket PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Nantucket	4.1%	96,775	100,527	108,220	118,424	119,260	121,612	135,332	137,459	142,678	139,490	143,689

2. Western Granite State PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Bath	7.7%	27	30	30	29	33	37	39	49	62	72	58
Surry	5.1%	186	182	180	215	229	231	258	286	300	286	290
Lebanon	4.0%	173,163	183,241	188,863	194,037	204,139	207,788	217,624	232,078	248,211	251,109	259,409
Charlestown	2.5%	19,578	20,007	20,563	21,395	21,817	21,124	22,009	22,708	23,799	24,401	26,159
Marlow	2.5%	34	37	41	41	34	34	32	37	42	43	40
Grafton	2.6%	51	61	67	69	72	88	75	75	74	63	64
Enfield	2.0%	16,760	16,704	17,568	18,174	18,423	18,492	19,189	19,392	20,096	20,265	20,536
Cornish	2.0%	909	913	939	924	978	999	1,065	1,059	1,058	1,020	1,021
Hanover	2.2%	97,350	100,894	105,175	107,722	111,339	114,245	114,258	114,794	119,797	122,074	122,500
Canaan	1.9%	11,333	11,563	11,774	12,166	12,126	12,138	12,601	12,882	13,463	13,606	13,644
Plainfield	1.8%	5,842	5,737	6,058	6,222	6,292	6,241	6,498	6,808	6,898	6,747	6,747
Alstead	1.2%	7,070	7,073	7,367	7,379	7,421	7,264	7,993	8,068	8,081	7,874	7,690
Walpole	1.2%	23,740	24,782	24,818	24,736	25,185	25,172	25,926	26,257	27,251	26,867	26,795
Orange	-0.3%	245	249	255	249	343	231	232	243	250	253	240
Acworth	0.9%	1,193	1,197	1,202	1,249	1,239	1,159	1,365	1,306	1,278	1,284	1,282
Langdon	-0.6%	3,145	3,111	3,208	3,160	3,101	2,984	3,274	2,936	2,990	2,981	2,980
Monroe	0.4%	1,693	1,712	1,814	1,789	1,682	1,693	1,754	1,792	1,832	1,813	1,833
Western Geco PSA	3.0%	362,320	377,492	389,924	399,555	414,454	419,921	434,193	450,770	475,481	480,758	491,288

3. Uxbridge PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Upton	4.7%	24,798	26,168	27,737	28,992	30,114	32,791	34,348	36,378	39,110	37,023	38,320
Uxbridge	4.0%	56,161	58,100	60,888	63,037	65,899	68,885	74,185	75,638	80,010	79,972	82,243
Millville	3.6%	8,729	9,030	9,562	9,642	9,805	11,091	11,815	11,944	12,541	11,909	11,561
Mendon	3.6%	23,777	24,259	25,973	26,927	27,958	29,547	31,047	31,733	33,190	32,117	32,540
Whitinsville	2.7%	77,774	80,992	84,726	85,673	90,166	93,104	93,520	94,311	101,398	99,729	103,198
Blackstone	2.6%	31,448	32,316	33,930	35,829	38,209	37,078	39,035	39,321	40,876	39,296	39,230
Milford	2.3%	263,830	270,646	274,150	281,863	303,438	314,477	309,794	313,165	325,327	323,766	335,366
Douglas	2.3%	36,064	36,544	37,803	38,500	39,021	40,842	43,971	46,136	46,888	42,664	42,327
Hopedale	1.9%	30,714	31,072	33,912	34,546	35,416	33,705	36,050	36,497	38,541	36,948	37,741
Uxbridge PSA	2.7%	553,294	569,128	588,682	605,009	640,025	661,521	673,763	685,123	717,882	703,425	722,525

Annual MWh Energy and Trend Growth by Power Supply Area and Town

4. Marlboro PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Southboro	7.0%	79,232	87,965	92,119	98,092	117,438	130,672	135,859	140,947	147,587	152,141	149,568
Marlboro	2.8%	485,318	499,171	539,009	561,007	581,420	572,182	571,379	588,573	618,384	622,374	651,725
Northboro	2.4%	97,893	98,052	104,276	108,654	112,159	111,029	115,546	118,511	124,079	122,834	124,748
Westboro	1.3%	344,352	344,288	347,204	357,362	371,451	376,223	376,130	375,149	390,773	377,861	387,680
Marlboro PSA	2.7%	1,006,795	1,029,476	1,082,608	1,125,115	1,182,467	1,190,106	1,198,913	1,223,179	1,280,823	1,275,210	1,313,722

5. Western Narragansett PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
West Greenwich	11.0%	48,639	49,526	50,070	47,305	61,029	69,278	82,567	113,234	119,179	118,906	132,788
Smithfield	4.1%	134,793	143,621	152,484	156,989	170,886	183,644	187,872	189,462	196,021	194,934	198,442
Glouster	3.7%	38,325	39,141	40,804	41,399	42,762	45,392	51,987	51,882	54,102	52,270	54,114
Tiverton	3.4%	59,552	61,399	66,688	68,145	69,702	76,551	76,764	76,602	80,457	82,526	83,220
South Kingstown	3.1%	179,847	188,654	197,445	197,685	204,256	219,874	224,883	234,389	240,846	237,204	243,448
Charlestown	3.0%	49,999	50,375	53,079	55,674	57,355	59,636	64,576	66,068	66,070	63,685	66,137
Richmond	3.0%	39,170	42,518	45,614	46,262	48,119	50,242	51,197	52,924	54,981	51,691	50,790
West Warwick	2.5%	148,713	156,251	159,917	161,325	166,931	172,929	176,372	186,020	192,108	185,009	188,545
Jamestown	2.5%	.	.	.	31,240	32,293	33,511	35,860	36,349	37,765	35,903	36,963
Foster	2.4%	16,008	15,992	16,644	17,112	17,193	17,952	19,110	19,557	20,351	19,432	20,022
Westerly	2.3%	168,318	172,870	176,666	178,675	184,061	188,950	198,750	205,277	211,402	204,383	208,514
Exeter	2.3%	30,265	31,566	33,009	33,801	34,352	35,673	37,872	39,342	42,145	36,579	35,143
Scituate	2.1%	43,752	44,092	46,140	45,982	47,078	49,145	50,838	52,292	54,294	52,436	52,147
Warwick	2.0%	611,698	624,579	651,085	655,190	681,394	700,315	724,481	732,862	746,302	722,235	735,582
Little Compton	1.9%	18,359	18,408	18,581	19,676	20,648	20,146	21,895	21,728	22,343	20,215	22,024
Johnston	1.8%	170,923	170,611	177,913	176,377	180,695	191,378	188,816	192,862	198,624	197,536	203,751
Cranston	1.7%	445,774	459,690	475,739	478,577	499,429	524,147	522,944	513,795	534,616	513,690	525,603
Coventry	1.6%	186,224	189,330	196,110	198,877	198,112	200,881	208,754	210,906	221,016	213,260	222,212
North Kingstown	1.6%	319,356	347,757	361,914	371,942	383,887	392,498	386,587	404,500	368,938	352,057	373,100
Hopkington	1.5%	42,544	42,728	41,090	42,743	43,276	44,277	46,411	47,711	50,470	46,682	48,812
Narragansett	1.3%	109,538	111,481	114,444	117,323	119,134	120,948	126,589	126,907	127,184	121,294	122,445
East Greenwich	-0.1%	126,957	132,597	135,076	136,638	137,396	138,241	137,954	144,558	137,594	117,296	119,921
Western Neco PSA	2.4%	2,988,755	3,093,186	3,210,511	3,278,936	3,399,987	3,535,610	3,623,078	3,719,226	3,776,806	3,639,224	3,743,722

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6. Attleboro PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Franklin	4.9%	246,091	271,866	340,118	366,299	397,513	390,446	393,122	393,991	396,625	392,385	405,907
Wrentham	4.0%	67,976	77,195	84,281	85,507	91,875	93,736	96,742	101,318	103,438	100,051	102,184
Bellingham	3.8%	57,378	58,516	61,362	61,217	64,890	65,956	69,123	71,722	78,185	82,420	84,390
Rehoboth	3.3%	47,860	48,376	50,480	52,077	53,986	55,162	58,411	61,303	65,619	63,596	64,804
Norton	2.9%	102,017	105,857	114,060	113,979	117,818	122,165	129,851	131,471	136,062	132,777	133,332
Foxboro	2.6%	136,016	134,680	139,455	139,114	147,518	159,563	175,071	172,222	174,143	164,688	167,456
Plainville	2.3%	49,648	49,215	53,578	55,807	54,579	53,277	55,395	56,564	60,661	61,102	63,044
Seekonk	2.1%	108,482	111,902	116,844	117,033	117,846	122,082	127,180	126,915	132,909	130,452	132,952
Attleboro	-1.0%	424,956	424,396	425,412	412,907	402,768	410,946	411,931	406,688	402,833	379,375	378,588
Attleboro PSA	2.2%	1,240,371	1,282,004	1,385,591	1,403,939	1,448,793	1,473,332	1,516,825	1,522,194	1,550,476	1,506,847	1,532,657

7. Webster PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Charlton	4.5%	70,757	73,133	79,000	93,080	92,348	91,409	101,487	104,990	107,866	107,879	106,939
Sutton	3.3%	45,143	46,108	49,038	51,680	53,978	54,652	59,076	60,476	61,518	59,920	61,686
Millbury	2.4%	103,140	106,249	109,674	109,942	105,464	106,036	110,998	123,682	130,516	127,430	132,415
Dudley	2.4%	62,740	63,893	66,959	69,983	74,209	73,851	74,295	79,764	80,147	76,898	76,411
Grafton	2.4%	127,463	129,906	120,519	123,686	128,136	128,227	134,848	141,732	155,608	154,530	159,975
Sturbridge	2.3%	101,698	103,411	106,944	114,430	127,647	130,656	126,991	125,699	128,846	123,768	123,754
Spencer	1.6%	76,772	76,441	81,287	84,835	82,391	84,844	87,048	88,394	90,723	88,462	87,675
Southbridge	1.3%	111,852	114,416	118,390	121,353	122,170	123,415	123,799	126,537	130,214	127,328	124,372
Oxford	1.2%	92,561	93,283	96,764	99,276	93,669	95,770	97,512	98,092	101,328	100,579	107,680
Webster	0.4%	130,396	125,868	130,396	131,030	129,778	132,601	135,756	137,509	138,015	133,247	132,651
Webster PSA	2.1%	922,485	932,710	958,971	999,295	1,009,792	1,021,462	1,051,810	1,086,876	1,124,781	1,100,041	1,113,559

8. Eastern Granite State PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Derry	15.0%	1,130	1,060	1,099	1,169	1,260	1,672	2,103	2,418	3,656	4,249	4,836
Pelham	4.7%	49,283	53,699	58,824	61,792	64,742	67,480	71,904	74,178	78,029	80,718	76,777
Windham	3.0%	13,124	12,788	13,599	13,666	14,021	14,241	14,954	16,206	17,092	16,207	16,242
Salem	1.2%	281,048	285,774	297,021	283,993	298,295	305,086	310,444	315,581	327,052	309,436	307,926
Eastern Geco PSA	1.9%	344,558	353,321	370,544	360,620	378,318	388,479	399,404	408,382	425,829	410,610	405,781

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9. Essex PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Beverly	3.0%	256,324	274,238	290,301	302,969	320,348	323,574	333,133	333,974	337,153	334,086	345,232
Wenham	2.6%	21,510	22,313	23,552	24,651	25,279	25,970	27,543	27,954	28,401	27,199	27,339
Topsfield	2.5%	28,664	29,580	31,885	31,764	33,400	32,358	35,846	36,025	37,340	36,334	36,631
Hamilton	2.3%	34,682	34,996	36,995	37,532	39,309	37,611	41,029	42,783	43,394	42,248	42,261
Manchester	2.3%	27,159	27,484	28,388	29,251	30,124	30,823	32,716	32,845	33,243	32,796	32,957
Essex	1.3%	20,019	19,553	19,943	20,617	21,095	21,201	22,268	22,284	22,386	21,464	21,629
Salem	1.2%	263,881	274,695	289,118	293,252	297,900	304,719	314,087	304,990	306,488	295,886	300,982
Gloucester	0.9%	242,194	243,101	251,212	255,653	253,207	246,146	258,312	267,409	267,917	259,107	260,444
Rockport	0.7%	44,299	43,792	44,466	46,069	46,953	45,731	49,863	48,540	48,663	46,152	46,408
Essex PSA	1.8%	938,731	969,752	1,015,861	1,041,758	1,067,615	1,068,133	1,114,797	1,116,804	1,124,984	1,095,271	1,113,883

10. Providence PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Barrington	2.9%	62,123	63,880	67,462	70,152	72,486	75,197	79,075	80,351	83,132	79,898	80,866
Bristol	2.4%	114,845	116,402	120,800	119,933	122,303	126,408	134,506	136,331	143,916	140,451	144,570
Providence	2.2%	1,118,424	1,139,962	1,194,662	1,242,896	1,255,059	1,280,209	1,313,538	1,347,310	1,394,805	1,355,152	371,317
North Providence	0.7%	159,245	163,802	162,829	148,556	154,819	158,034	162,683	163,681	169,531	162,805	165,190
East Providence	0.3%	336,971	347,575	352,983	352,395	357,051	347,364	340,215	339,480	355,597	349,478	351,919
Warren	1.6%	59,355	61,345	63,705	63,999	66,330	68,965	70,137	70,547	70,734	67,350	67,992
Providence PSA	1.7%	1,850,963	1,892,966	1,962,442	2,997,932	2,028,047	2,056,177	2,100,155	2,137,700	2,217,715	2,155,134	1,181,854

11. Palmer PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Belchertown	3.6%	56,093	55,695	59,193	60,443	62,947	66,716	73,285	74,938	77,993	75,083	77,122
East Longmeadow	3.1%	165,816	168,044	181,987	189,256	197,399	200,284	209,195	216,055	219,410	220,089	226,222
Wilbraham	2.9%	61,457	63,735	67,859	69,292	71,577	74,724	77,153	79,234	83,494	79,676	80,106
Brimfield	2.5%	16,683	16,413	17,047	17,699	18,146	19,008	20,508	20,591	21,184	20,025	20,572
Hampden	2.2%	21,672	21,836	23,191	23,302	23,969	24,542	25,891	26,117	27,569	26,085	26,807
Hardwick	1.9%	13,377	13,405	13,707	13,897	13,839	15,008	15,211	15,644	15,421	16,200	15,685
Wales	1.8%	7,789	7,724	8,092	8,437	8,328	8,796	9,201	9,226	9,105	9,098	9,131
Granby	1.8%	24,840	25,188	26,571	26,595	27,815	29,429	29,653	29,866	28,787	29,608	29,863
Holland	1.7%	10,850	10,694	11,182	11,685	11,784	11,977	12,915	12,955	12,713	12,520	12,680
Ware	1.2%	71,850	72,026	77,225	77,716	75,500	75,560	77,556	79,331	80,747	80,254	82,560
Monson	1.1%	45,241	44,974	46,378	46,714	47,721	46,883	49,340	49,964	50,530	48,915	50,067
Warren	-1.1%	34,834	33,400	32,967	32,791	32,850	33,047	33,789	33,363	34,050	30,711	27,858
Palmer-3Rivers	-1.7%	112,030	105,713	110,509	111,953	110,621	104,905	102,734	95,818	100,101	95,622	96,428
Palmer PSA	1.7%	642,424	638,846	675,907	689,780	702,496	710,881	736,432	743,099	761,103	743,884	755,100

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12. South Berkshire PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alford	2.5%	3,087	3,004	3,251	3,417	3,495	3,497	3,824	3,863	3,975	3,791	3,843
Sheffield	2.5%	44,473	43,869	49,175	50,677	48,956	51,333	51,927	55,326	54,024	54,171	55,004
Monterey	2.2%	5,922	5,622	6,168	6,343	6,447	6,463	7,094	7,109	7,357	7,002	7,245
Mt.Washington	1.7%	1,323	1,276	1,346	1,404	1,454	1,353	1,632	1,656	1,569	1,457	1,522
New Marlboro	1.7%	9,395	9,315	9,978	10,375	10,248	10,298	10,863	11,385	11,496	10,794	11,001
Lenox	1.6%	48,153	48,019	50,511	50,848	52,507	53,755	56,732	56,727	57,000	54,512	55,299
Egremont	1.4%	10,986	10,110	10,769	11,685	11,029	11,718	11,475	12,258	13,297	11,624	11,374
Stockbridge	1.4%	21,441	21,127	22,146	22,285	22,953	23,203	24,302	24,084	25,247	24,240	24,220
W.Stockbridge	1.4%	9,138	8,967	9,350	9,410	9,744	9,890	10,530	10,513	10,762	10,117	10,264
Gt. Barrington	1.4%	73,733	73,728	77,286	79,704	79,788	83,707	84,830	84,790	88,547	84,669	76,695
South Berkshire	1.7%	227,652	225,036	239,981	246,149	246,620	255,216	263,209	267,712	273,275	262,377	256,467

13. Brockton PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Halifax	3.50%	.	.	.	31,396	32,830	34,759	35,692	36,426	40,244	38,880	39,501
Whitman	3.10%	.	.	.	61,290	64,018	66,368	71,971	72,108	76,444	74,387	74,797
Cohasset	2.90%	.	.	.	46,962	50,487	50,812	55,261	55,969	57,577	59,210	56,331
Pembroke	2.70%	.	.	.	92,484	98,254	100,113	104,477	107,310	113,208	110,354	111,530
Abbington	2.50%	.	.	.	74,842	77,889	80,128	83,306	83,169	88,220	85,688	90,428
Rockland	2.30%	.	.	.	112,548	118,045	124,354	128,737	129,772	135,188	132,193	132,576
East Bridgewater	2.30%	.	.	.	65,134	67,781	68,997	73,040	74,459	77,293	74,358	76,085
Scituate	2.30%	.	.	.	75,479	80,328	81,825	86,281	87,615	90,753	87,773	88,754
Easton	2.10%	.	.	.	160,783	172,830	174,736	183,025	192,230	192,222	185,873	187,874
Hanover	1.90%	.	.	.	103,653	110,975	111,671	115,831	117,341	122,068	118,813	119,708
Norwell	1.80%	.	.	.	88,909	93,065	94,130	97,313	98,707	101,614	100,954	100,760
Bridgewater	1.80%	.	.	.	131,793	140,069	144,206	150,477	152,946	158,976	151,628	147,336
Avon	1.70%	.	.	.	73,906	72,970	72,156	72,247	71,666	78,068	79,428	82,512
Hanson	1.30%	.	.	.	49,290	50,771	51,888	54,377	54,367	56,236	53,366	54,034
Brockton	1.10%	.	.	.	541,320	555,343	564,298	582,516	585,264	599,576	580,377	581,627
Stoughton	0.80%	.	.	.	185,514	196,773	194,826	200,076	198,107	206,657	189,412	204,295
Sharon	0.50%	.	.	.	865	931	882	934	928	1,015	868	906
West Bridgewater	-0.20%	.	.	.	74,655	73,881	74,958	76,717	73,498	73,547	71,489	75,450
Brockton PSA	1.7%	.	.	.	1,970,823	2,057,242	2,091,108	2,172,276	2,191,880	2,268,904	2,195,049	2,224,505

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14. Merrimack Valley PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Westford	4.4%	159,404	183,220	190,199	210,197	232,426	249,930	239,214	244,681	244,224	235,679	244,489
Boxford	3.6%	33,417	34,298	36,581	37,044	39,965	42,211	44,358	44,371	46,640	45,429	45,777
Methuen	3.2%	228,783	237,380	242,820	254,967	278,474	289,598	293,479	300,556	310,555	299,723	305,710
Billerica	2.8%	406,596	416,947	432,088	439,100	468,005	474,439	490,441	496,986	525,583	520,957	526,837
Dracut	2.6%	112,780	113,076	118,702	118,789	121,516	127,619	135,422	137,006	143,968	138,680	142,143
Tyngsboro	2.6%	64,777	67,192	71,936	73,989	77,417	81,579	84,020	80,534	82,133	80,238	82,068
Chelmsford	2.4%	276,159	283,766	295,600	314,737	327,909	336,889	328,463	335,055	347,244	343,693	349,882
Salisbury	2.2%	49,335	50,472	53,986	55,272	56,213	56,756	60,501	59,813	61,789	59,983	60,450
West Newbury	2.0%	18,213	18,425	19,155	19,579	20,609	21,112	22,177	22,030	22,742	20,228	22,050
Newbury	2.0%	34,043	33,872	35,583	36,692	37,270	39,157	40,409	40,274	42,320	37,748	41,400
Tewksbury	1.6%	218,140	229,568	238,277	238,851	248,345	252,024	252,977	251,198	260,934	258,087	258,712
Amesbury	1.6%	90,719	91,479	92,759	95,160	100,268	99,871	102,387	104,846	105,653	104,585	104,145
Haverhill	1.5%	349,887	360,470	374,526	376,209	388,659	397,526	392,272	397,616	403,261	392,941	413,776
Newburyport	1.1%	159,850	167,070	172,499	175,867	182,023	176,699	178,233	176,836	182,360	174,039	178,788
Lawrence	0.7%	465,550	466,810	450,431	443,380	459,211	477,470	467,743	469,159	489,199	461,429	477,690
Lowell	0.60%	643,688	654,647	682,629	696,045	709,417	709,811	700,888	688,300	691,606	671,151	689,275
Andover	0.50%	523,656	535,970	530,217	529,780	556,343	564,582	552,261	528,112	535,815	536,766	557,746
No. Andover	0.10%	301,688	305,151	280,662	273,999	281,018	295,350	300,623	282,890	307,906	307,349	304,766
Merrimack Valley	1.6%	4,136,559	4,249,814	4,318,650	4,389,657	4,585,086	4,692,624	4,685,867	4,660,262	4,803,933	4,688,705	4,805,704

15. Athol PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Phillipston	2.7%	6,251	6,153	6,542	6,855	7,271	7,187	7,741	7,798	8,283	7,729	7,976
Barre	2.6%	23,192	23,234	24,346	25,318	26,139	26,516	28,972	29,360	29,985	28,152	28,622
Petersham	2.5%	5,042	5,060	5,208	5,365	5,521	5,372	6,011	6,215	6,608	6,235	6,308
Wendall	2.1%	3,420	3,429	3,695	3,845	3,940	3,849	4,300	4,297	4,275	4,100	4,020
Warwick	2.0%	2,541	2,614	2,732	2,927	2,987	2,904	3,128	3,229	3,497	2,975	2,920
New Salem	1.3%	4,182	4,411	4,230	4,041	4,587	4,729	4,976	4,875	4,774	4,560	4,608
Athol	1.3%	65,813	67,527	69,555	70,059	72,253	72,337	75,311	76,336	75,724	72,883	73,150
Shutesbury	1.2%	6,193	6,193	6,427	6,309	6,297	6,651	7,151	7,180	7,048	6,801	6,735
Royalston	1.1%	5,062	5,017	5,160	5,433	5,365	5,379	5,729	5,336	6,009	5,300	5,324
Orange	1.0%	59,397	62,690	64,101	65,166	63,371	64,272	68,203	69,837	70,137	67,361	61,754
Erving	0.8%	45,440	47,618	50,491	49,849	51,122	51,122	49,906	52,090	51,605	45,855	51,694
Athol PSA	1.4%	226,532	233,947	242,486	245,166	248,854	250,317	261,429	266,556	267,945	251,951	253,111

Annual MWh Energy and Trend Growth by Power Supply Area and Town

16. Gardner PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Hubbardston	2.9%	14,627	14,837	15,803	15,838	16,842	17,649	18,478	19,076	19,291	18,810	19,043
Winchendon	2.0%	42,033	41,862	43,933	44,623	46,229	46,606	49,704	50,375	52,643	49,179	49,739
Westminster	1.5%	62,368	63,936	67,372	71,466	71,598	71,265	72,349	76,104	73,961	67,687	66,516
Gardner	0.9%	133,423	134,616	144,432	146,181	147,436	145,154	148,242	148,067	151,524	145,443	147,247
Gardner PSA	1.3%	252,451	255,252	271,541	278,108	282,105	280,675	288,774	293,623	297,419	281,118	282,544

17. Worcester PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Rutland	4.7%	22,677	23,191	24,971	26,017	26,938	28,561	31,161	33,033	34,670	34,256	34,822
Oakham	2.8%	7,047	7,196	7,546	7,719	8,127	8,090	8,740	9,006	9,365	9,130	9,188
New Braintree	2.7%	5,519	5,511	5,741	6,260	6,044	6,348	6,740	6,694	7,071	6,843	6,810
E. Brookfield	2.4%	9,419	9,445	9,906	9,894	10,217	10,665	11,332	11,400	11,933	11,565	11,885
Brookfield	2.4%	13,527	13,164	13,552	13,963	14,692	14,913	15,879	16,534	16,797	16,188	16,375
Leicester	1.9%	50,841	49,767	51,036	51,654	52,690	50,500	57,099	57,227	58,403	57,191	61,714
W. Brookfield	1.6%	20,840	20,982	21,460	22,117	22,447	22,644	24,289	24,168	25,090	23,489	23,553
Worcester	1.2%	1,356,748	1,386,029	1,408,202	1,438,052	1,456,734	1,475,928	1,491,348	1,506,901	1,546,247	1,502,518	1,535,374
N. Brookfield	1.1%	34,296	35,640	37,218	37,906	40,710	43,720	45,478	39,431	38,694	36,181	36,579
Auburn	0.7%	158,030	161,343	168,196	168,437	165,397	167,216	168,843	172,170	172,750	165,844	168,614
Worcester PSA	1.3%	1,678,944	1,712,269	1,747,829	1,782,020	1,803,997	1,828,585	1,860,909	1,876,564	1,921,019	1,863,205	1,904,914

18. Suburban PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Everett	3.8%	205,930	202,895	231,759	235,335	252,058	266,317	289,283	284,069	283,581	289,017	285,438
Revere	1.5%	217,150	215,577	218,711	219,014	230,930	234,350	250,994	237,114	248,702	241,172	249,843
Nahant	1.5%	13,556	13,644	13,897	14,191	14,180	14,847	15,340	15,038	15,492	15,047	16,211
Swampscott	1.4%	71,935	73,150	75,984	75,896	79,079	83,510	82,864	80,605	83,061	80,045	82,136
Medford	1.3%	304,412	307,894	314,928	312,087	328,859	331,016	337,326	327,955	340,847	336,106	351,602
Melrose	1.1%	108,445	109,113	113,166	111,886	116,416	117,850	119,643	118,718	121,730	117,053	121,798
Saugus	0.9%	187,027	186,590	191,512	191,488	198,202	200,500	206,796	205,430	211,092	191,397	201,242
Malden	0.8%	276,534	277,976	287,520	288,672	296,720	296,522	299,875	294,807	305,149	295,144	299,305
Winthrop	0.8%	65,718	65,299	66,713	67,087	68,448	67,954	71,621	70,591	72,452	67,581	69,420
Lynn	0.3%	484,965	421,052	407,888	405,574	422,487	423,829	443,929	429,723	452,208	419,234	443,717
Suburban PSA	1.3%	1,935,672	1,873,190	1,922,077	1,921,230	2,007,377	2,036,694	2,117,670	2,064,050	2,134,314	2,051,796	2,120,713

Annual MWh Energy and Trend Growth by Power Supply Area and Town

19. Adams PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Hancock	7.6%	10,324	8,781	11,135	11,239	11,951	12,979	15,726	18,040	19,483	18,400	18,746
Charlemont	1.9%	7,281	7,118	7,492	7,797	8,014	8,052	8,603	8,690	8,953	8,512	8,392
Florida-Drury	1.7%	2,677	2,654	2,898	2,867	2,893	3,007	3,010	3,012	3,118	3,094	3,226
Adams	1.5%	85,995	81,921	87,848	91,564	87,119	89,483	91,053	104,123	103,462	95,698	93,242
Heath	1.2%	3,061	3,051	3,260	3,341	3,344	3,393	3,701	3,530	3,554	3,357	3,348
Rowe	1.0%	.	.		5,366	5,394	5,233	5,318	5,554	5,634	5,558	5,723
Williamstown	0.7%	73,238	74,774	76,961	79,558	81,583	80,006	82,770	81,520	81,956	77,581	76,819
Clarksburg	0.6%	5,481	5,594	5,673	5,789	5,745	5,727	5,954	5,862	5,908	5,788	5,822
Cheshire	0.5%	14,437	13,953	13,845	13,723	13,964	14,167	15,017	14,997	15,190	14,491	14,566
Hawley	0.5%	1,389	1,329	1,411	1,427	1,472	1,445	1,536	1,527	1,548	1,393	1,364
North Adams	0.4%	93,645	93,888	96,393	95,594	95,899	96,663	96,379	96,893	100,458	95,655	96,821
Monroe	-12.4%	5,460	4,680	4,845	3,906	4,136	4,257	4,273	3,116	2,211	1,570	1,136
Adams PSA	1.2%	302,933	297,742	311,761	322,171	321,511	324,411	333,340	346,864	351,475	331,098	329,207

20. Weymouth PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Weymouth	1.6%	289,716	287,916	295,852	296,576	314,873	337,689	342,334	331,616	345,590	329,688	333,931
Quincy	1.1%	606,487	614,306	636,754	633,437	649,558	646,076	653,750	654,930	678,250	667,303	675,904
Holbrook	1.0%	55,112	53,486	55,051	55,942	62,178	56,138	58,927	61,510	64,375	60,014	60,994
Randolph	0.6%	167,630	171,482	174,139	174,601	181,833	177,005	183,236	180,149	182,629	175,982	177,515
Hingham	-3.0%	.	.		5,764	6,104	6,066	5,837	5,577	5,377	5,392	4,672
Weymouth PSA	1.2%	1,118,945	1,127,189	1,161,796	1,166,319	1,214,546	1,222,974	1,244,084	1,233,782	1,276,220	1,238,378	1,253,016

Annual MWh Energy and Trend Growth by Power Supply Area and Town

21. Newport PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Portsmouth	1.8%	.	.	.	109,514	112,887	112,151	119,366	124,385	126,677	119,426	123,303
Middletown	1.7%	.	.	.	121,796	126,047	125,723	133,514	136,991	138,810	133,239	136,869
Newport	0.2%	.	.	.	310,134	323,740	321,550	333,356	330,811	329,102	318,259	318,526
Newport PSA	0.9%	.	.	.	541,444	562,673	559,424	586,237	592,187	594,590	570,924	578,698

22. Northampton PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Goshen	1.8%	3,792	3,651	3,784	4,110	3,982	4,095	4,406	4,409	4,502	4,304	4,303
Williamsburg	1.3%	12,674	12,370	12,909	12,856	13,063	13,312	14,096	14,122	14,335	13,582	14,175
Northampton	0.7%	232,563	235,578	239,969	240,492	245,273	245,874	247,396	250,528	255,816	244,113	248,379
Northampton PSA	0.7%	249,028	251,599	256,662	257,458	262,318	263,281	265,898	269,059	274,653	262,000	266,857

23. Leominster PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Dunstable	4.1%	10,343	10,638	11,615	11,593	12,621	12,838	13,956	14,485	15,466	14,664	14,990
Berlin	3.3%	11,550	11,802	12,692	12,978	13,421	14,088	15,405	15,810	16,204	15,008	15,414
Shirley	2.9%	47,281	54,700	58,190	59,107	60,911	61,076	63,490	63,336	64,156	63,636	64,766
Bolton	2.5%	32,346	33,825	34,772	37,596	40,554	41,493	42,599	42,896	42,840	38,786	39,246
Lancaster	2.4%	35,245	35,668	36,908	37,986	38,174	38,286	40,799	41,995	43,942	43,049	44,177
Harvard	2.1%	25,828	25,843	27,218	27,423	28,630	29,165	31,560	31,156	32,243	30,594	30,936
Ayer	1.9%	82,985	90,808	99,340	96,375	98,731	97,832	96,003	101,529	100,077	102,278	106,759
Groton	1.1%	.	.	21,235	21,874	19,706	23,162	23,486	23,845	23,268	23,918	21,515
Clinton	0.2%	130,750	136,640	140,229	141,022	143,073	141,416	144,640	143,798	141,212	133,600	133,524
Pepperell	0.0%	54,892	55,442	59,079	59,368	61,794	58,813	56,637	56,363	58,098	54,753	55,469
Leominster	-0.7%	514,410	516,870	529,018	526,791	496,657	488,280	491,655	490,426	492,291	484,907	478,808
Leominster PSA	0.6%	945,538	972,236	1,030,295	1,032,112	1,014,272	1,006,448	1,020,232	1,025,640	1,029,797	1,005,193	1,005,604

Annual MWh Energy and Trend Growth by Power Supply Area and Town

24. Blackstone PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Lincoln	2.5% .	.	.		205,907	212,656	217,515	226,697	228,931	235,636	239,634	244,953
Cumberland	2.4% .	.	.		196,302	199,306	205,185	216,725	226,145	235,396	226,219	222,949
North Smithfield	1.2% .	.	.		91,713	92,131	96,776	96,337	99,202	100,312	98,521	99,104
Burrillville	0.4% .	.	.		36,493	38,551	43,426	54,461	46,689	36,787	43,832	38,113
Woonsocket	0.2% .	.	.		267,133	266,128	265,054	259,380	255,751	267,620	264,645	274,401
Pawtucket	-1.4% .	.	.		447,467	442,960	443,705	438,628	431,742	432,773	408,233	407,802
Central Falls	-2.0% .	.	.		98,081	98,657	92,744	92,393	84,707	87,701	85,964	88,060
Blackstone PSA	0.3% .	.	.		1,343,097	1,350,390	1,364,403	1,384,622	1,373,166	1,396,225	1,367,047	1,375,381

25. Fall River PSA

Town	Trend Growth Rate	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Dighton	3.1% .	.	.		24,509	27,289	26,763	28,146	29,542	31,485	30,278	30,672
Westport	2.2% .	.	.		22,378	23,538	25,440	25,655	26,236	27,167	25,760	26,621
Somerset	1.3% .	.	.		87,101	91,468	96,094	100,333	99,799	102,737	95,486	95,528
Swansea	1.1% .	.	.		89,911	93,309	94,115	96,962	96,601	99,507	96,287	97,889
Fall River	-1.0% .	.	.		639,170	633,865	640,559	651,230	642,978	640,828	601,687	586,920
Fall River PSA	-0.3% .	.	.		863,069	869,468	882,971	902,326	895,155	901,724	849,498	837,630

Division 2-7

Request:

With regard to the discussion of forecasted load growth in the Tiverton area, on pages 4-5 of the SRP Supplement, please provide whatever information the Company has with regard to how much of the load growth is due to the residential sector versus the commercial sector.

Response:

The spreadsheet provided as Attachment DIV 2-7 shows that the residential sector accounts for approximately 84% of load growth in Tiverton and Little Compton while the commercial sector accounts for approximately 16%.

Prepared by or under the supervision of Alfred P Morrissey, Jr.

Attachment to the Response to Division 2-7
Tiverton and Little Compton Load Growth, 2008-2011

	KWH				Annual Growth Rates			KWh Change	%KWh Change	Avg Ann Growth	% of KWh Growth
Year	**2008**	**2009**	**2010**	**2011**	**2009**	**2010**	**2011**	**2008-2011**	**2008-2011**	**2008-2011**	**2008-2011**
Town	**Tiverton**	**Tiverton**	**Tiverton**	**Tiverton**	**Tiverton**	**Tiverton**	**Tiverton**	**Tiverton**	**Tiverton**	**Tiverton**	**Tiverton**
Residential	51,223,749	54,625,013	58,309,936	58,613,951	6.6%	6.7%	0.5%	7,390,202	14.4%	4.6%	85%
Business	20,314,363	21,109,289	23,248,451	21,622,590	3.9%	10.1%	-7.0%	1,308,227	6.4%	2.1%	15%
Total	71,538,112	75,734,302	81,558,387	80,236,541	5.9%	7.7%	-1.6%	8,698,429	12.2%	3.9%	100%
Town	**L Compton**	**L Compton**	**L Compton**	**L Compton**	**L Compton**	**L Compton**	**L Compton**	**L Compton**	**L Compton**	**L Compton**	**L Compton**
Residential	16,944,988	18,742,531	19,305,554	19,559,732	10.6%	3.0%	1.3%	2,614,744	15.4%	4.9%	80%
Business	2,788,890	3,170,544	3,383,815	3,433,668	13.7%	6.7%	1.5%	644,778	23.1%	7.2%	20%
Total	19,733,878	21,913,075	22,689,369	22,993,400	11.0%	3.5%	1.3%	3,259,522	16.5%	5.2%	100%
Town	**Total**	**Total**	**Total**	**Total**	**Total**	**Total**	**Total**	**Total**	**Total**	**Total**	**Total**
Residential	68,168,737	73,367,544	77,615,490	78,173,683	7.6%	5.8%	0.7%	10,004,946	14.7%	4.7%	84%
Business	23,103,253	24,279,833	26,632,266	25,056,258	5.1%	9.7%	-5.9%	1,953,005	8.5%	2.7%	16%
Total	91,271,990	97,647,377	104,247,756	103,229,941	7.0%	6.8%	-1.0%	11,957,951	13.1%	4.2%	100%

Division 2-8

Request:

With regard to the discussion of forecasted load growth in the Tiverton area, on pages 4-5 of the SRP Supplement, please provide whatever information the Company has with regard to how much of the load growth is due to new construction versus existing buildings.

Response:

The Company does not ordinarily monitor load growth due to a specific sector, such as new construction or existing buildings. However since this pilot is dependent on a geographically targeted area and population, the Company has reached out to the Tiverton and Little Compton Town Administrators to obtain the number of building permits pulled for both new construction and existing buildings over the last few years. This information will show whether or not a trend exists in terms of local development, and therefore increased load growth, in the Tiverton and Little Compton areas specifically in the new construction and existing buildings sector. As this is a manual process for the towns, the information was not available at the time of the submittal of this set of data requests. The Company will provide this information upon receipt by the towns, if the towns agree to provide the data.

Prepared by or under the supervision of: Christina Skursky

Division 2-9

Request:

Will the SRP pilot program provide energy efficiency and demand response measures to new construction buildings in the Tiverton/Little Compton area? If so, how? How will these measures compare with those offered through the Residential New Construction and the Energy Wise programs in the Energy Efficiency Program Plan for 2012?

Response:

The current forecast of activities for the SRP pilot does not include providing energy efficiency and demand response measures to new construction buildings in the Tiverton/Little Compton area. The forecast was based on activities planned for 2012 and then projected outward, assuming the same measures and delivery model are being offered and utilized respectively. The 2012 pilot delivery is designed to offer wifi programmable controllable thermostats (PCTs) to customers in the area through the Energy*Wise* program, and enhanced, demand response ballasts through the Small Business Direct Install program. Both would be offered as part of the audit process in each of those programs and are part of the Company's retro-fit program offerings. The Company will consider the New Construction program as a potential avenue for savings in the Pilot in future years if additional peak load reduction is needed, and such a method is supported by detailed analysis of factors influencing load growth as mentioned in the Company's response to Division 2-8. The Company will report on any conclusions in future SRP Annual Reports.

Prepared by or under the supervision of: Lindsay Perry

Division 2-10

Request:

With regard to the cost-benefit analysis presented in Table S-2 on page 18 of the SRP Supplement, please provide a similar analysis assuming that the Tiverton feeder upgrade can be deferred for eight years.

Response:

Since this is a pilot, the strategies employed to achieve the annual load reduction (and their costs and benefit values) are reasonably expected to change between 2012 and 2021, the last year of the hypothetical eight-year deferral.

Given large uncertainties in key inputs, a benefit-cost analysis for an eight year deferral cannot be done in a meaningful way through benefit-cost modeling. Instead, the Company extrapolated each component of benefits and costs from Table S-2 another 4 years. The results of this calculation are shown in Attachment DIV 2-10.

Prepared by or under the supervision of: Timothy Roughan

Docket 4296
Attachment 2-10
Benefit Cost Analysis Trending

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Overall
Benefits	**$902.2**	**$932.4**	**$979.7**	**$1,017.7**	**$1,042.8**	**$1,164.3**	**$1,201.2**	**$1,248.0**	**$1,307.8**	**$1,385.1**	**$11,181.3**
Focused Energy Efficiency Benefits	$862.9	$891.9	$786.2	$821.5	$835.1	$940.5	$956.8	$973.3	$990.1	$1,007.3	$9,065.5
SRP Energy Efficiency Benefits	$39.3	$40.5	$36.5	$38.2	$49.8	$51.3	$54.9	$58.8	$62.9	$67.3	$499.5
Demand Reduction Benefits	$0.0	$0.0	$26.3	$36.0	$44.1	$66.2	$90.4	$123.3	$168.4	$229.9	$784.5
Deferral Benefits	$0.0	$0.0	$130.8	$122.0	$113.9	$106.3	$99.2	$92.6	$86.4	$80.6	$831.8
Costs	**$562.8**	**$552.8**	**$546.6**	**$530.2**	**$538.8**	**$579.4**	**$586.9**	**$594.6**	**$602.3**	**$610.2**	**$5,704.5**
Focused Energy Efficiency Costs	$337.8	$337.8	$337.8	$337.8	$337.8	$361.5	$367.9	$374.3	$380.9	$387.6	$3,561.1
System Reliability Procurement Costs	$225.0	$215.0	$208.8	$192.4	$201.0	$217.9	$219.1	$220.2	$221.4	$222.6	$2,143.4
Benefit/Cost Ratio	**1.60**	**1.69**	**1.79**	**1.92**	**1.94**	**2.01**	**2.05**	**2.10**	**2.17**	**2.27**	**1.96**

(1) All costs and benefits associated with years 2018-2021 except for the deferral benefits were assumed to increase at a linear rate based one each line item's average % change from year to year over the years 2014 -2017. E.g. the focused EE benefits increased an average of 2% each year from years 2014-2017 so those benefits were increased by 2% for each of years 2018-2021.
(2) Deferral benefits were calculated using consistent methodology for years 2014-2021. Please refer to the 2012 SRP Report Supplement for an explanation of that calculation.
(3) This chart has been created for illustrative purposes only. Please refer to Appendix 12 in the 2012 SRP Report Supplement for detailed cost benefit analysis.

Division 2-11

Request:

With regard to the cost-benefit analysis presented in Table S-2 on page 18 of the SRP Supplement, please provide a similar analysis assuming that the Tiverton feeder upgrade can be avoided altogether.

Response:

In order to answer the question, the Company assumed the feeder upgrade would not be necessary at some point in the future. The Company chose the year 2019 for the analysis in Attachment 2-11 as the year in which the upgrade is cancelled. Since the investment has been cancelled, the analysis in Attachment 2-11 places the net present value of the cancelled revenue requirement as a benefit in 2018 and sets the deferral benefit to $0 in the years 2019-2021 for illustration.

It is important to understand that there will be on-going demand management costs to prevent the peak loads from rising again in the future. In addition, equipment may become unreliable or require ever increasing maintenance costs as it remains in service. Thus, the Company will eventually need to do some level of upgrade(s) at the substation at some point in the future.

As far as the analysis is concerned, please see the response to Division 2-10. The same considerations mentioned there would apply to an analysis of the benefit and costs for a permanent avoidance of the Tiverton feeder upgrade.

Prepared by or under the supervision of: Timothy Roughan

Docket 4296
Attachment 2-11
Benefit Cost Analysis Trending with Wires Project Deferred Indefinitely in 2018

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Overall
Benefits	**$902.2**	**$932.4**	**$979.7**	**$1,017.7**	**$1,042.8**	**$1,164.3**	**$2,489.5**	**$1,155.4**	**$1,221.4**	**$1,304.5**	**$12,210.0**
Focused Energy Efficiency Benefits	$862.9	$891.9	$786.2	$821.5	$835.1	$940.5	$956.8	$973.3	$990.1	$1,007.3	$9,065.5
SRP Energy Efficiency Benefits	$39.3	$40.5	$36.5	$38.2	$49.8	$51.3	$54.9	$58.8	$62.9	$67.3	$499.5
Demand Reduction Benefits	$0.0	$0.0	$26.3	$36.0	$44.1	$66.2	$90.4	$123.3	$168.4	$229.9	$784.5
Deferral Benefits	$0.0	$0.0	$130.8	$122.0	$113.9	$106.3	$1,387.5	$0.0	$0.0	$0.0	$1,860.4
Costs	**$562.8**	**$552.8**	**$546.6**	**$530.2**	**$538.8**	**$579.4**	**$586.9**	**$594.6**	**$602.3**	**$610.2**	**$5,704.5**
Focused Energy Efficiency Costs	$337.8	$337.8	$337.8	$337.8	$337.8	$361.5	$367.9	$374.3	$380.9	$387.6	$3,561.1
System Reliability Procurement Costs	$225.0	$215.0	$208.8	$192.4	$201.0	$217.9	$219.1	$220.2	$221.4	$222.6	$2,143.4
Benefit/Cost Ratio	**1.60**	**1.69**	**1.79**	**1.92**	**1.94**	**2.01**	**4.24**	**1.94**	**2.03**	**2.14**	**2.14**

(1) All costs and benefits associated with years 2018-2021 except for the deferral benefits were assumed to increase at a linear rate based one each line item's average % change from year to year over the years 2014 -2017. E.g. the focused EE benefits increased an average of 2% each year from years 2014-2017 so those benefits were increased by 2% for each of years 2018-2021.
(2) Deferral benefits were calculated using consistent methodology for years 2014-2017. Please refer to the 2012 SRP Report Supplement for an explanation of that calculation. 2018 marks the elimination of the wires project and those benefits represent the cost of the project no longer being applied to customers' bills.
(3) This chart has been created for illustrative purposes only. Please refer to Appendix 12 in the 2012 SRP Report Supplement for detailed cost benefit analysis.