

# Standing Committee on Natural Resources and Environmental Sustainability

of the Legislative Assembly of Prince Edward Island

Jason Roberts, President & CEO

Angus Orford, Vice President, Corporate Planning & Energy Supply

January 8, 2026



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY



# Overview of Today's Key Discussion Areas

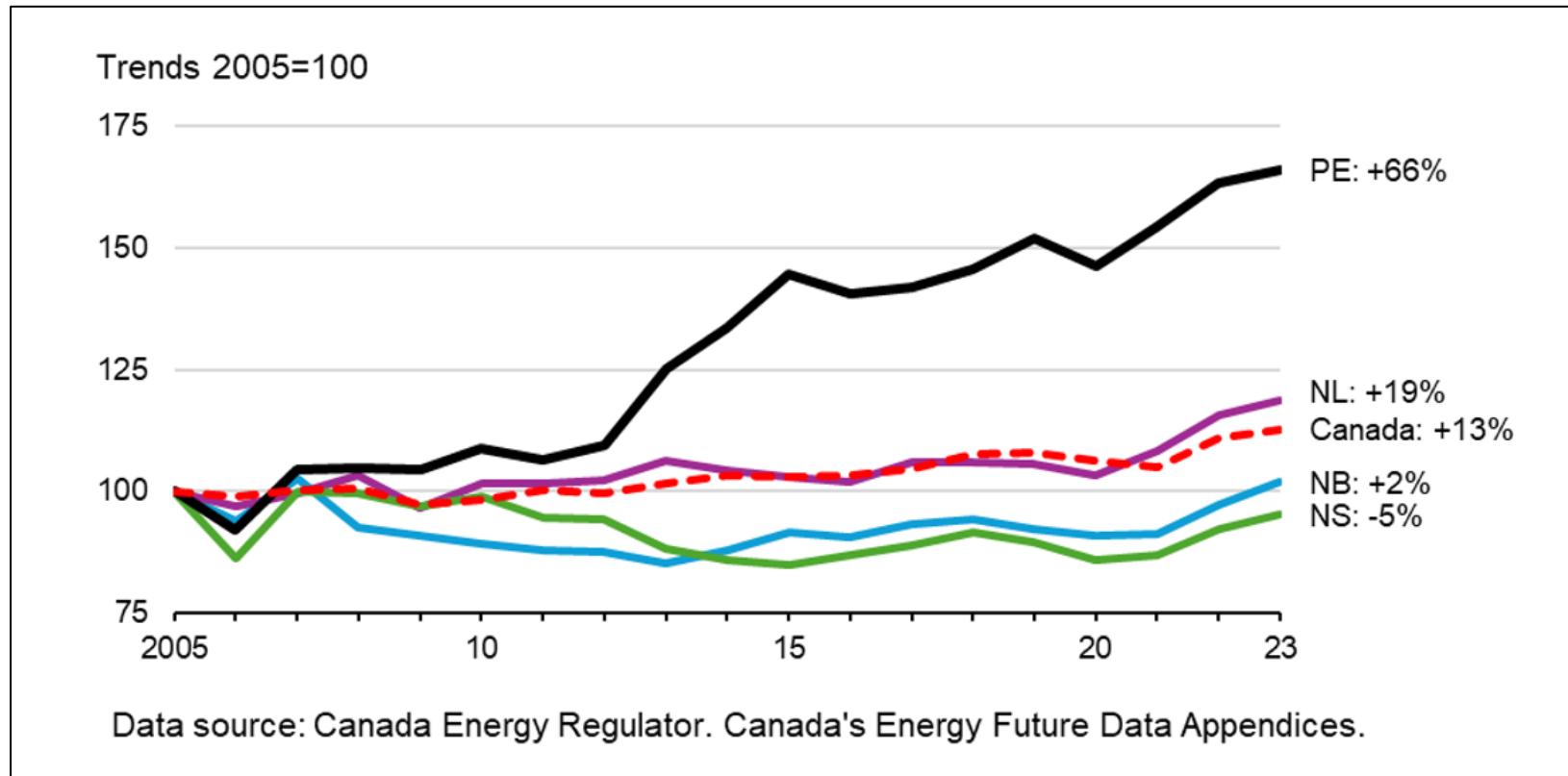
- Introductions
- PEI Load Growth
- Regional Capacity Plans
- On-Island Generation Application Update
- Electricity Rates Outlook
- Planning for New Brunswick Interconnection
- Closing Remarks



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# PEI Load Growth is Leading the Country



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# Capacity Shortage is a Regional Concern

## New Brunswick

- 500 MW of new CTs recently announced

## Nova Scotia

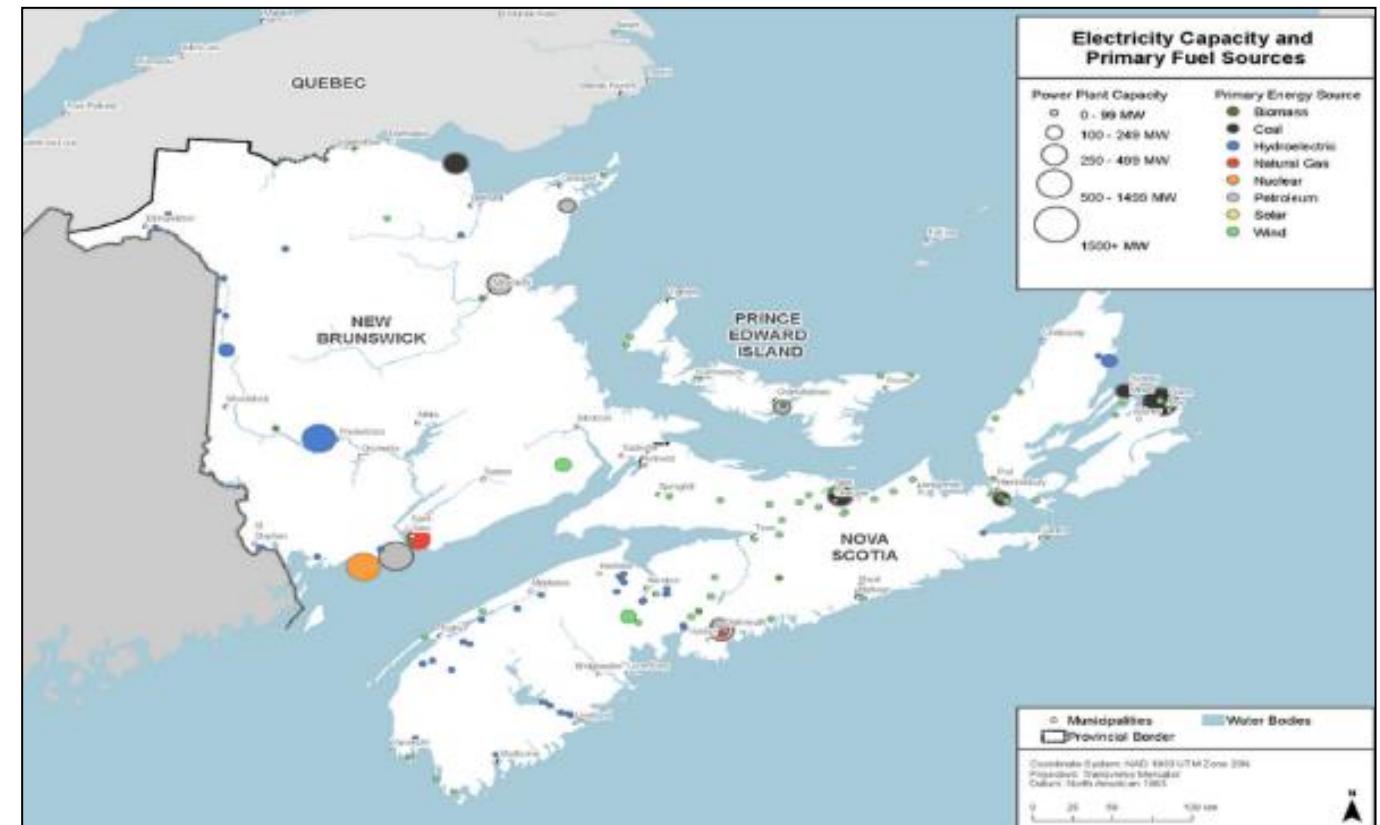
- 750 MW of new CTs required by 2030

## 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*

All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# Regional Capacity Plans



300 MW natural gas/diesel  
turbine plant



## Project Description

Aerial photograph of a similar Facility

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.



500 MW natural gas/diesel  
turbine plant



150 MW diesel combustion  
turbine plant



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# Least Cost and Most Timely Solution

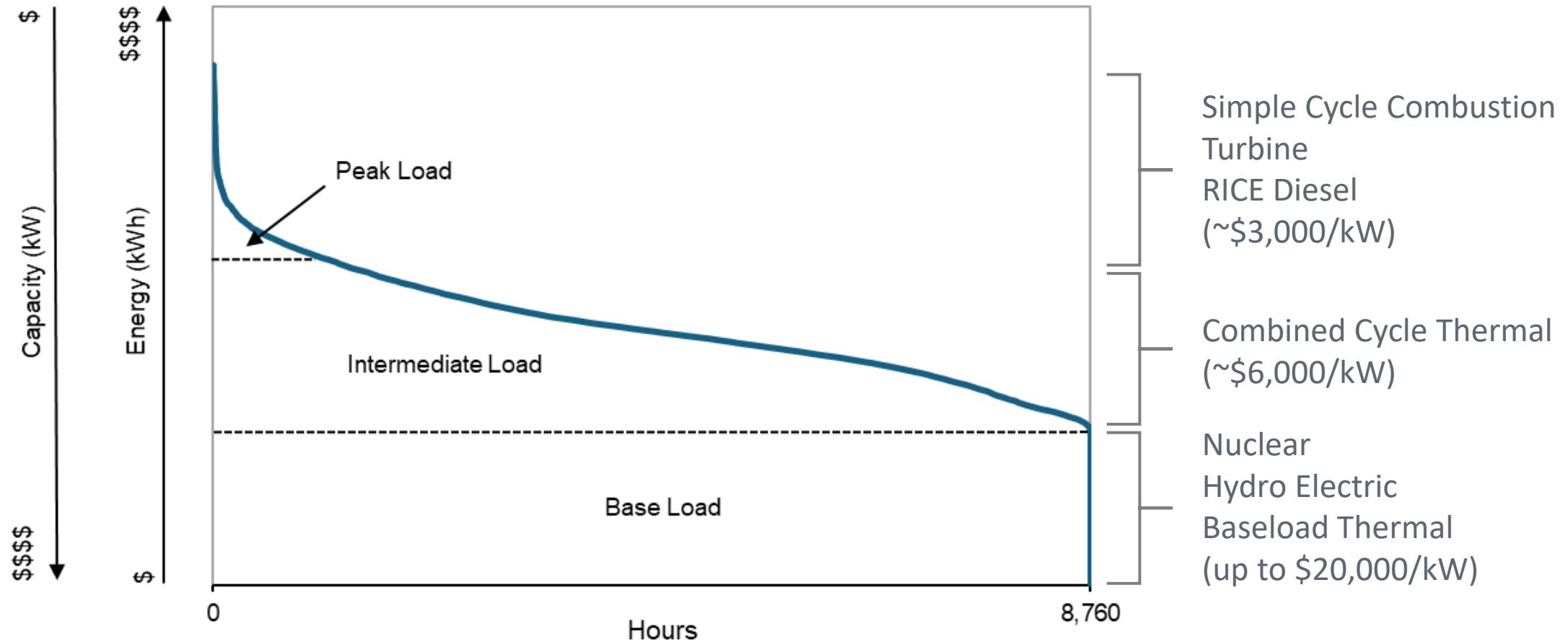
- 100 MW combustion turbine package (2 x 50 MW units) installed at Charlottetown Generating Station
- Time-sensitive slot reservation opportunity available
- Total estimated project cost of CAD \$334 million
- Commissioning by 2028 (versus 2030+)



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# Combustion Turbines are for Peak Load



# The Accelerated Capacity Solution has Significant Benefits for Customers

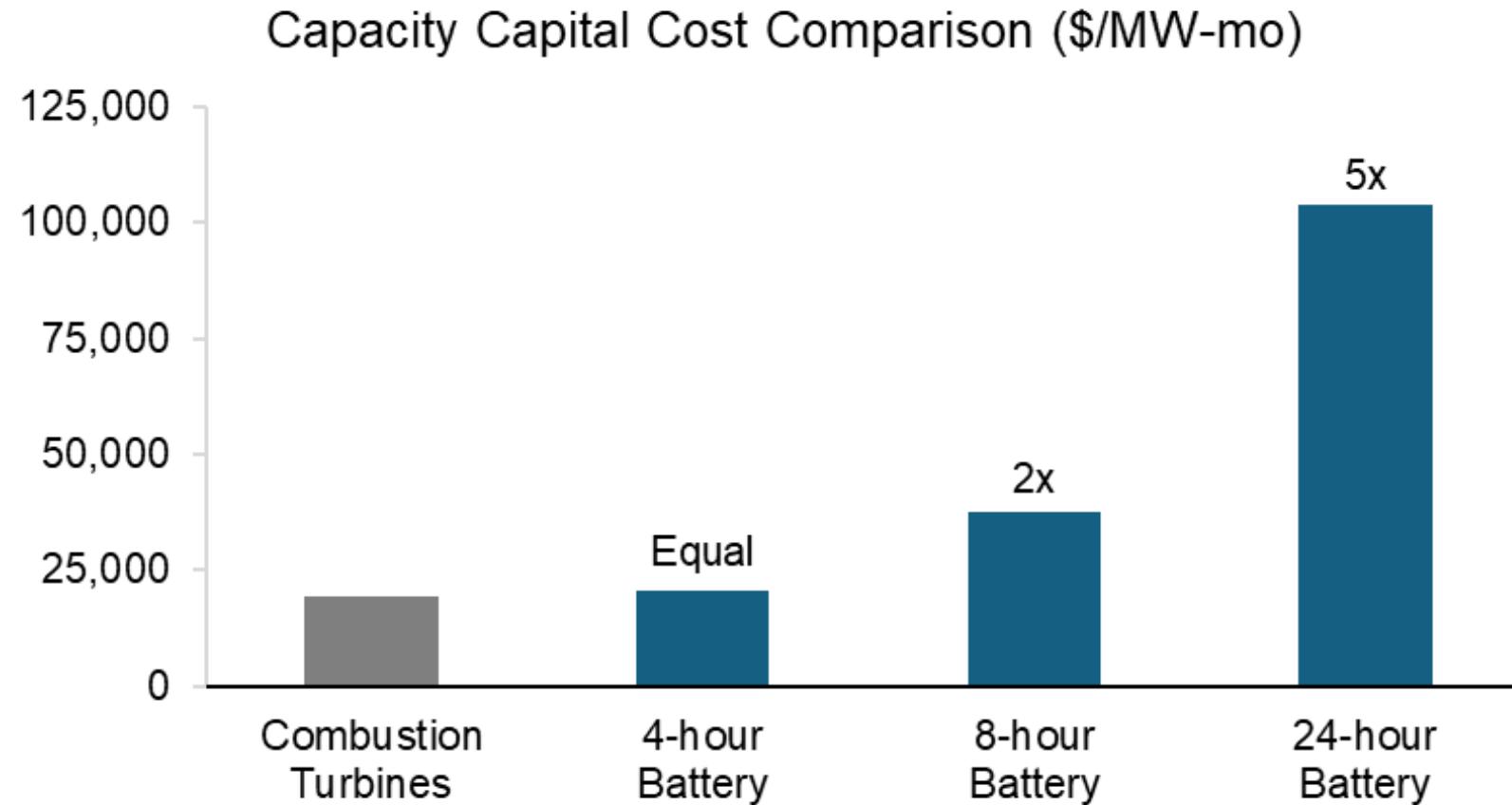
- ✓ Accelerated timeline reduces rotating outage risks
- ✓ Lower cost than new combustion turbines
- ✓ Estimated net present value savings of approximately 50%
- ✓ Same turbine model as CT3 provides operational familiarity and efficiencies



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# 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:

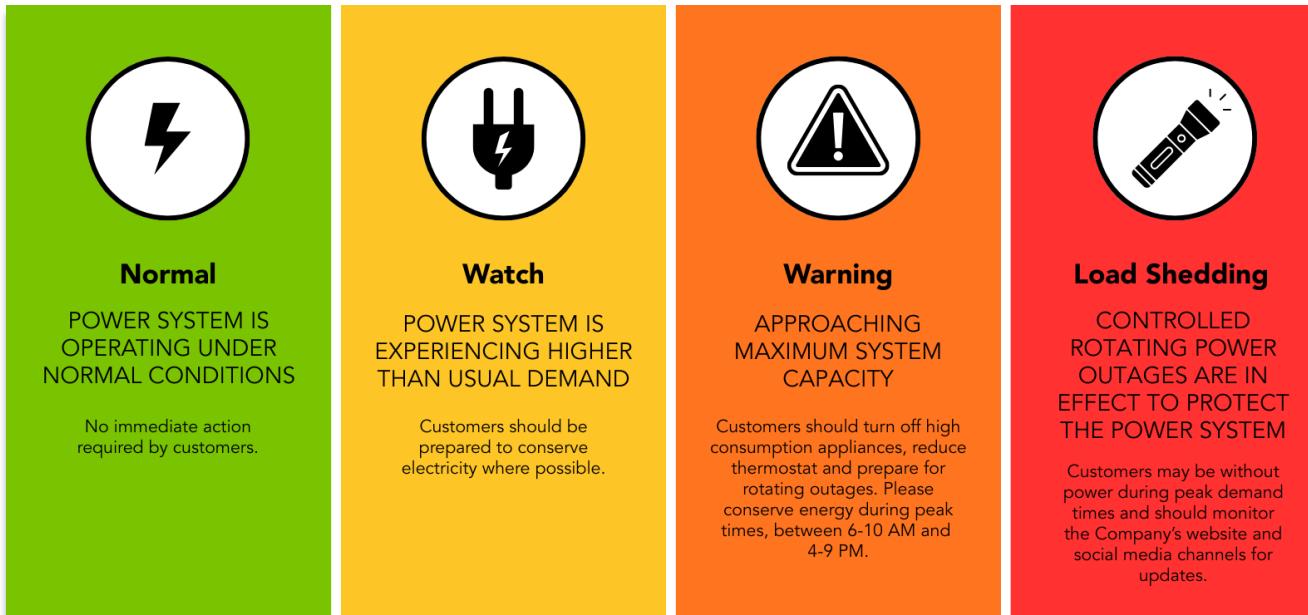
- PEI 2024 total petroleum consumption: 444,182 cubic metres (PEI 2024 annual statistical review)
- Maritime Electric 2024 generation: 646 cubic metres (0.1% of PEI total)



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# Customer Communications & Information for Load Shedding

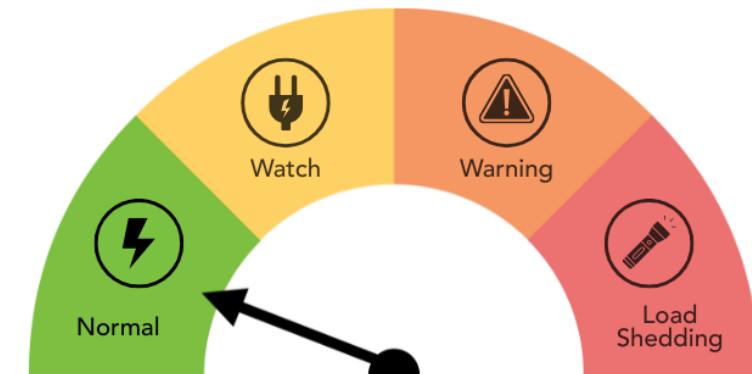


Keeping You Informed: Grid Status

DRAFT

All our energy.  
All the time.

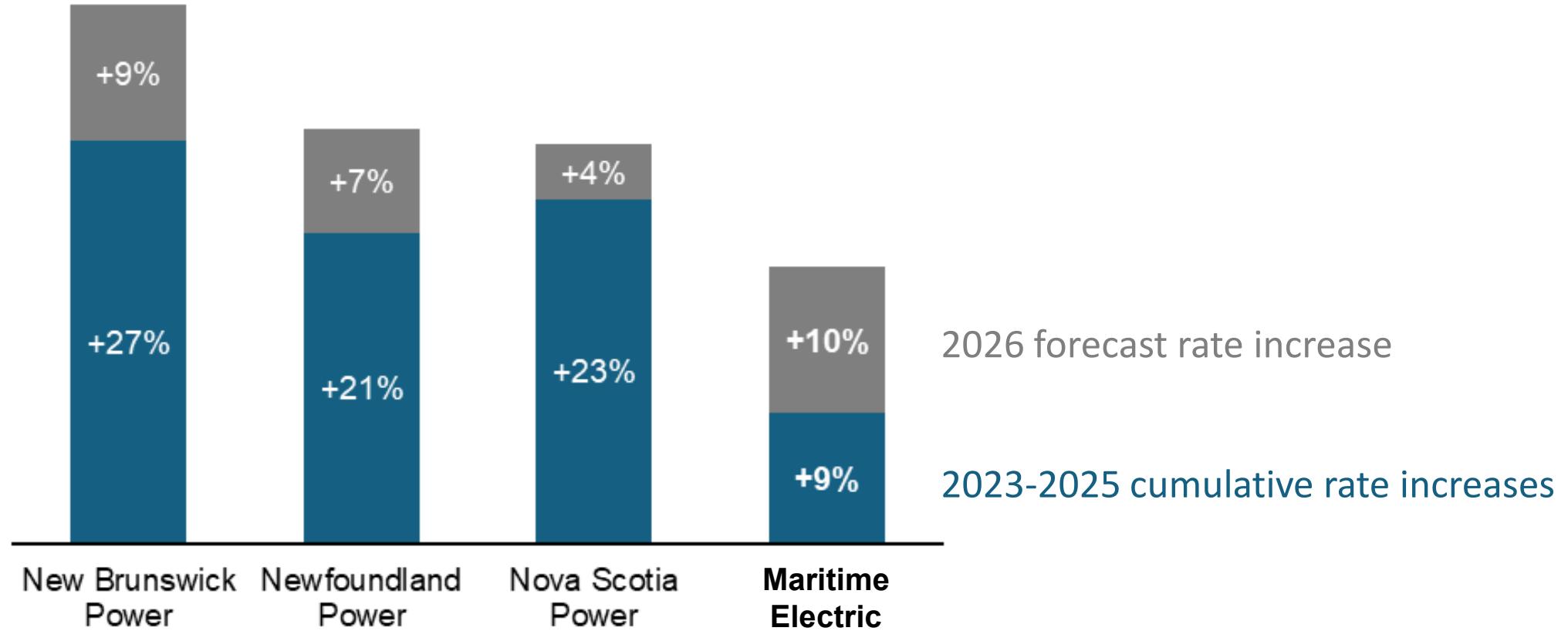
MARITIME  
**ELECTRIC**  
A FORTIS COMPANY



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# Electricity Rates are Increasing in the Region



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# 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



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# 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



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# Closing Remarks



All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

# THANK YOU

All our energy.  
All the time.

MARITIME  
**ELECTRIC**  
A FORTIS COMPANY

