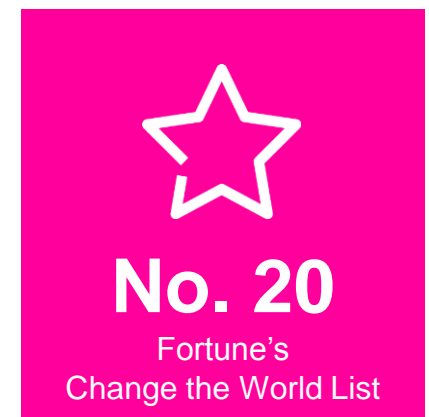


Enel X Recommendations to the Commission To Study the Economic, Environmental and Energy Benefits of Energy Storage to the Maine Electricity Industry

11/19/19

The Enel Group

A multinational power company and leading integrated player in the world's power and gas markets



We are a leader in the new energy world



1st **network** operator¹



World's largest private player² in **renewables**

Largest retail **customer** base worldwide¹



73 M customers¹



43 GW capacity²



46.5 GW capacity³



6.2 GW Demand Response



34 Countries, 5 continents, 69,000 Employees⁴

Only Utility on Fortunes top 50 “Companies Changing the World”

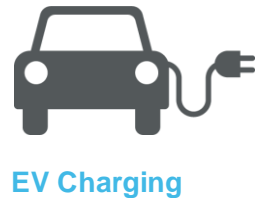
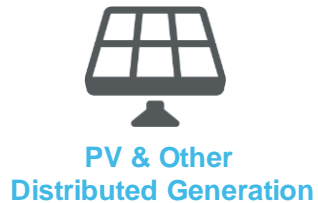
1. By number of customers. Publicly owned operators not included
2. By installed capacity. Includes managed capacity for 4.2 GW
3. It includes nuclear
4. Includes customers of free and regulated power and gas markets

Flexibility Solutions Platform

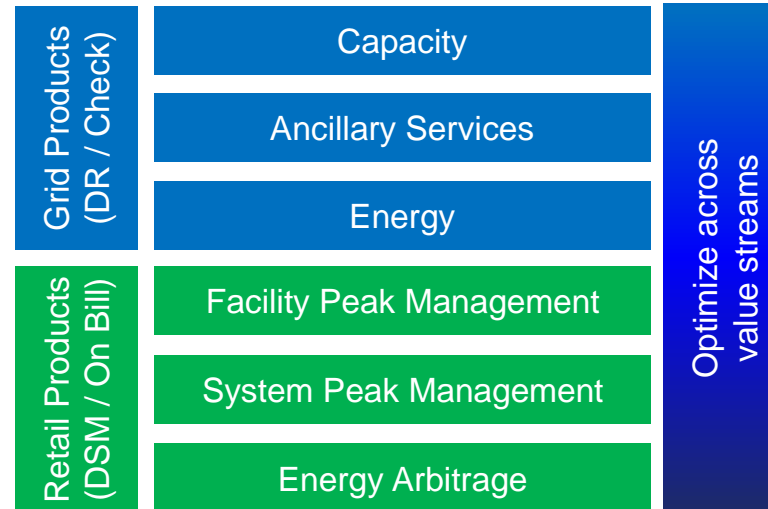
Connecting any asset to any value-stream globally



Connect all types of distributed energy assets...



... and optimize across all available grid and retail value streams



... using a flexible and scalable global “flexibility platform”



Example of Enel X Projects in New England



UMass Boston Taps Enel X for Solar Plus Storage Project

SEPTEMBER 25, 2019 BY ALYSSA DANIGELIS

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Storage can reduce customer's demand charges, participate in Eversource's peak shaving program, MA SMART, and the ISO-NE demand response program; these revenue streams are all necessary

Project also received a grant from MA Clean Energy Center

How do we stimulate storage in Maine in a way that results in all ratepayers saving money, provides large energy users (job creators) the opportunity to reduce their overall energy spend, and clean the grid?

Animating Storage in Maine

All programs can deliver net benefits if properly designed



Basic/Low Cost

Advanced/Higher Cost

Peak shaving programs for customer-sited storage

Align demand charges with cost causation

Non-Wires Solutions

State incentives

Clean Peak Standard

Create programs that compensate customer-sited storage for dispatching during the 1% of peak hours that drive 8% of costs

- Determine value of peak-time dispatch (e.g. top 100 hours)
- Compensate storage based on performance
- Similar to programs in MA, RI, CT; five-year payment reduces financing costs
- Benefits: Cost-effective, makes local businesses more competitive, reduces utility bill for cities/towns, lowers emissions

Menu of Options



Demand charges

- Demand charges can comprise ~30% of a customer bill; align these charges with cost causation

Non-Wires Solutions Programs

- Require distribution utilities to consider and procure NWS before making significant distribution/transmission upgrades; comprehensive consideration of benefits

State incentive programs

- Provide \$ for storage that meets operational requirements, both solar paired and standalone

Clean Peak Standard

- Reduces high costs incurred during peak hours and emissions

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