



**PASCOAG**  
UTILITY DISTRICT

2019 Demand Side Management

# **Mid-Year Report**

# **Docket 4894**

Pascoag Utility District  
253 Pascoag Main Street  
Pascoag, RI 02859

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August 15, 2019

Ms. Luly Massaro  
Clerk of the Commission  
Rhode Island Public Utilities Commission  
89 Jefferson Blvd.  
Warwick, RI 02888

Re: Docket 4894

Dear Ms. Massaro,

On behalf of Pascoag Utility District (Pascoag or the District), enclosed are an original and nine copies of Pascoag's Reconciled Demand Side Management Mid-Year Budget for 2019. These submissions include a complete summary of the DSM Budget for 2019 including the activities and expenses, and the approximate energy savings to the District.

This filing is submitted under the terms of the District's Demand Side Management Tariff, currently on file with the commission.

If you have any questions please do not hesitate to contact me.

Very truly yours,

Desarae Dolan  
DSM Coordinator

Cc: William Bernstein, Esquire

# Highlights of the 2019 DSM Program

## ***Residential Conservation Program:***

**Home Energy Audits with Incentives** - A total of 59 home energy audits were performed by Energy New England from January-June. An additional twenty have been scheduled, bringing our potential total to 79. There have been 514 LED lightbulbs and 68 Smart Power Strips that were directly installed into homes that had an energy audit. \$16,673 was paid for this program to date, funded by Regional Greenhouse Gas Initiative (2018-B). In addition, seven commercial and industrial energy audits have been performed by RISE at no cost.

We've also sent out follow up letters to each customer reminding them about DSM programs they would qualify for, based on their energy audit. They also received a postcard to complete a survey so we could better understand some of the barriers our customers are facing when implementing energy efficiency measures. We're hoping the results of the survey will allow us to make meaningful changes to the 2020 DSM program.

**Energy Star Appliance Rebates** – The District processed 30 appliance rebates comprised of 4 refrigerators, 1 freezer, 5 clothes washers, 7 clothes dryers, 5 dishwashers, 4 AC's, and 4 dehumidifiers. The District issued a total of \$1,502.00 in rebates.

**Appliance Buy Back Refrigerators/Freezers**-There was no activity to report on this line item.

**Energy Star Efficient Windows/Doors** – The District processed rebates on 9 doors and 85 windows and issued \$1500.00 in rebates.

**Heating System Incentives**- 6 customers took advantage of the heating system replacement program in 2019 and the District issued \$1500.00 in rebates.

**ENERGY STAR qualified Electric Hot Water Heaters**- The District processed one rebate for an electric heat pump hot water heater in the amount of \$100.00.

**Energy Star Lighting fixtures and fans**- The District processed rebates for 3 customers for ceiling fans, recessed light fixtures, shop light fixtures and issued a total of \$116.00 in rebates.

# Highlights of the 2019 DSM Program

**Home Energy Equipment/Home Electronics-** A total of 2 incentives were issued in 2019 for 2 televisions. The rebate totals for this program was \$81.00.

**New Construction Incentive-** Two rebate applications were submitted for new construction for gas boilers. The rebate total for this program was \$500.00.

**Central Air Incentives-**The District processed 4 air source heat pump systems for a total of \$1450.00 in rebates.

**Change a Light** – The District processed rebates for 28 LED light bulbs. The total amount issued in rebates was \$56.00.

**Committed for 2018 Programs-** The District processed 16 incentives from 2018 that qualified for rebates totaling \$1,486.00. The rebates were for 3 refrigerators, 2 dishwashers, 1 clothes dryer, 2 clothes washers, 1 television, 1 computer monitor, 1 gas furnace, 1 air source heat pump system, 1 ductless AC system, 29 LED lightbulbs and 1 refrigerator buyback.

## ***Industrial/ Commercial***

**Energy Star office equipment-** There is no activity to report.

**Burrillville School Department-**The District has worked with the School Department on several energy efficiency projects over the years. Currently, they are in the middle of an LED lighting project at the Levy Rink. The final figures could not be included at this time because the project just started.

**Committed Funds-** The District has completed two projects this year. The Jesse Smith Library completed a LED lighting project that cost \$37,364.00. The District was able to process a rebate for \$9,391.00 for this project. They will save 68,534 kWhrs and reduce their kW by 26.61. Ashton Court also did a LED lighting project for its exterior lighting. The project cost \$19,929.00 and the District was able to process a rebate for \$7,636. The project will save 18,151 kWhrs and reduce their kW by 4.14.

# Highlights of the 2019 DSM Program

**Consultation fee-** There is no activity to report.

**Energy Star Commercial Appliances-**The District processed two rebates for an electric heat pump water heater and an air source heat pump system. The total amount issued in rebates was \$300.00.

**LED Street Light Incentive-** Initially this program was funded at \$8,000. We reduced this line item to \$7,225 due to overestimating the carryover from 2018. The DSM Program rebated Pascoag Utility District \$7,225 for the LED Street Light Project that was completed in 2016 in which the District purchased and installed 610 LED Street Lights. This money will be used to reduce the Account Receivable from the DSM Program from \$90,321 to \$73,096.

## ***Administrative***

**Administrative-** The District spent \$7,832.95 on administrative labor, supplies and mileage associated with the various DSM projects.

**Energy Consultant-** There is no activity to report as we have not been billed yet. We have been meeting regularly with Optimal Energy to discuss plans for 2020 and to develop a better way to track energy savings across each program.

**URI Energy Fellow Intern-** The District has spent \$6,133.25 on the labor for an Energy Fellow Intern. Ms. Rodriguez has worked on many projects this year. She has created energy efficiency content for our Facebook page that has been well received. She has updated all our energy efficiency handout materials with better graphics and updated information. She's helped with residential energy audit outreach by developing advertisements, letters to customers and a post audit survey. She is also actively involved in preparation for our upcoming Green Festival. She has done an amazing job and has been invaluable to the success of our DSM program this year.

**Program Research and Development-** There is no activity to report.

# Highlights of the 2019 DSM Program

## ***Community Outreach, Marketing & Education***

**Funds for Follow-up to Successful Programs-** The District has processed 6 rebates for 29 windows and 2 doors as the fund for windows/doors has been depleted. The total amount issued in rebates was \$535.00.

**Outreach/Education-**The District has spent \$5,197.90 on conservation promotional items, advertisements and billing inserts to promote the energy efficiency programs we offer.

**Jesse Smith Library Partnership-** the Jesse Smith Memorial Library in conjunction with the Public Works Department and the Pascoag Utility District encourages students in grades K-6 to create Earth Day Posters depicting why it is important to recycle and conserve energy in Burrillville. A total of twelve winning posters were chosen to be included in a 2020 calendar which also contained energy conservation and recycling tips. The students received Energy Conservation lunch bags filled with items from the Town on recycling and items related to energy conservation from the District. The award ceremony was held on May 8, 2019 to recognize the winners of the contest. The calendars will be ordered later this fall. The District has spent a total of \$1,321.07 on this project to date for prizes, materials and labor.

**Community Events-** the District is excited to report that the Town of Burrillville's Parks & Recreation Department and the Pascoag Utility District will host the 13th Annual Green Festival which is held at the Stillwater Mill Complex, 100 Tinkham Lane, Harrisville, on Saturday, September 7, 2019. The event has always been well attended and the District receives many positive comments about the festival. The District's booth will promote energy conservation and efficiency. It is a great way to educate the public about the available rebates through the DSM Program. Many green vendors attend the event along with local agencies and the Burrillville Farmers Market. There will be children's activities, food, and energy saving tips and conservation materials.

The District also attended the Burrillville Family Fair in June. The District gave away a variety of energy conservation materials at this event.

The District also had the opportunity to host a field trip for Steere Farm Elementary School's fourth grade. The children got a tour of the facility, learned about the role of the electric company in their community and worked on energy conservation posters while they were here.

# Highlights of the 2019 DSM Program

Pascoag Utility has also become a committee member of Burrillville Aging Strong. Burrillville Aging Strong is a town-wide and town-supported effort to develop and coordinate programs which improve the health and well-being of Burrillville's aging community. The District was asked to participate as a vendor at their first Lunch & Learn event in May. After speaking with attendees at the event, we realized this age group tends to not benefit as much from some of our past outreach efforts. Many did not have Facebook pages or attend the Family Fair or Green Festival. We were able to speak to many customers over the age of 55 and make them aware of the home energy audit program and rebates that we offer. We asked to join the committee and will now be helping with quarterly events in an effort to promote our DSM programs more effectively.

The District has spent \$898.24 on labor and materials for Community Events.

**Energy Efficiency Management Continuing Education-** Staff attended the Massachusetts Sustainable Communities Conference in March to get ideas from other communities and vendors that attended.

Overall, Pascoag's 2019 DSM Program has been off to a good start. We've encouraged our customers to take advantage of the energy rebates we offer by advertising our rebate programs on SmartHub (PUD's online bill pay site), by billing insert and attaching energy conservation material to give away items, such as pens or keychain flashlights, when they come into the office. We've also increased our outreach through social media. We hope this will increase the amount of people taking advantage of our programs. The total budget for 2019 was \$181,971; with \$108,640 estimated to be collected from customer billing plus the actual carry over funds from 2018 of \$8,331. The total expenses to date for 2019 were \$72,206.

# Exhibit I: 2019 Approved Budget

**Pascoag Utility District  
Demand Side Management Programs - 2019 Approved Budget**

Estimated carry over from 2018	\$ 9,106
Estimated sales for 2019	\$ 108,640
RGI Funds	\$ 65,000
Net 2019 budget	\$ 182,746

**2019 Approved  
Budget**

<b>Residential Program</b>		
DR1901	Home Energy Audits with Weatherization Incentives	\$ 65,000 120 audits and weatherization incentives
DR1902	Energy Star Appliance Rebates	\$ 5,838 Up to 77 incentives
DR1903	Refrigerators/Freezer Buy Back	\$ 560 \$50 incentive & \$20 removal fee for a Refrigerator or Freezer; up to 8 rebates
DR1904	Energy Efficient Windows/Doors	\$ 1,500 Up to 100 windows at \$15 or up to 37 doors at \$40
DR1905	Heating System Incentive	\$ 1,500 6 Rebates at \$250
DR1906	ENERGY STAR qualified Water Heaters	\$ 600 4 Rebates at \$150
DR1907	Energy Star Lighting fixtures& ceiling/ventilation fans	\$ 650 Up to 13 rebates at \$50 maximum
DR1908	Home Office Equipment/Home Electronics	\$ 500 10 Rebates at \$50
DR1909	New Construction	\$ 1,000 2 Rebates up to \$500 maximum
DR1910	Central Air Conditioning	\$ 2,700 9 Rebates up to \$300 maximum
DR1911	Change a Light Campaign	\$ 400 8 Rebates up to \$50 maximum
DR1912	Committed for 2018 Programs	\$ 1,500 To accommodate programs with depleted funds from 2018
<b>Net Residential</b>		<b>\$ 81,748</b>
<b>Industrial/Commercial</b>		
DI1901	Energy Star Incentive - Office Equipment	\$ 500 10 Rebates up to \$50 maximum
DI1902	Burrillville School Department	\$ 9,300 Lighting Project-Burrillville Skating Rink
DI1903	Committed Funds- Lighting & EE Projects	\$ 20,400 Burrillville Library Lighting Project & Ashton Court Lighting Project
DI1904	Consultation Fees	\$ 250 To consult with RISE, National Grid, & ENE
DI1905	Energy Star Commercial Appliance	\$ 700 2 Appliances up to a maximum of \$350
DI1906	LED Street Light Incentive	\$ 8,000 Public Street Lighting Project
<b>Net Industrial/Commercial</b>		<b>\$ 39,150</b>
<b>Administrative</b>		
DA1901	Administrative	\$ 21,000 Administrative labor, mileage and supplies.
DA1902	Energy Consultant	\$ 10,000 Energy Consultant to provide guidance and recommendations on DSM program.
DA1903	URI Energy Fellow Intern	\$ 9,000 Intern to assist with anticipated increased workload.
DA1904	Program Research and Development	\$ 500 Funds for future development of programs
<b>Net Administrative</b>		<b>\$ 40,500</b>
<b>Community Outreach, Marketing &amp; Education</b>		
DC1901	Funds for Follow-up to Successful Programs	\$ 1,000 To be used on more successful programs.
DC1902	Outreach/Education	\$ 6,500 Billing inserts, conservation promotional items, and the DEED membership.
DC1903	Jesse Smith Library Partnership	\$ 3,523 To partner with the Jesse Smith Library on an Energy Efficiency Project.
DC1904	Community Events	\$ 8,000 To promote Energy Efficiency @ Community Events (Green Festival, Family Fair, ...)
DC1905	Energy Efficiency Management continuing education	\$ 2,325 Tuition, hotel, meals, mileage, NEEP 2 day conference, and webinars
<b>Net Community Outreach, Marketing &amp; Education</b>		<b>\$ 21,348</b>
<b>Approved DSM 2019 Budget</b>		<b>\$ 182,746</b>



# Exhibit II: 2019 Expenses and Balances

**Pascoag Utility District**  
**Demand Side Management Programs - 2019 Approved Budget**

	<u>Estimated</u>	<u>Actual</u>	<u>Difference</u>
Estimated carry over from 2018	\$ 9,106	\$ 8,331	\$ (775)
Estimated sales for 2019	\$ 108,640	\$ 108,640	\$ -
RGGI Funds	\$ 65,000	\$ 65,000	\$ -
Net 2019 budget	\$ 182,746	\$ 181,971.36	\$ (775)

	<b>2019 Approved</b>		
	<u>Budget</u>	<u>Expenses</u>	<u>Balance</u>
<b><u>Residential Program</u></b>			
DR1901 Home Energy Audits with Weatherization Incentives	\$ 65,000	\$ 16,673	\$ 48,327
DR1902 Energy Star Appliance Rebates	\$ 5,838	\$ 1,502	\$ 4,336
DR1903 Refrigerators/Freezer Buy Back	\$ 560	\$ -	\$ 560
DR1904 Energy Efficient Windows/Doors	\$ 1,500	\$ 1,500	\$ -
DR1905 Heating System Incentive	\$ 1,500	\$ 1,500	\$ -
DR1906 ENERGY STAR qualified Water Heaters	\$ 600	\$ 100	\$ 500
DR1907 Energy Star Lighting fixtures& ceiling/ventilation fans	\$ 650	\$ 116	\$ 534
DR1908 Home Office Equipment/Home Electronics	\$ 500	\$ 81	\$ 419
DR1909 New Construction	\$ 1,000	\$ 500	\$ 500
DR1910 Central Air Conditioning	\$ 2,700	\$ 1,450	\$ 1,250
DR1911 Change a Light Campaign	\$ 400	\$ 56	\$ 344
DR1912 Committed for 2018 Programs	\$ 1,500	\$ 1,486	\$ 14
<b>Net Residential</b>	<b>\$ 81,748</b>	<b>\$ 24,964</b>	<b>\$ 56,784</b>
<b><u>Industrial/Commercial</u></b>			
DI1901 Energy Star Incentive - Office Equipment	\$ 500	\$ -	\$ 500
DI1902 Burrillville School Department	\$ 9,300	\$ -	\$ 9,300
DI1903 Committed Funds- Lighting & EE Projects	\$ 20,400	\$ 17,027	\$ 3,373
DI1904 Consultation Fees	\$ 250	\$ -	\$ 250
DI1905 Energy Star Commercial Appliance	\$ 700	\$ 300	\$ 400
DI1906 LED Street Light Incentive	\$ 7,225	\$ 7,225	\$ -
<b>Net Industrial/Commercial</b>	<b>\$ 38,375</b>	<b>\$ 24,552</b>	<b>\$ 13,823</b>
<b><u>Administrative</u></b>			
DA1901 Administrative	\$ 21,000	\$ 7,832	\$ 13,168
DA1902 Energy Consultant	\$ 10,000	\$ -	\$ 10,000
DA1903 URI Energy Fellow Intern	\$ 9,000	\$ 6,133	\$ 2,867
DA1904 Program Research and Development	\$ 500	\$ -	\$ 500
<b>Net Administrative</b>	<b>\$ 40,500</b>	<b>\$ 13,965</b>	<b>\$ 26,535</b>
<b><u>Community Outreach, Marketing &amp; Education</u></b>			
DC1901 Funds for Follow-up to Successful Programs	\$ 1,000	\$ 535	\$ 465
DC1902 Outreach/Education	\$ 6,500	\$ 5,198	\$ 1,302
DC1903 Jesse Smith Library Partnership	\$ 3,523	\$ 1,321	\$ 2,202
DC1904 Community Events	\$ 8,000	\$ 898	\$ 7,102
DC1905 Energy Efficiency Management continuing education	\$ 2,325	\$ 772	\$ 1,553
<b>Net Community Outreach, Marketing &amp; Education</b>	<b>\$ 21,348</b>	<b>\$ 8,724</b>	<b>\$ 12,624</b>
<b>Approved DSM 2019 Budget/ Expenses/ Balance</b>	<b>\$ 181,971</b>	<b>\$ 72,205.56</b>	<b>\$ 109,765</b>

# Exhibit III: Savings Associated with DSM Projects

Residential Programs Totals	
Program Expenses	\$24,964
Annual kWh Electric Savings	28,485
Lifetime kWh Electric Savings	188,743
Summer Peak kW Savings	4.86
Participants	126
Lifetime kWh Electric Savings per Participant	1,498
Cost/Lifetime kWh Electric Savings	\$0.13
Lifetime Carbon Reductions (Short Tons)	181

DR1901: Home Energy Audits with Weatherization Incentives	
Program Expenses	\$16,673
Annual kWh Electric Savings	18,482
Lifetime kWh Electric Savings	60,881
Summer Peak kW Savings	2.91
Participants	49
Lifetime kWh Electric Savings per Participant	1242
Cost/Lifetime kWh Electric Savings	\$0.27

DR1902: Energy Star Appliance Rebates	
Program Expenses	\$1,502
Annual kWh Electric Savings	3,178
Lifetime kWh Electric Savings	37,571
Summer Peak kW Savings	0.73
Participants	30
Lifetime kWh Electric Savings per Participant	1,252
Cost/Lifetime kWh Electric Savings	\$0.04

DR1903: Refrigerators/Freezer Buy Back	
Program Expenses	\$0

DR1904: Energy Efficient Windows/Doors	
Program Expenses	\$1,500
Participants	8

DR1905: Heating System Incentive	
Program Expenses	\$1,500
Annual MMBtu Gas Savings	61
Lifetime MMBtu Gas Savings	1,031
Participants	6
Lifetime MMBtu Gas Savings per Participant	172
Cost/Lifetime MMBtu Gas Savings	\$1.45

DR1906: ENERGY STAR Qualified Water Heaters	
Program Expenses	\$100
Annual kWh Electric Savings	1,667
Lifetime kWh Electric Savings	21,677
Summer Peak kW Savings	0.13
Participants	1
Lifetime kWh Electric Savings per Participant	21,677
Cost/Lifetime kWh Electric Savings	\$0.005

DR1907: ENERGY STAR Lighting Fixtures & Ceiling/Ventilation Fans	
Program Expenses	\$116
Annual kWh Electric Savings	192
Lifetime kWh Electric Savings	1,646
Summer Peak kW Savings	0.01
Participants	3
Lifetime kWh Electric Savings per Participant	549
Cost/Lifetime kWh Electric Savings	\$0.07

DR1908: Home Office Equipment/Home Electronics	
Program Expenses	\$81
Annual kWh Electric Savings	70
Lifetime kWh Electric Savings	420
Summer Peak kW Savings	0
Participants	2
Lifetime kWh Electric Savings per Participant	210
Cost/Lifetime kWh Electric Savings	\$0.19

DR1909: New Construction	
Program Expenses	\$500
Annual MMBtu Gas Savings	20
Lifetime MMBtu Gas Savings	344
Participants	2
Lifetime MMBtu Gas Savings per Participant	172
Cost/Lifetime MMBtu Gas Savings	\$1.45

DR1910: Central Air Conditioning	
Program Expenses	\$1,450
Annual kWh Electric Savings	1,787
Lifetime kWh Electric Savings	32,161
Summer Peak kW Savings	0.46
Participants	4
Lifetime kWh Electric Savings per Participant	8,040
Cost/Lifetime kWh Electric Savings	\$0.05

# Exhibit III: Savings Associated with DSM Projects

<b>DR1911: Change a Light Campaign</b>	
Program Expenses	\$56
Annual kWh Electric Savings	388
Lifetime kWh Electric Savings	1,938
Summer Peak kW Savings	0.05
Participants	3
Lifetime kWh Electric Savings per Participant	646
Cost/Lifetime kWh Electric Savings	\$0.03

<b>DR1912: Committed for 2018 Programs</b>	
<b>Total Program Expenses</b>	<b>\$1,486</b>
<b>Electric Expenses</b>	<b>\$1,236</b>
Annual kWh Electric Savings	2,721
Lifetime kWh Electric Savings	32,449
Summer Peak kW Savings	0.57
Participants	17
Lifetime kWh Electric Savings per Participant	1,909
Cost/Lifetime kWh Electric Savings	\$0.05
<b>Gas Expenses</b>	<b>\$250</b>
Annual MMBtu Gas Savings	6
Lifetime MMBtu Gas Savings	105
Participants	1
Lifetime MMBtu Gas Savings per Participant	105
Cost/Lifetime MMBtu Gas Savings	\$2.39

<b>Commercial &amp; Industrial Programs</b>	
Program Expenses	\$24,552
Annual kWh Electric Savings	77,493
Lifetime kWh Electric Savings	1,009,343
Summer Peak kW Savings	10.15
Participants	4
Lifetime kWh Electric Savings per Participant	252,336
Cost/Lifetime kWh Electric Savings	\$0.02
Lifetime Carbon Reductions (Short Tons)	463

<b>DI1903: Committed Funds - Lighting &amp; EE Projects</b>	
Program Expenses	\$17,027
Annual kWh Electric Savings	75,438
Lifetime kWh Electric Savings	980,696
Summer Peak kW Savings	9.86
Participants	2
Lifetime kWh Electric Savings per Participant	490,348
Cost/Lifetime kWh Electric Savings	\$0.02

<b>DI1905: ENERGY STAR Commercial Appliance</b>	
Program Expenses	\$300
Annual kWh Electric Savings	2,055
Lifetime kWh Electric Savings	28,647
Summer Peak kW Savings	0.29
Participants	2
Lifetime kWh Electric Savings per Participant	14,324
Cost/Lifetime kWh Electric Savings	\$0.01