



Advancing Rhode Island's Electric Distribution System for the Clean Energy Future

Rhode Islanders are facing new challenges with higher energy prices, but that shouldn't mean they need to sacrifice other priorities. That's why we're proposing two long-term investment plans that will improve the safety, reliability, affordability, and sustainability of our power systems.

Four Drivers of Upcoming Investment Proposals

AMF will replace today's existing, aged meters to enable a two-way flow of valuable energy information for the utility and its customers, help improve service reliability, and provide greater visibility for grid operators managing increased system complexity from renewable and other intermittent distributed energy resources.



Modernized System

Similar to USPS or UPS, we're a delivery services company. Advanced meter data is critical for the necessary level of visibility and control of the electric grid.



Operational Needs

Approximately 60% of our existing meters are nearing the end of their design life and need to be replaced.



Climate Mandates

2021 Act on Climate requires net-zero greenhouse gas emissions by 2050; 100% Renewable Energy Standard by 2033.



Customer Expectations

Customers expect to be able to easily manage their energy use and resulting utility bills; superior customer experience.



First Proposal: Advanced Metering Functionality (AMF)

Foundational data to see grid conditions and customer needs



Second Proposal: Grid Modernization Plan (GMP)

Describes full roadmap of advanced technology investments

Combined AMF + GMP advance core objectives

Together, our AMF proposal and Grid Modernization Plan will modernize Rhode Island's electric distribution grid for future generations. We're investing in the state's future to build one of the nation's most advanced energy grids – one that is smarter, more flexible, more resilient, allows for safe and efficient response during storms, and expedites the clean energy transition.

Advanced Metering Functionality (AMF)

Existing meters are at end of life and must be replaced; advanced meters result in **lifetime savings for customers**.

Near real-time/highly granular data is **necessary to meet our climate mandates** reliably and affordably.

Improved data and greater control are necessary to support **safe, reliable service** now and into the future.

Grid operators will know **exactly whose power is out when**; customers no longer need to report power is out.

Customers can access **data to manage energy use** and utility bills resulting in greater affordability and superior customer experience.



Grid Modernization Plan (GMP)

Advanced meters provide the data backbone to better utilize and operate grid infrastructure, improve service and reliability, and **right-size build-out to reduce long-term costs**.

Easier and less costly to interconnect renewable energy, energy storage, electric transportation and heat.

Remote operation and refined control means improved **safety and protection** for workers and infrastructure.

Software can automatically re-route electricity to reduce outages in our **"self-healing" grid**.

Fewer shorter outages and managed more affordable costs are primary **drivers of customer satisfaction**.



AMF Business Plan: Ensuring Greater Reliability, Resiliency, and Affordability

Mitigating risks by relying on experience

Relying upon PPL's prior experience in advancing the electric system and deploying these technologies in other territories will benefit Rhode Island customers in a variety of ways.

Significant Experience



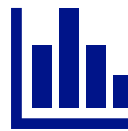
Second generation deployment in PA, active deployment in KY

Benefitting from Lessons Learned



Efficiencies, vendor relations, purchasing power, shared network services, advanced analytics

Robust Data Governance



Convenient data access for customers and their delegates without compromising data security

Strong & Tested Cybersecurity



Demonstrated cybersecurity protocols mitigate risk of data breaches and ensure electric system integrity

Thoughtful Engagement



Thorough plan for customer engagement with special care for sensitive communities

Benefits of AMF exceed its costs

Our proposed AMF investment is a necessary first step toward broader efforts to modernize our electric grid, improve service and reliability, and right-size build-out to reduce long-term system costs.

