

Standing Committee on Natural Resources and Environmental Sustainability

of the Legislative Assembly of Prince Edward Island

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Overview of Today's Key Discussion Areas

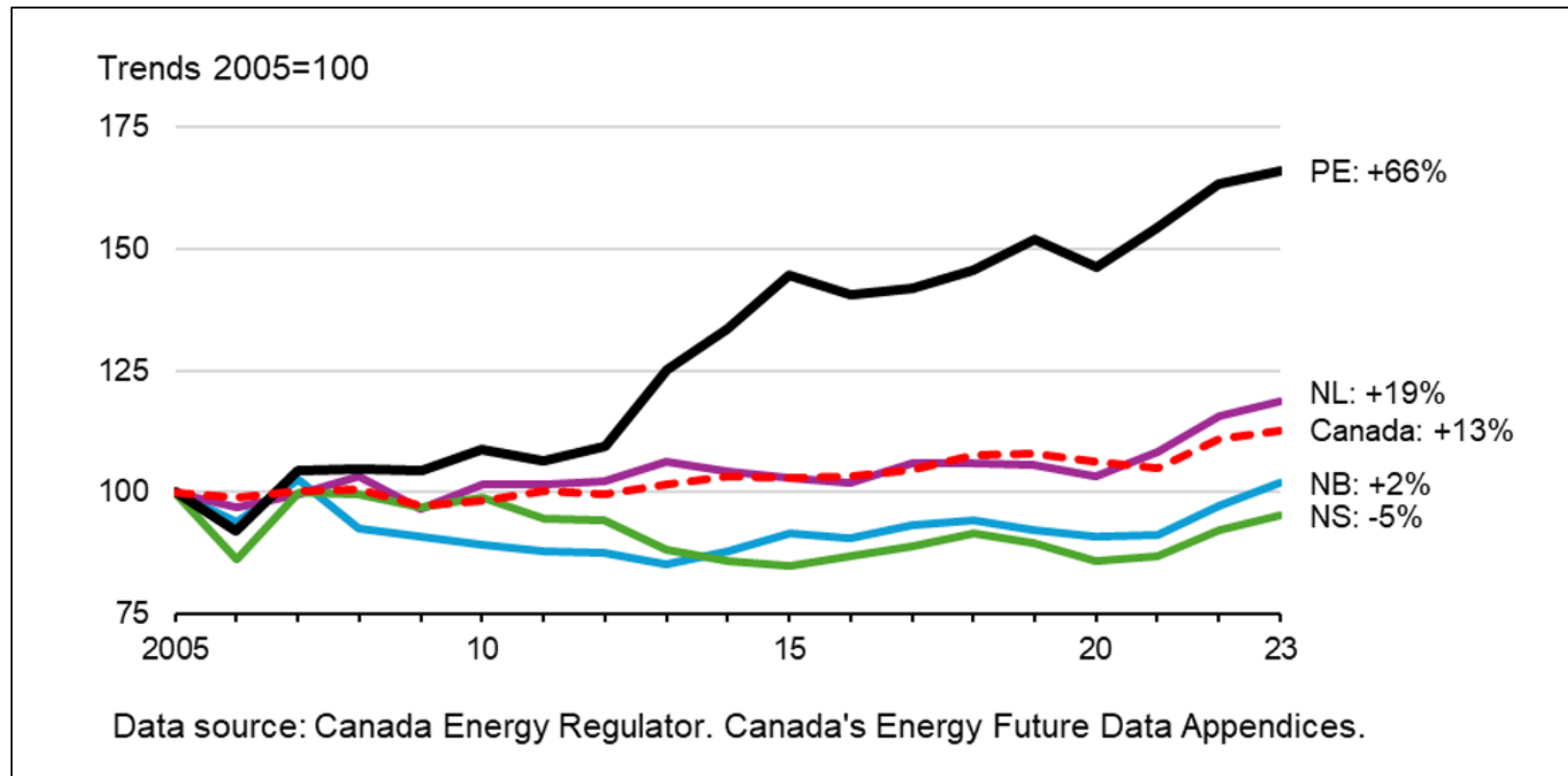
- Introductions
- PEI Load Growth
- Regional Capacity Plans
- On-Island Generation Application Update
- Electricity Rates Outlook
- Planning for New Brunswick Interconnection
- Closing Remarks



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PEI Load Growth is Leading the Country



Capacity Shortage is a Regional Concern

New Brunswick

- 500 MW of new CTs recently announced

Nova Scotia

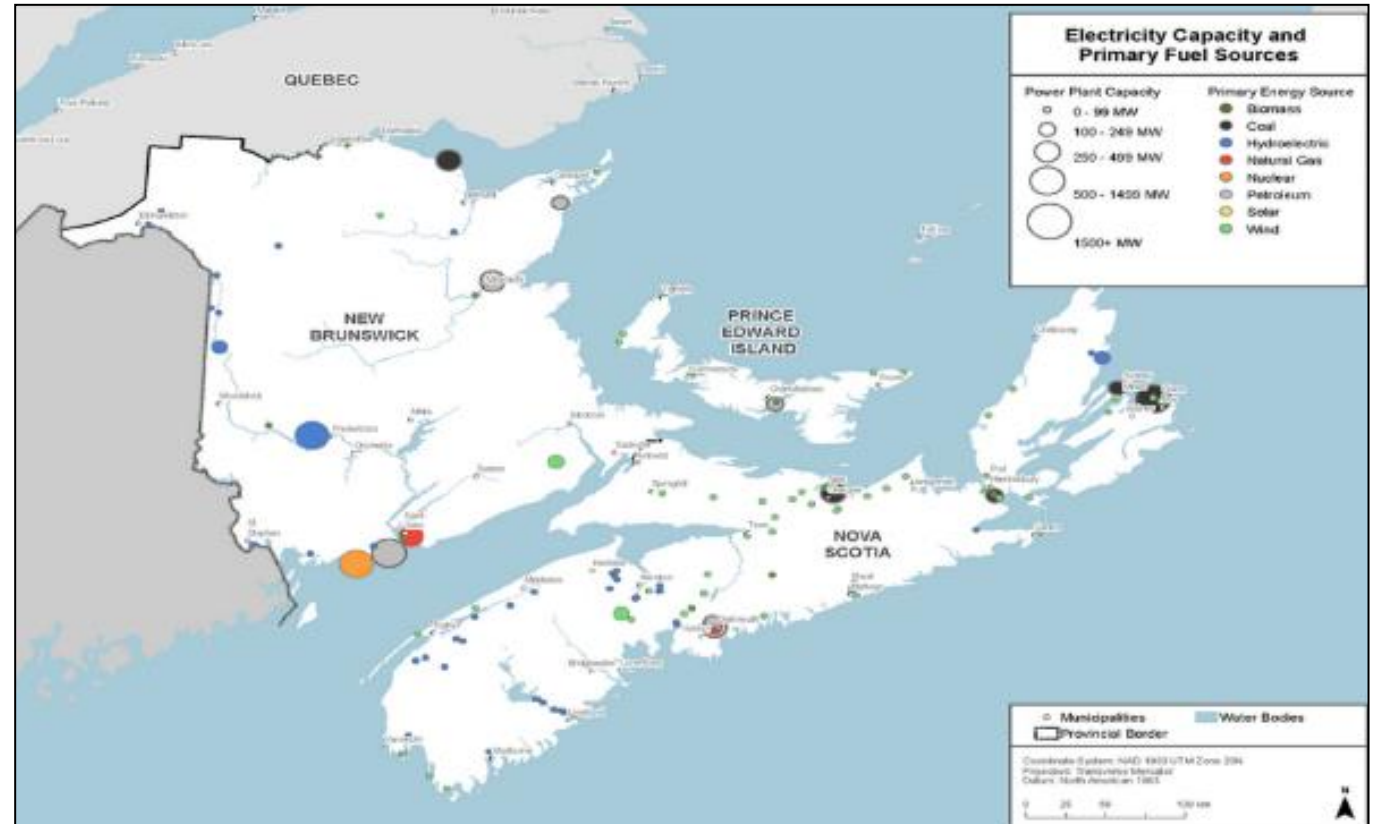
- 750 MW of new CTs required by 2030

Newfoundland and Labrador

- 385 MW of additional capacity required by 2034

Quebec

- 8,000-9,000 MW of additional capacity required by 2035



Regional Capacity Shortage information included in Section 7.2.1 of the Application

Regional Capacity Plans



300 MW natural gas/diesel
turbine plant



Énergie NB Power

500 MW natural gas/diesel
turbine plant



150 MW diesel combustion
turbine plant

Project Description

The Project consists of an up to 300 megawatt (MW) power plant known as the Fast Acting Natural Gas Power Generation Facility – Marshdale, located near the community of Marshdale in the Municipality of Pictou County.

The proposed facility will operate only when the power grid requires additional supply. It will play a critical role in ensuring a reliable electricity supply, integrating more renewables in the future, and is designed to transition to low-carbon fuels like hydrogen and biofuels.

PRIMARY COMPONENTS

- Fast Acting Power Generation Equipment**
Facility will include multiple turbine generators up to 300 MW total capacity, each supported by an air inlet filtration unit, start-up system and exhaust stack.
- Electrical Grid Interconnection**
Powerline connections to existing transmission lines.
- Fuel Supply**
Natural gas supply from existing natural gas pipeline. Light fuel oil will be trucked to site and stored in tanks with fail safe secondary containment. Facility will be designed for conversion to hydrogen or biofuels in the future.
- The Facility**
The Project will have water storage and processing facilities. There will be winterized buildings for controls and instrumentation.

Aerial photograph of a similar facility



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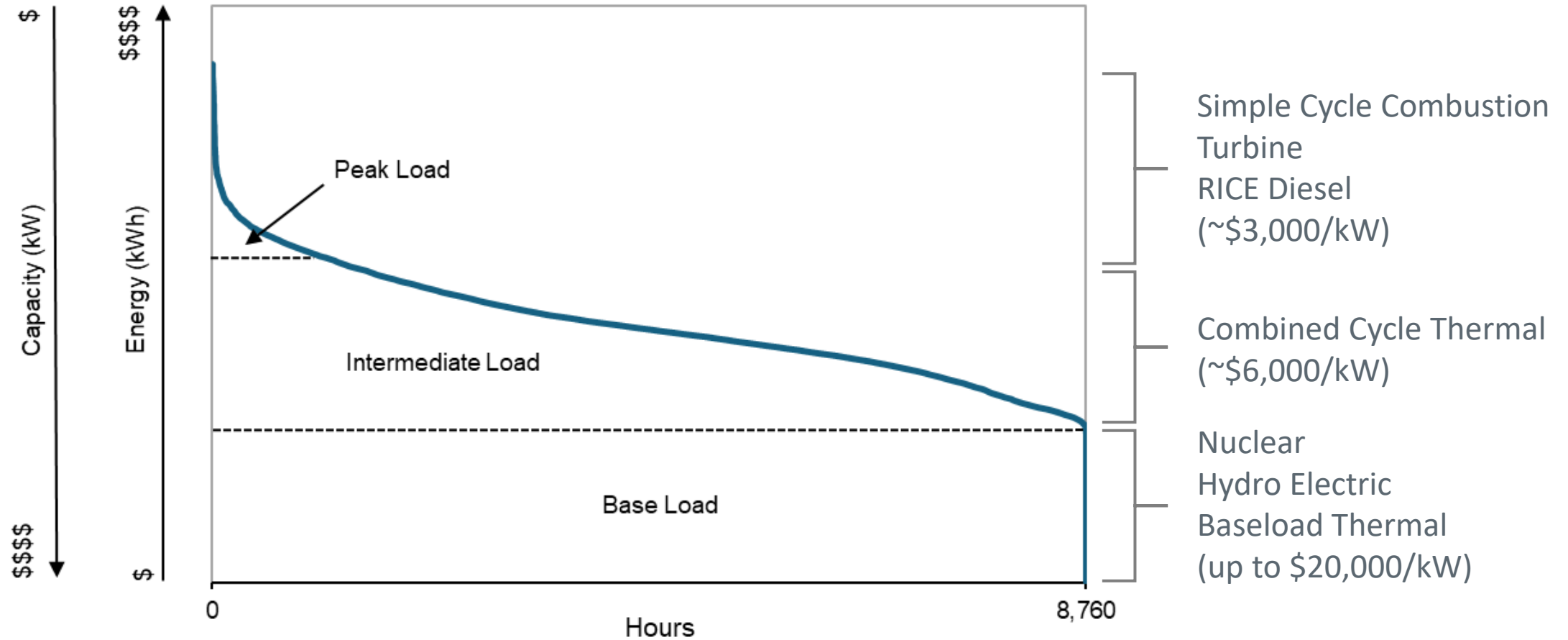
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Least Cost and Most Timely Solution

- 100 MW combustion turbine package (2 x 50 MW units) installed at Charlottetown Generating Station
- Time-sensitive slot reservation opportunity available
- Total estimated project cost of CAD \$334 million
- Commissioning by 2028 (versus 2030+)



Combustion Turbines are for Peak Load



The Accelerated Capacity Solution has Significant Benefits for Customers

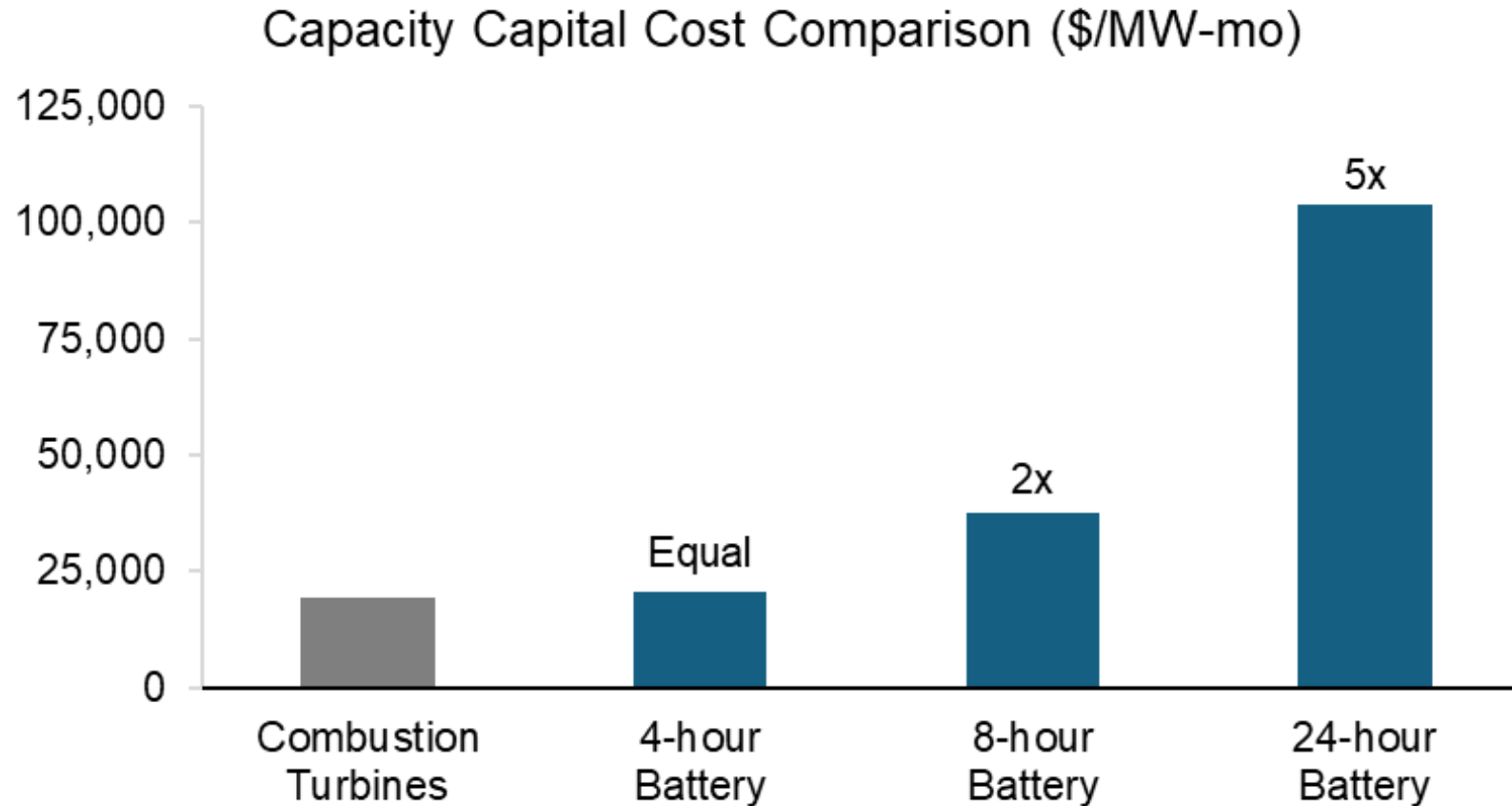
- ✓ Accelerated timeline reduces rotating outage risks
- ✓ Lower cost than new combustion turbines
- ✓ Estimated net present value savings of approximately 50%
- ✓ Same turbine model as CT3 provides operational familiarity and efficiencies



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Long-Duration Batteries are Cost Prohibitive



Environmental Considerations

ProEnergy's PE6000 standard package includes:

- ✓ Dual fuel capability (diesel fuel and natural gas) + alternative clean fuels capable
- ✓ Selective catalytic reduction (SCR) system
- ✓ Nitrous oxide (NOx) emission control system
- ✓ Continuous emissions monitoring system (CEMS)

PEI petroleum products consumption:





- PEI 2024 total petroleum consumption: 444,182 cubic metres (PEI 2024 annual statistical review)
- Maritime Electric 2024 generation: 646 cubic metres (0.1% of PEI total)



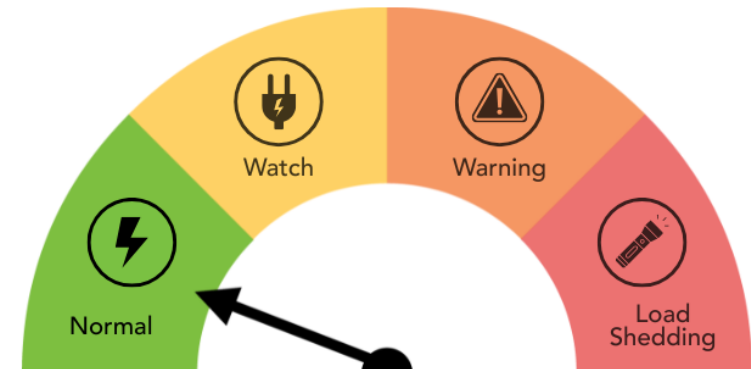
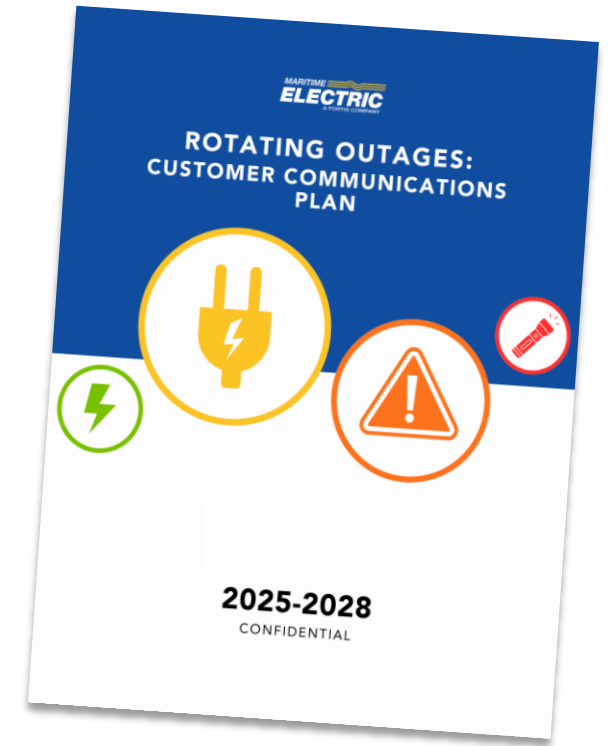
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Customer Communications & Information for Load Shedding

			
Normal POWER SYSTEM IS OPERATING UNDER NORMAL CONDITIONS No immediate action required by customers.	Watch POWER SYSTEM IS EXPERIENCING HIGHER THAN USUAL DEMAND Customers should be prepared to conserve electricity where possible.	Warning APPROACHING MAXIMUM SYSTEM CAPACITY Customers should turn off high consumption appliances, reduce thermostat and prepare for rotating outages. Please conserve energy during peak times, between 6-10 AM and 4-9 PM.	Load Shedding CONTROLLED ROTATING POWER OUTAGES ARE IN EFFECT TO PROTECT THE POWER SYSTEM Customers may be without power during peak demand times and should monitor the Company's website and social media channels for updates.

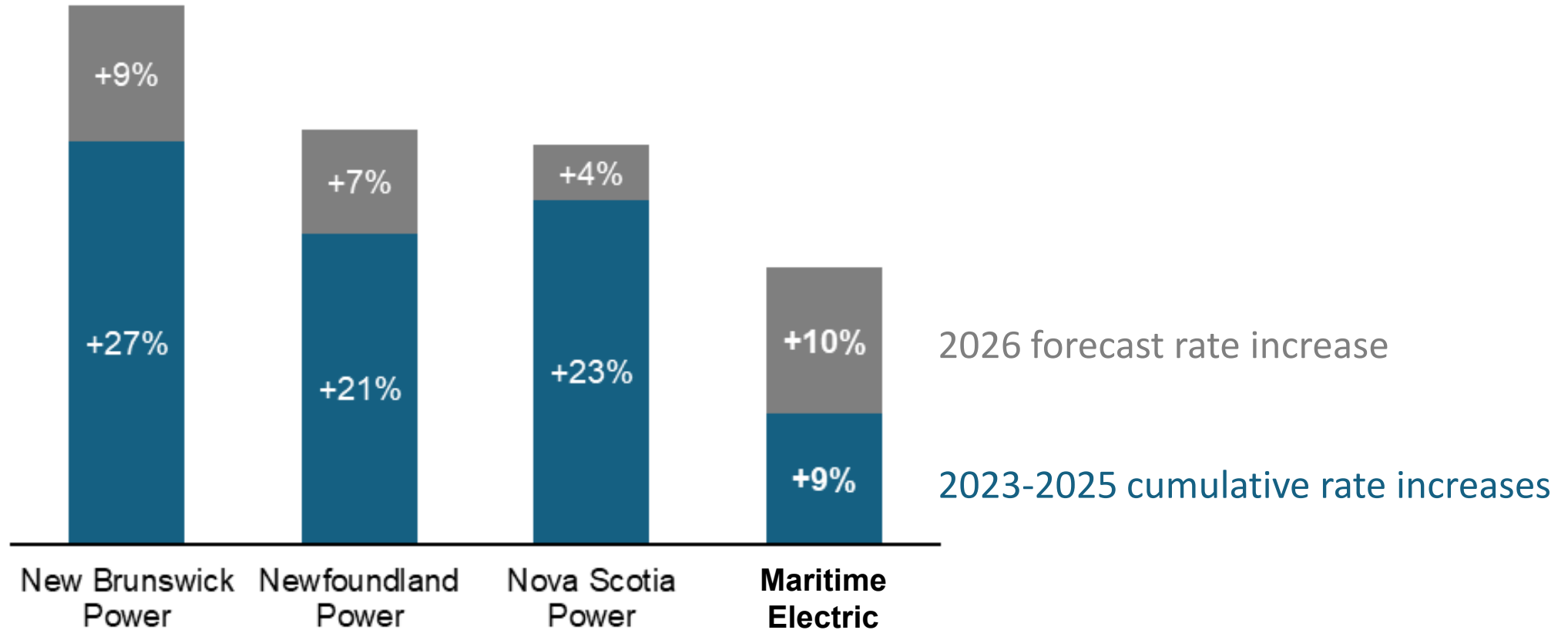
Keeping You Informed: Grid Status **DRAFT** All our energy. All the time. **MARITIME ELECTRIC** A FORTIS COMPANY



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Electricity Rates are Increasing in the Region



Future Customer Rates Outlook

- 2025 Application to IRAC for energy costs incurred for customers
- Hurricane Fiona Recovery
- New General Rate Application in 2026
- Accelerated Capacity Solution for On-Island Generation Project - \$334M
- Ongoing infrastructure replacement and upgrades



Longer Term Planning For Subsea Cables

Cables 1 & 2

- Installed in 1977
- 100 MW each
- Nearing end of life
- Replacement planned \approx 2030

Cables 3 & 4

- Installed in 2016/2017
- 180 MW each



Closing Remarks



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THANK YOU



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