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Electric ISR
Long Range Plan Tech Session

October 18, 2022

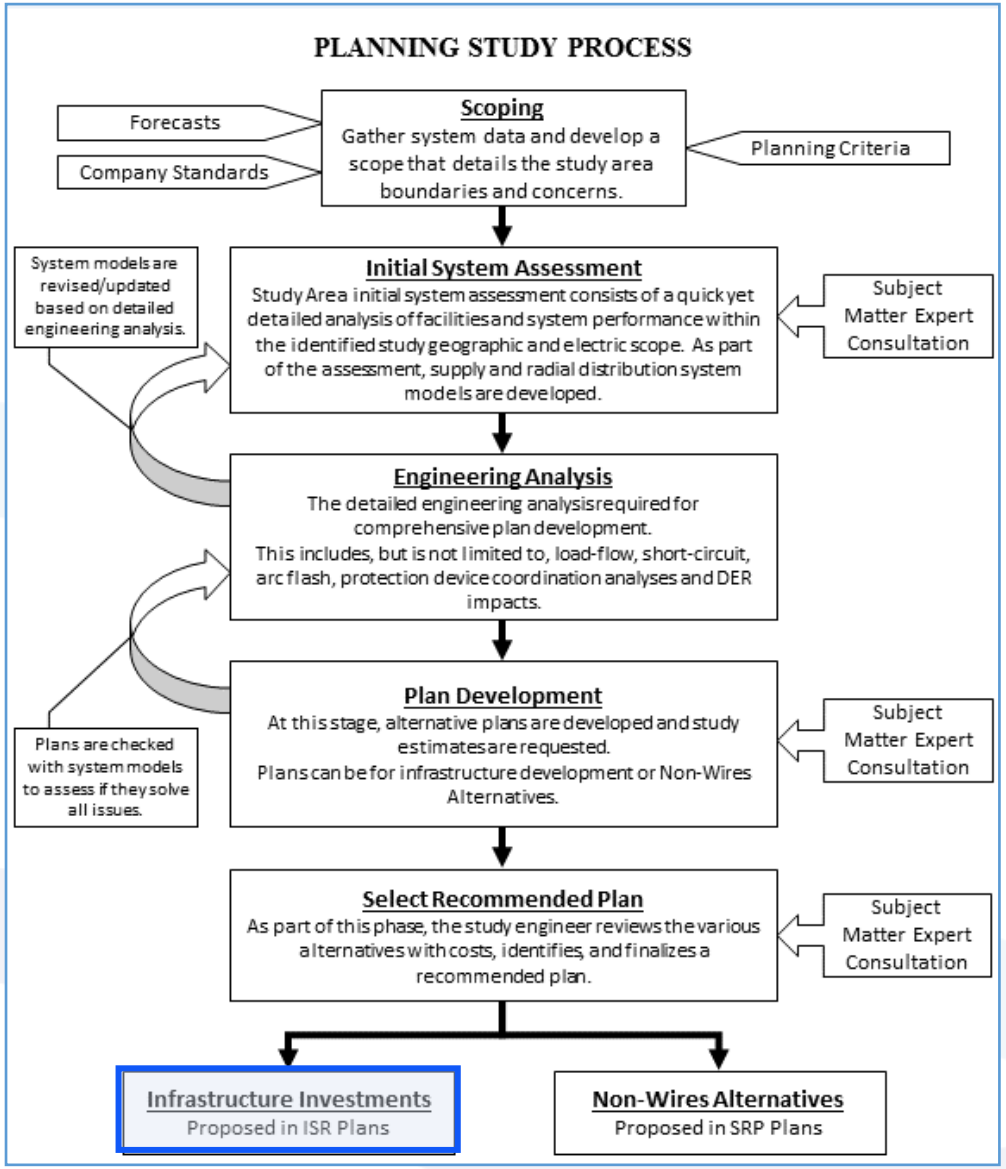
Objective

- Objective:
  - Discuss long range planning and the resulting capital investment plan
  - Describe how area planning is influenced by Grid Modernization (GMP)

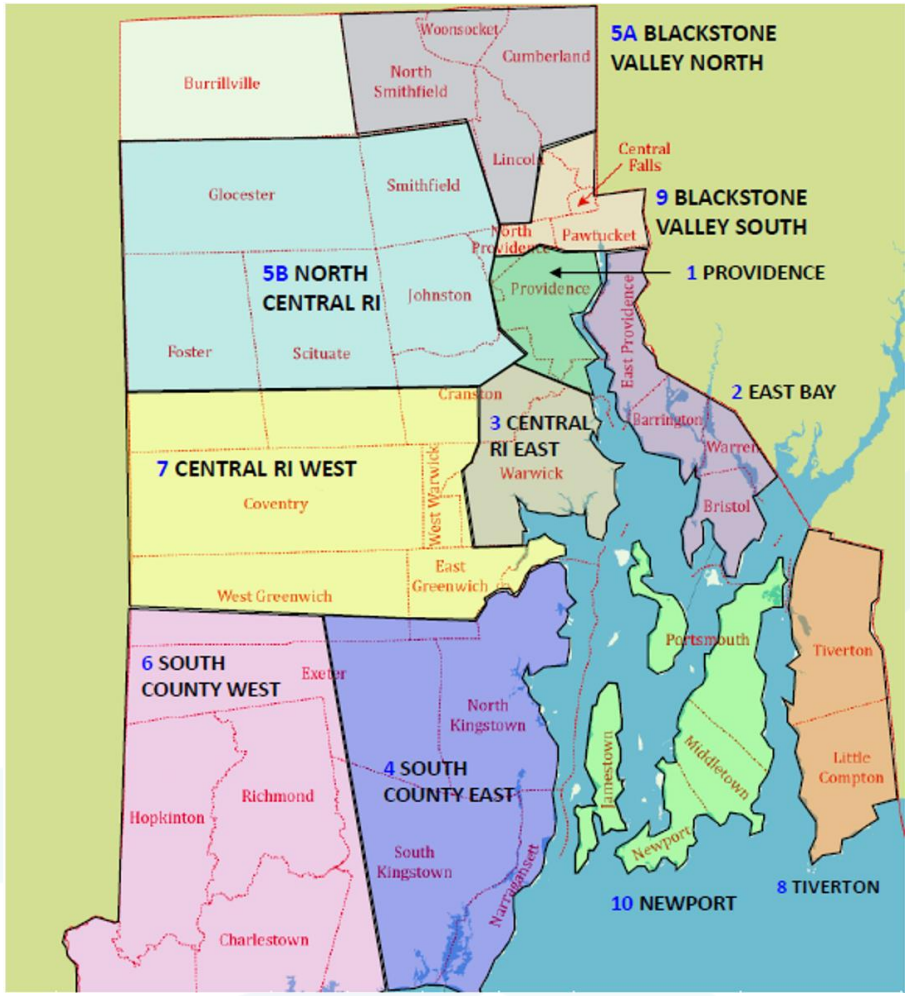
- Approach:
  - Review Area Planning process
  - Present Major projects
  - Review GMP study approach, purpose and preliminary results
  - Discuss how GMP impacts Long Range Planning and investments
  - Provide examples where GMP impacted investment decisions
  - Present foundational GMP investments

Refresh – Area Planning Study Process

- **Stage 1:** Definition of electrical and geographical scope of study and gathering necessary data including planning criteria needed to execute the study.
- **Stage 2:** Initial system assessment consisting of a quick analysis of facilities and system performance within the identified study geographic and electric scope.
- **Stage 3:** Study kick off meeting held to inform the larger stakeholder group that an area planning study is underway and to solicit inputs from those with knowledge of the system infrastructure in the area under review.
- **Stage 4:** Detailed system assessment and engineering analysis.
- **Stage 5:** Development and project estimating of alternative infrastructure and non-wires alternative plans.
- **Stage 6:** Review of various alternatives' relative costs and benefits and identify and finalize a recommended plan.
- **Stage 7:** Technical review presentation with approval committee.
- **Stage 8:** Delivery of area planning study report documentation upon completion of the study.
- **Stage 9:** Sanction of any recommended projects having forecasted spending within the next three fiscal years.



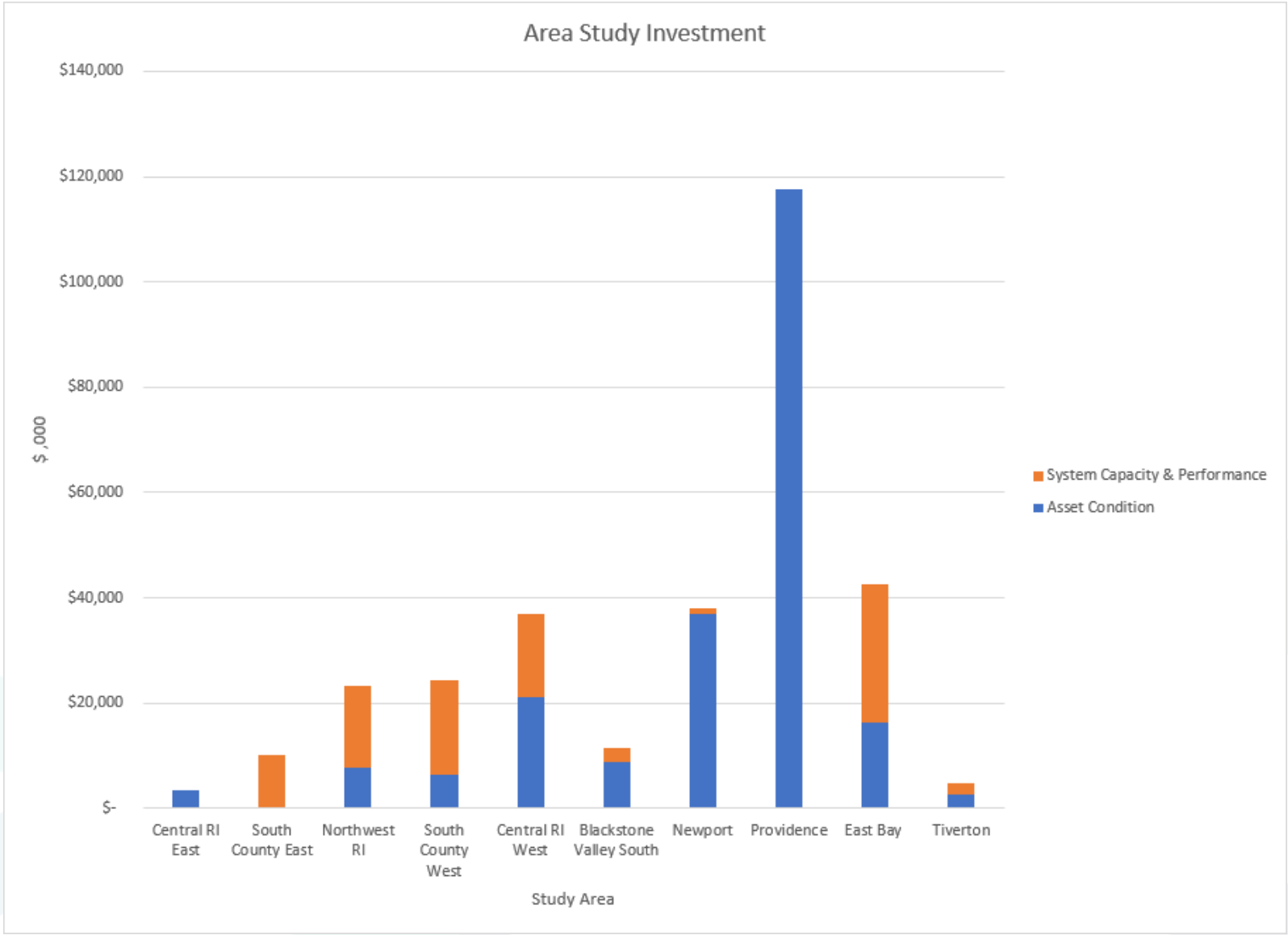
Area Planning Study Status



Study Area	Load (MVA)	% State Load	# Feeders	# Stations	Annual Capacity Review % Complete	Area Planning Study % Complete	Study Completion Date
Providence	358	19%	93	16	100%	100%	May 2017
East Bay	147	8%	22	7	100%	100%	August 2015
Central RI East	204	11%	37	9	100%	100%	September 2017
South County East	159	9%	22	10	100%	100%	March 2018
Blackstone Valley North	139	8%	27	6	100%	100%	March 2021
North Central RI	269	15%	35	10	100%	100%	March 2021
South County West	98	5%	14	5	100%	100%	October 2021
Central RI West	167	9%	29	10	100%	100%	May 2021
Tiverton	36	2%	4	1	100%	100%	May 2021
Blackstone Valley South	171	9%	54	8	100%	100%	October 2021
Newport	105	6%	42	11	100%	100%	December 2021
Totals	1,853	100%	379	93	100%	100%	

Annual Capacity Reviews are 100% complete for <u>ALL</u> Planning Areas

Area Study Capital Investment by Area



Business Use

Major Project by Area – Asset Condition Active

Study Area	Major Project	Description
Providence	Dyer Street	In the re-scoped Dyer Street Substation project, an external substation within the existing South Street Substation outdoor yard was built. The work involves the installation of two new 11 kV to 4.16 kV transformers and the corresponding risers and switches, the installation of a metal clad switch gear, and the needed distribution feeder getaways. The Company forecasts that the capital work on this project will be completed and assets will be in service by March 2023. The removal of the AC building will be completed during March 2023.
Blackstone Valley North	Southeast/Dunnell Park	This project addressed asset condition and safety concerns at the Pawtucket No. 1 and the Dunnell Park substations as well as improvements to overall capacity. The Company forecasts that the capital work on this project will be completed and assets will be in service by March 2023.
Providence	Providence Phase 1 - 4	The Providence Area Planning Study identified asset condition issues at five indoor substations and on over 25 miles of underground cable within the study area. The study recommended the expansion of the 12.47 kV distribution system to enable conversion of the majority of 11.5 kV and 4.16 kV load. This allows the elimination of several 4.16 kV and 11.5 kV indoor and outdoor stations and several miles of sub-transmission cable. A large part of the 12.47 kV capacity in the area would be provided by a new 115/12.47 kV station at Admiral Street. This substation will supply the converted load from the Geneva, Harris Avenue, Olneyville, and Rochambeau Avenue substations.

Major Project by Area – Asset Condition 21-month Pipeline

Study Area	Major Project	Description
East Bay	Phillipsdale Substation	The East Bay Area Study recommended replacing the Phillipsdale Substation and retiring of the Waterman Substation due to reliability issues and the age and condition of assets. Current planning recommends completing the project in two phases. The ultimate build-out will be a 115 / 12.47 KV substation and include two 40 MVA LTC transformers supplying straight-bus metal clad switchgear with a tie breaker, eight feeder positions, and two 7.2 MVAR two stage capacitor banks. In addition, [convert] the 23 kV sub-transmission system to 12.47 kV.
Northwest RI	Centredale Substation	The Northwest Rhode Island Area Study recommended rebuilding this substation and converting the 4 kV distribution loads to allow for retirement of the 4.16 kV equipment.
Central RI East	Apponaug Substation	The Central Rhode Island East Area Study recommended rebuilding this substation with two new 23/12.47 kV modular feeders utilizing standard open air modular feeder construction. Due to a history of operational challenges and asset condition issues, a short-term plan addressed the retirement of the 23 kV station, removal of equipment, and installation of relayed reclosers for transformer protection in previous years.
Tiverton	Tiverton Substation	The Tiverton Area Study recommended the addition of a 12.47 kV breaker, three regulators, and a new getaway manhole and duct system inside the substation in addition to replacement of equipment with asset condition issues.

Major Project by Area – System Capacity Active

Study Area	Major Project	Description
Newport	Aquidneck Island	These projects included construction of a new 69 / 13.85 kV substation and related line work to provide load relief to the City of Newport; rebuilding the Jepson substation in Middletown; and the demolish and reconstruction of the Dexter Substation. This work is essentially complete and was placed into service during FY 2020 through FY 2022. The remaining work includes upgrades of various distribution circuits to improve reliability, the continued work on retiring substations, and minor improvements to certain substations.
South County East	New Lafayette Substation	A comprehensive study of the South County East area was performed to identify existing and potential future distribution system performance concerns. The study identified several reliability and asset condition issues. The study recommends building a new open air, low profile, breaker-and-one-half 115/12.47 kV substation at the existing Lafayette substation site. The existing 34.5/12.47 kV station at Lafayette will be retired once the new station is placed into service.
East Bay	Warren Substation	The Warren #5 substation expansion project has been recommended as part of the East Bay Long Term Study. The project expands the existing substation by adding two new 12.47 kV feeders, a new substation capacitor, and new distribution construction to provide additional capacity to Warren and Barrington. In order to provide additional capacity to the Warren and Barrington area, distribution construction requires the crossing of the Barrington and Palmer Rivers in conjunction with on-going projects with RIDOT along the East Bay Bike Path. Completion of the project facilitates the retirement of the Barrington substation, which has safety and asset condition concerns, the capacity constrained Mink 115/23 kV substation, and a significant portion of the 23 kV sub-transmission in the area
East Bay	East Providence Substation	The East Bay Long Term Study identified asset condition and loading concerns in the East Providence area. The study proposed a new station in the East Providence area that will reduce the loading and dependence on the 23 kV sub-transmission system. This project involves the construction of a new 115/12.47 kV substation adjacent to the 115 kV transmission right-of-way. The project requires a tap structure and easement within the public right of way to the 115kV transmission right-of-way. Construction will consist of a 40 MVA LTC transformer supplying straight-bus metal-clad switchgear with a tie breaker, six feeder positions, and two two-stage capacitor banks.

Major Project by Area – System Capacity 21-month Pipeline

Study Area	Major Project	Description
Northwest RI	Nasonville	The Northwest Rhode Island Area Study recommended bringing a new 115 kV overhead supply line from Woonsocket substation to Nasonville substation and adding a second transformer and straight bus to the existing Nasonville substation. Due to the recent issues at this substation, the work plan will be reassessed.
Central RI East	Weaver Hill	The Central Rhode Island East Area Study recommended installing a new substation on Weaver Hill Road due to overload concerns. This work will include extending the 3309 and 3310 lines for 1.7 miles, installing a transformer and one feeder position, and installing distribution line work for a new feeder.

Alternative Analysis (NWA) - Example

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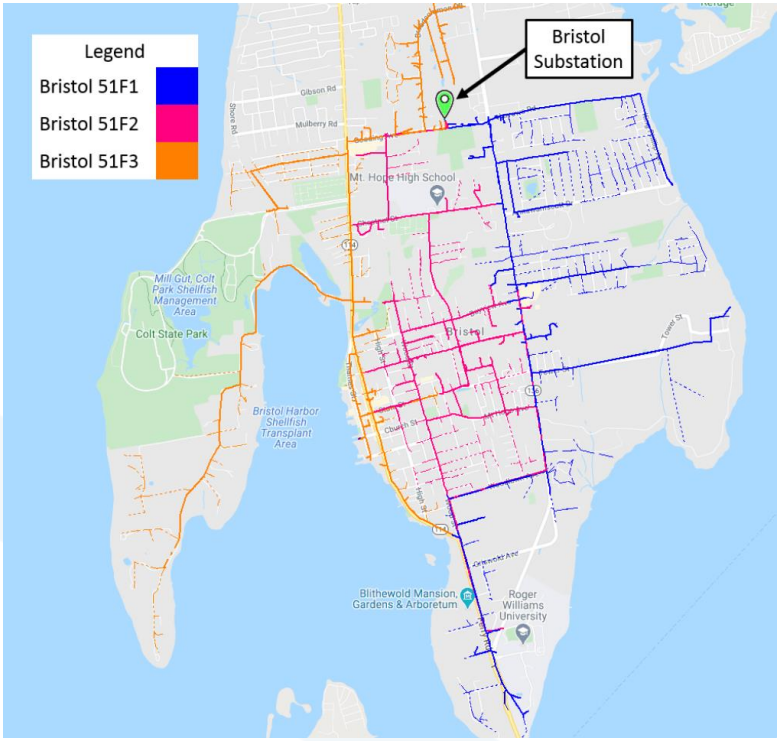
- Intends to address contingency load-at-risk issues on Bristol 51F1, 51F2, and 51F3.
- Load reduction need: 2.97 MW, 23.76 MWh
- Wires solutions: new feeder and existing feeder mainline upgrades
- NWA Approximate Value: $1,590,000
- RFP period – June 2020- August 2020
  - Proposal included aggregated demand response (DR) using dispatchable diesel genset and energy storage system (ESS).
  - The bid was technically viable but did not meet the full need and was not cost-effective.
  - Bid considered carbon-heavy.



- NWA not pursued

RFP Tracking Metric	Bristol 51
Number of vendors invited to the NWA RFP	86
Number of Vendors originally intended to participate	23
Number of vendor bids received	1

LRP Alignment – Area Studies / Programs Example

- Avoids duplication and early obsolescence
  - Example – Approximately 10 miles of underground cable eliminated from cable replacement program as a result of area study recommendations

Feeder	Updated Replacement KFt % Rank	Updated Replacement kFT	Probability	Criticality	Risk	Notes
49_53_1103	0.977	25.6	5	5	25	
49_53_1171	0.899	13.8	5	5	25	
49_53_1101	0.949	16.2	5	4	20	
49_53_1144	0.834	5.7	5	4	20	
49_53_1169	0.77	6.5	4	4	16	
49_53_77J2	0.743	11	4	4	16	
49_53_77J4	0.788	12.2	4	4	16	
49_53_1113	0.926	13.6	5	3	15	
49_53_1114	0.871	8.4	5	3	15	Eliminated in Prov Study
49_53_1121	0.972	20.9	5	3	15	
49_53_1132	0.99	19.8	5	3	15	Eliminated in Prov Study
49_53_1135	0.889	13.3	5	3	15	
49_53_1137	0.88	8.7	5	3	15	Eliminated in Prov Study
49_53_1139	0.986	20.6	5	3	15	
49_53_1142	0.844	5.7	5	3	15	
49_53_1152	0.802	15.1	5	3	15	
49_53_1153	0.816	14.8	5	3	15	
49_53_12J5	0.862	7	5	3	15	Eliminated in Prov Study
49_53_2201	0.935	12.5	5	3	15	Eliminated in Prov Study
49_53_2J10	0.922	14.8	5	3	15	
49_53_2J7	0.802	5.8	5	3	15	

Long Range Planning Process Considers GMP

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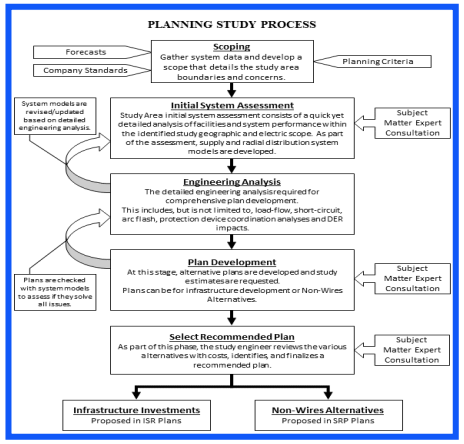

Area Capacity Plans

ISR Investment Plan with 5-year projections

2030/40/50 forecast to meet climate objectives

- DG Forecast
- EV Charging
- Energy Efficiency
- EHP Forecast

GMP Model

T&D Analysis 2030/40/50 8760 hours per year

Alternative: Infrastructure with GMP

- Reduced T&D $
- GMP $
- Volt / VAR optimization
- DER Monitor /Manage

Other Benefits

- Situational Awareness
- Reliability
- Safety
- O&M efficiency
- Market savings
- Asset utilization

Alternative Infrastructure Non-GMP

- T&D $
- DER Curtailment

GMP BCA: Docket 4600

Traditional planning

Planning with GMP

Business Use

Grid Modernization Study Scope

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Stakeholder Outreach and Consultation

Scope

State-wide 8760 analysis

- 400 feeders
- Includes area study recommendations
- Sub-transmission modeling and testing
- System-wide transmission analysis

Years: 2030, 2040, 2050 – Aligned with Act on Climate

Analysis

Forecast: Base, Low, High DER

Issue Identification:

- Determine load, voltage and protection issues
- Determine areas with degrading reliability
- Consider resiliency needs

Solutions:

- Non-Grid Modernization Solutions – Build for Extremes
  - Expand Distribution, Sub transmission and Transmission
- Grid Modernization Solutions – Manage away Extremes
  - Reduced Expansion of Distribution, Sub transmission and Transmission
  - System wide Automation & deployment of Sensing, Monitoring, Data Handling and Processing
  - DER Monitor Manage Energy Shift (TOU)
  - Battery Energy Storage Systems

Estimation

Estimation:

- Equipment Costs
- Installation Costs

Road Map:

- Device Deployment Plan
- Functionality Availability

Leverage PPL experience

- Actual Costs
- Installation Assumptions
- Standards

Benefit Cost Analysis

BCA:

- Comply with Docket 4600
- Update with PPL experience, Study and Reliability findings

Transition Component:

- ADMS ‘Basic’ came with the acquisition

Business Plan

Grid Modernization DER Forecast – Impact to Peak

GMP DER Forecast						
	2030		2040		2050	
	Summer	Winter	Summer	Winter	Summer	Winter
Heat Pumps (MW)	0	200	5	1310	5	2825
Heat Pumps (Ea.)	54,000	54,000	325,000	325,000	400,000	400,000
Solar PV Nameplate (MW)	1,500	1,500	3,400	3,400	5,000	5,000
Electric Vehicles (MW)	70	80	805	910	1010	238
Electric Vehicles (Ea.)	87,300	87,300	675,000	675,000	840,000	840,000
RIE Peak Demand (MW)	**1,940**	**1,415**	**2,519**	**3,280**	**2,785**	**3,855**

More Distributed Generation than Load

Winter Peak

Peak Demand Doubles

Grid Modernization Model Inputs

- Base Model – as used with typical planning studies
  - **Area study recommendations**
  - Existing distributed generation confirmed
- Forecasted load, generation, electric vehicles, heating (heat pumps) added
  - Load forecast with energy efficiency incorporated into load profiles
  - Generation added to the model explicitly
    - General distribution PVs added as 100kW sites
    - Specific PV and Wind sites added to sub-transmission
    - Generation load cycles are based on PVWatts and actual data
  - Electric vehicles and heat pumps added as customer load types to existing load sites
    - Electric vehicle load cycle based on EVI-Pro-Lite
    - Heating pump load based on industry research and 2015 weather year

Grid Modernization Tiverton Preliminary Area Results 2040

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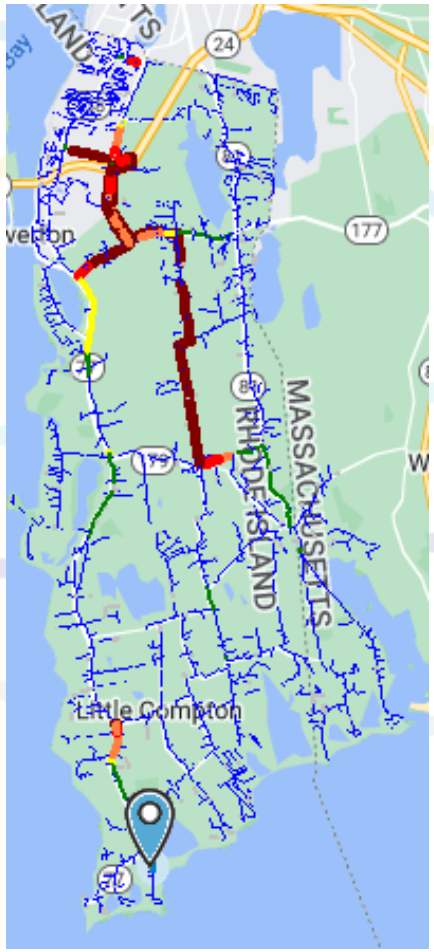
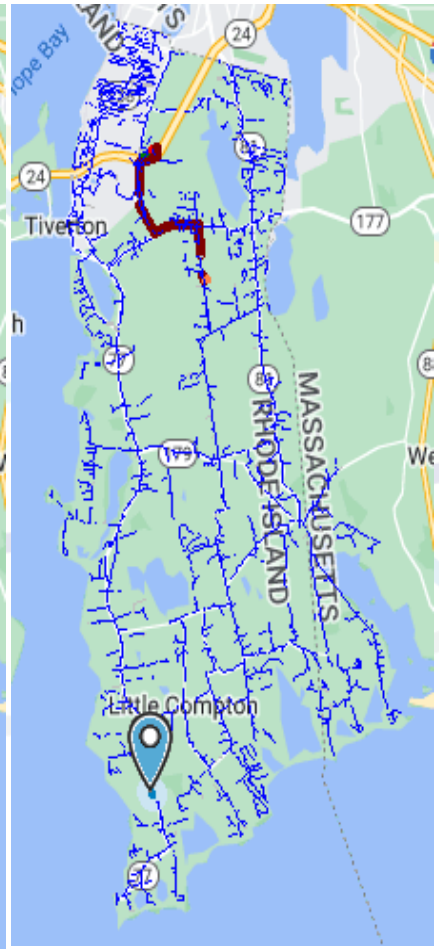
Loading

2/13/2040 6PM

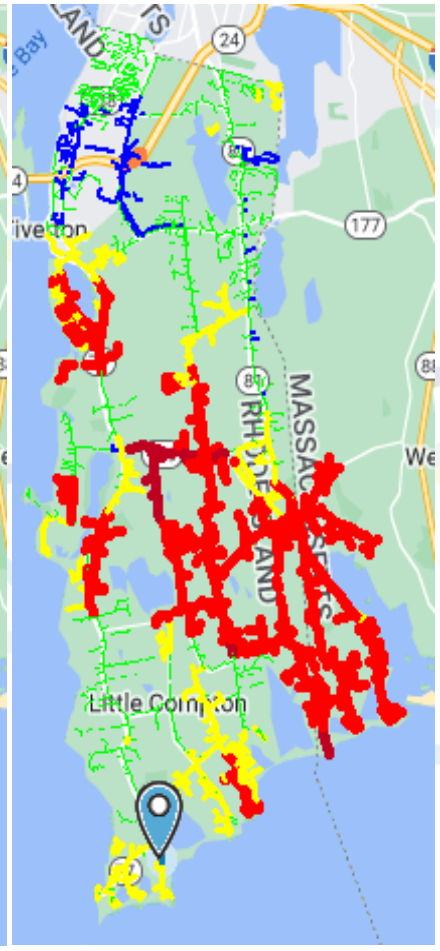


4/16/2040 11AM

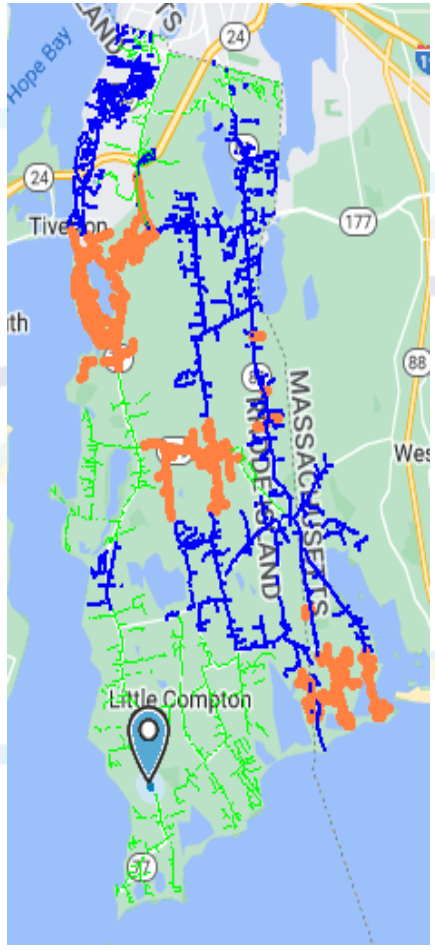


Voltage

2/13/2040 6PM



4/16/2040 11AM



Cool colors are shaded and have no issues

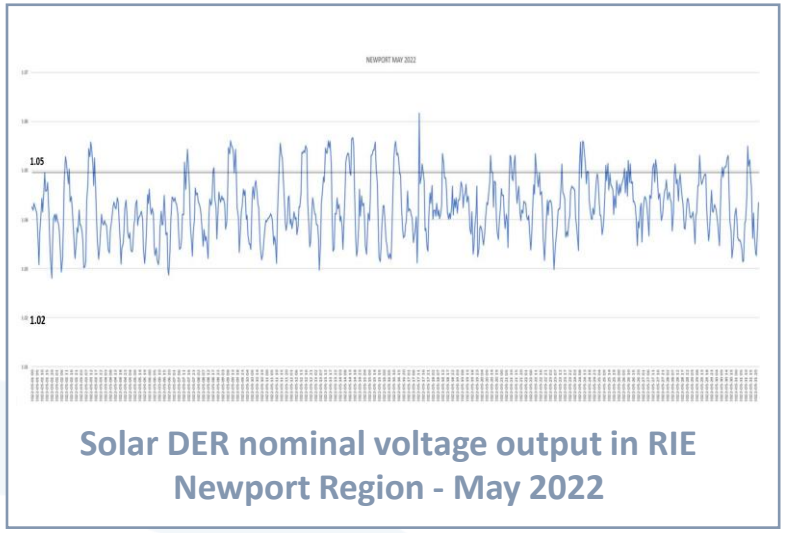
Warm colors are issues

Business Use

RIE Operational Characteristics Now

- Operational Characteristics:
  - Growing DER adoption and interconnection queue
  - Increased variability of load, voltage, and power flow which increases system complexity
  - Greater operational uncertainty
  - Greater dependency on local generation to balance with load
  - Lacking real time situational awareness

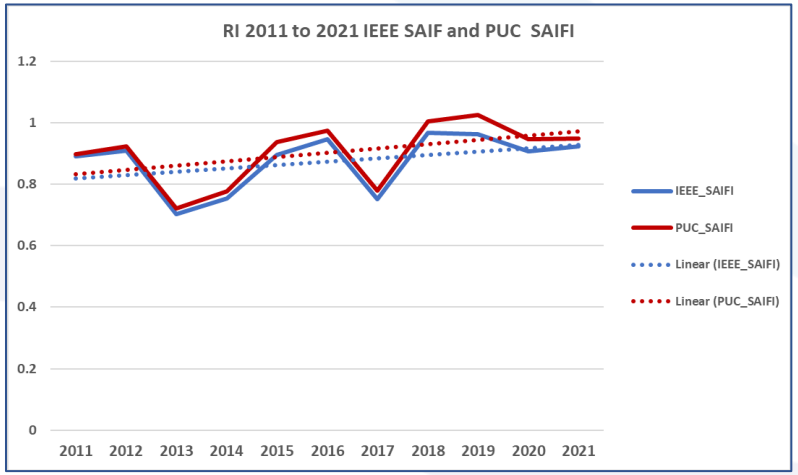
- Consequence:
  - Increasing reliability and safety risk (see trend)
  - DER curtailment and interconnection delays
  - Challenges to recover from major events
  - Recent example at Nasonville



Solar DER nominal voltage output in RIE Newport Region - May 2022

*Required to maintain ±5% of nominal voltage ie 0.95 to 1.05 per unit voltage.

*Voltage repeatedly exceeds 1.05 per unit operating target



SAIFI trending worse (up) in recent years

Grid Modernization Tiverton Preliminary Area Solutions

- Non-Grid Mod Solutions
  - 3 new feeders added to existing Tiverton Substation
  - New area Substation with 2 new feeders added

- Grid Mod Solutions
  - 2 new feeders to existing Tiverton Substation
  - 4 BESS Sites - Generation shifts
  - Load shifts

- Non-Grid Mod solutions will inform deferred capital investment of the Grid Mod Plan
  - Savings in an order of 30-50%

How are Area Study Investments Impacted – Example #1

- Reinforces Tiverton Area Study Recommendation:
  - Extend a new 33F6 circuit to Brayton Road
  - Use 33F6 to pick up load from other circuits
  - Reconductor ~ 1 mile of conductor and install 33F6/33F4 Feeder Tie

Project	FY23*	FY24	FY25	FY26	FY27	FY28	FY29	Total
Tiverton Sub (D-Line)	$ 64	$ 291	$ 574	$ 656	$ 410	$ 164	$ 27	$ 2,187
Tiverton Sub (D-Sub)	$ 85	$ 341	$ 687	$ 786	$ 491	$ 196	$ 33	$ 2,619
*FY23 9 month spend April 1 – December 31								

*FY23 - 9 Months April 1 - December 31, 2023
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- Refer to Grid mod plan to inform Engineering and Design
- May see modest increases to proposed area study recommendation spend to accommodate future infrastructure needed for DER enablement
  - Full substation bay build out
  - Extra duct banks in manhole & duct system
  - Line work to consider clearances for additional OH Circuits

How are Area Study Investments Impacted – Example #2

- Reconsider Newport Area Study Merton Substation Recommendation:
  - Rebuild existing 4kV Merton Substation due to asset condition issues

Project	FY23*	FY24	FY25	FY26	FY27	FY28	FY29	Total
Merton #51 Equipment Replacement (D-Sub)	$ -	$ 919	$ 1,531	$ 1,939	$ 2,041	$ 1,429	$ 306	$ 8,164
*FY23 9 month spend April 1 – December 31								

*FY23 - 9 Months April 1 - December 31, 2023
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- Grid Mod Recommendation:
  - Convert Substation and Distribution Line to 12kV
- Engineering Scheduled Start FY24
  - FY25 – FY29 estimates will be revised appropriately

Key Takeaways

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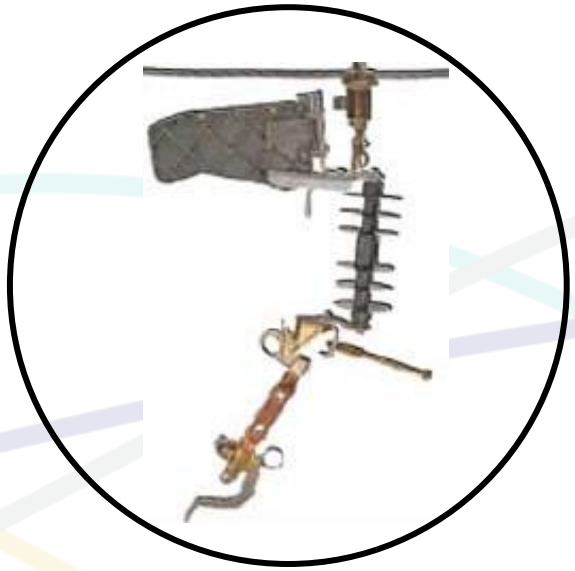
- System must be setup with proper sensing and data handling and processing. The need is now!
- Combined Grid Modernization devices provide comprehensive situational awareness and control required – e.g. FLISR, VVO, DER Monitor/Manage, Advanced Reclosers, Smart Capacitors and Regulators, Relay Upgrades
- The greatest Grid Modernization benefits are achieved when linked to an AMF deployment
- Grid Modernization study used a dispersed DER allocation to test system limits and identify solutions required to meet Act on Climate and clean energy policies
  - Grid Modernization technology provides the operational capabilities needed and is a more economical alternative. System requirements are being factored into Long Range Planning
  - Actual interconnections can cause localized issues in the immediate future
  - Future infrastructure investments will be informed by customer DER adoption
- The ADMS Platform is being provided to RIE at no cost and enables a wide range of immediate benefits
- Deployment will take time: many other utilities are addressing the same issues. Supply chain issues, system issues, operational needs dictate that RIE deploy GMP on an accelerated basis.

The Present - Mechanical Devices

Protective:
Oil-Circuit Recloser

Sectionalizing:
Air-Break Switch



Sectionalizing:
Load-Break Switch

Sectionalizing:
Fused Cutout

The Proposed – Grid Modernization Components

Protective & Sectionalizing:
Vacuum Circuit Recloser

Switchable Capacitor Controller

Voltage Regulator Controller

Recloser Control with Downed Conductor Detection

Cellular and Fiber Communications

ADMS

System Operations:
FLISR and VVO enabled

- Provides operational flexibility, remote settings and operation, ADMS telemetry, forward/reverse fault detection
- Collectively provides comprehensive situational awareness and increased system control
- The greatest benefits when linked to an AMF

Grid Modernization Capital Investment by Technology

Program	FY23	FY24	FY25	FY26	FY27	FY28	Total
ADMS/DERMS Advanced	$ 105	$ 140	$ 3,160	$ 1,569	$ 4,387	$ 2,168	$ 11,529
Advanced Capacitors & Regulators	$ 4,629	$ 6,171	$ 6,210	$ 6,300	$ 6,480	$ 1,800	$ 31,590
Advanced Reclosers	$ 17,405	$ 25,190	$ 25,694	$ 26,208	$ 26,732	$ 27,266	$ 148,494
DER Monitor/Manage	$ 651	$ 831	$ 1,017	$ 1,210	$ 1,322	$ 1,437	$ 6,469
Electromechanical Relay Repl Pgm	$ 2,040	$ 2,789	$ 4,829	$ 8,145	$ 6,461	$ 6,355	$ 30,618
Fiber Network	$ 8,105	$ 11,348	$ 17,875	$ 15,278	$ 7,997	$ 7,997	$ 68,600
IT Infrastructure	$ 1,514	$ 2,019	$ 2,999	$ 4,282	$ 4,837	$ 757	$ 16,408
Mobile Dispatch	$ 74	$ 98	$ 172	$ 196	$ 196	$ 49	$ 784
Total	$ 34,522	$ 48,586	$ 61,955	$ 63,187	$ 58,413	$ 47,829	$ 314,492

*FY23 - 9 Months April 1 - December 31, 2023

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Long Range Plan – Area Studies & Grid Mod

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Program	Previous Year Spend	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	Sum of Total
Central RI East Area Study	$ -	$ 763	$ 1,428	$ 1,096	$ 255	$ 16		$ -	$ -	$ -	$ -	$ -	$ 3,558
South County East Area Study	$ 3,236	$ 750	$ 750	$ 5,344	$ 151	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,231
Northwest RI Area Study	$ -	$ 3,524	$ 3,192	$ 3,696	$ 3,415	$ 4,669	$ 3,040	$ 1,463	$ 293	$ -	$ -	$ -	$ 23,290
South County West Area Study	$ -	$ 236	$ 1,388	$ 3,686	$ 5,529	$ 4,939	$ 4,490	$ 3,014	$ 992	$ 119	$ -	$ -	$ 24,392
Central RI West Area Study	$ -	$ 5,725	$ 5,799	$ 8,635	$ 9,089	$ 6,362	$ 1,363	$ -	$ -	$ -	$ -	$ -	$ 36,973
Blackstone Valley South Area Study	$ -	$ 1,128	$ 1,552	$ 1,816	$ 2,554	$ 2,020	$ 1,426	$ 905	$ 193	$ -	$ -	$ -	$ 11,593
Newport Area Study	$ -	$ -	$ 4,708	$ 7,905	$ 9,216	$ 8,846	$ 6,046	$ 1,296	$ -	$ -	$ -	$ -	$ 38,017
Providence Area Study	$ 4,530	$ 32,067	$ 20,566	$ 19,130	$ 14,477	$ 8,287	$ 8,788	$ 3,580	$ 1,529	$ 3,183	$ 1,325	$ 130	$ 117,591
East Bay Area Study	$ 2,084	$ 5,592	$ 10,839	$ 11,555	$ 9,046	$ 3,116	$ 323	$ -	$ -	$ -	$ -	$ -	$ 42,553
Tiverton Area Study	$ -	$ 149	$ 632	$ 1,262	$ 1,442	$ 901	$ 360	$ 60	$ -	$ -	$ -	$ -	$ 4,806
Grid Modernaziation	$ -	$ 34,522	$ 48,586	$ 61,955	$ 63,187	$ 58,413	$ 47,829					$ -	$ 314,492
Grand Total	$ 9,850	$ 84,455	$ 99,439	$ 126,079	$ 118,360	$ 97,569	$ 73,665	$ 10,317	$ 3,006	$ 3,302	$ 1,325	$ 130	$ 627,497

*FY23 - 9 Months April 1 - December 31, 2023
$,000

- Project schedules and cash flows were developed based on the need identified during the area study, required sequencing of the work, and resource needs.
  - Prioritization is informed by study factors
  - Projects with specific driver are not prioritized or ranked against other projects with the same driver. Example – one oil leak is not compared against another oil leak
  - Severity of the physical, mechanical, or electrical condition cannot be compared to develop a prioritization
  - While affordability is a concern, benefits outweigh the costs and can affect long term affordability

Long Range Planning Investment Scope Includes GMP

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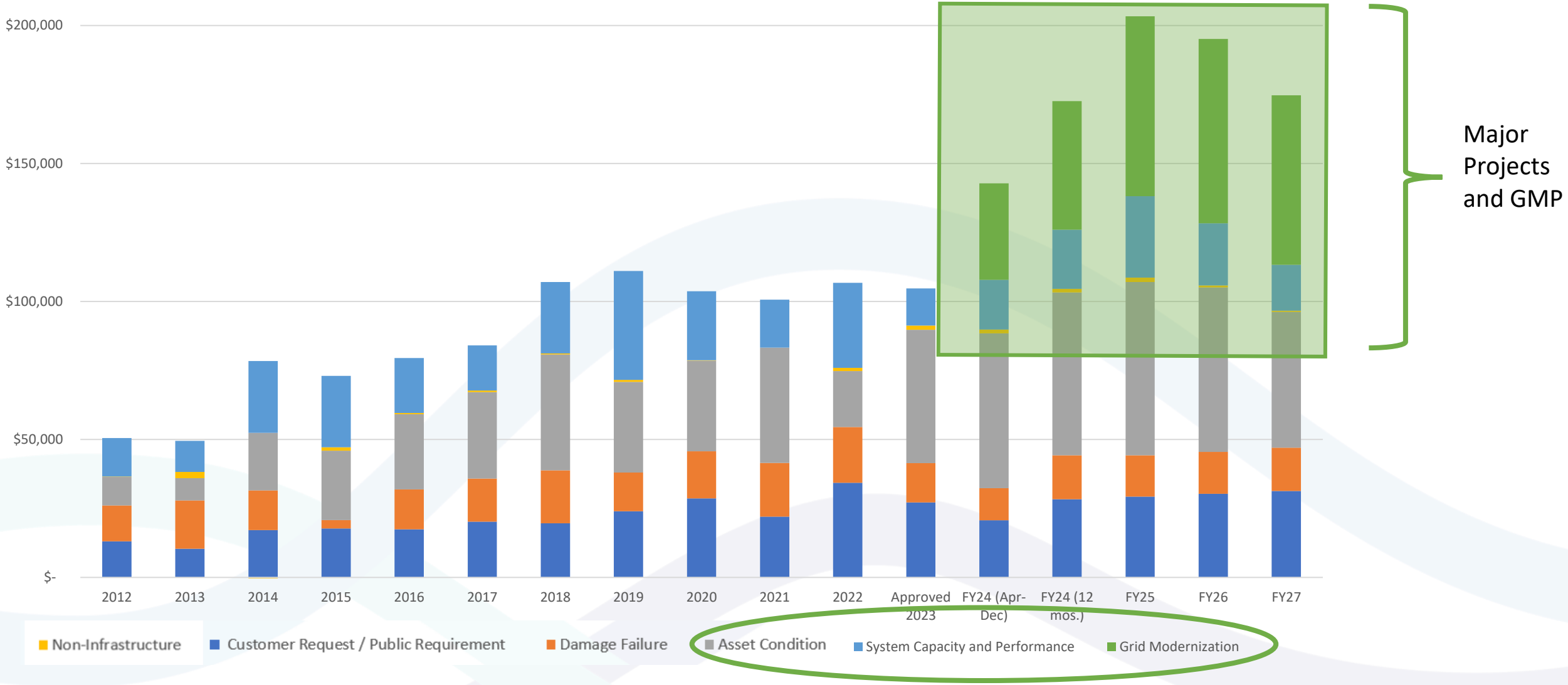
RIE ISR Historical and Projected Totals (000s)

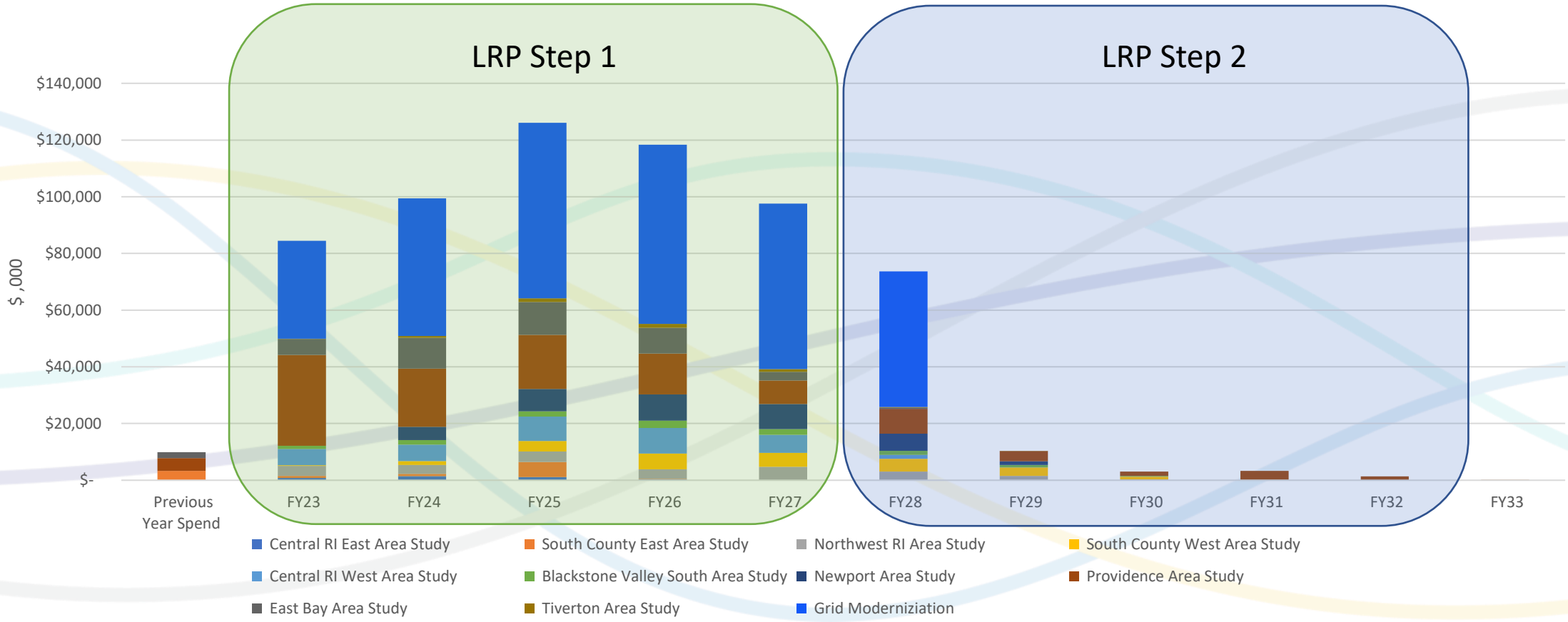
Infrastructure investments in ISR 24



Major Projects and GMP

Business Use

Long Range Plan – Area Studies & Grid Mod



- Future area infrastructure investments expected to be introduced in Long Range Plan after FY26
- Informed by actual customer DER adoption

Appendix

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Grid Modernization: Why? Why NOW??

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- Grid was originally **designed for one-way power flow**, provides little distribution operator visibility and limited automation
- **Accelerated grid transformation needed** for 21st century to manage increased complexity. Caused by increased DER penetration and electrification reinforced by State clean energy policy
- Successful operations requires comprehensive **situational awareness** and more **system control**
- Capability provided by **AMF and GMP**
- The **time is NOW:** Reliability trends, Nasonville lessons, renewable interconnection queue, hidden load from switching, high-end DER forecast adoption, clean energy mandates, ADMS availability, increased GMP capability from PPL experience
- **Impacts of a delay:** opportunity cost, customer service, safety, reliability, increased costs, affordability risks, supply chain, delayed benefits, ability to enable clean energy
- **Included in FY24 ISR:** accelerating GMP investments