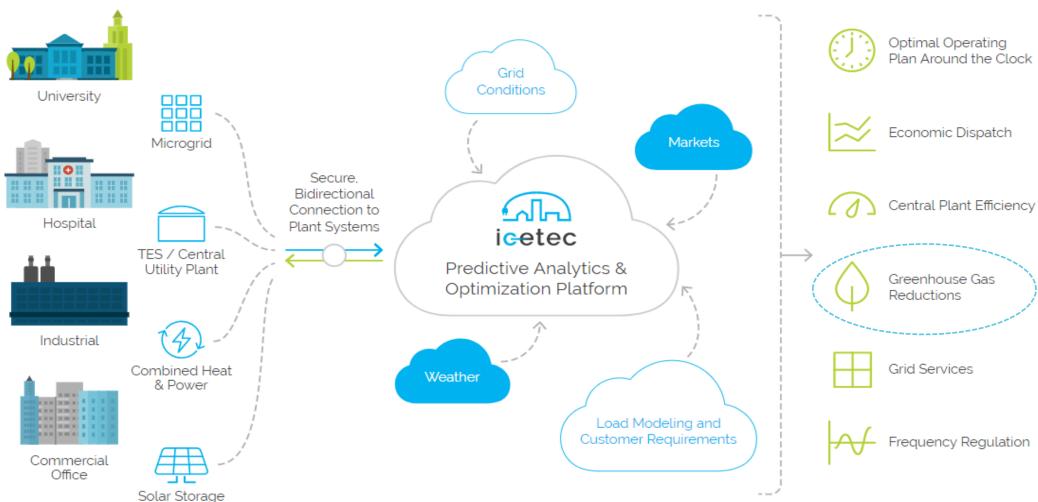




CONSUMER LIAISON GROUP THE BENEFITS OF LOAD RESPONSE March 2024 Portland, Maine

ICETEC ENERGY SERVICES





IMPORTANCE OF FLEXIBLE LOAD

- For all electric customers
 - Reduces cost of energy and capacity (quantity and price)
 - Reduces cost of transmission
 - When targeted appropriately, reduces CO2 emissions and related costs
 - Improves reliability
- For those customers who have made an investment
 - Above benefits, and
 - Can reduce retail volumetric costs if on TOU rate
 - Reduces demand charges
 - Potential program or market revenue
 - Increases resiliency
- We can and do manage load for these gains.
 We can and must do much more.



EXAMPLE: TRANSMISSION COST

- Transmission Rates already dramatic
- •\$154/kW-yr now
- Est. \$196/kW-yr in 2028[1]
- ISO-NE 2050 Transmission Study
 - •\$1.5b/GW over 51 GW peak
 - Underground line costs 4x of overhead costs
 - 1. RNS Rate Forecast Overview. Slide 3. NEPOOL RC/TC Summer Meeting. July 18, 2023. Please read disclaimers.
 - 2. RNS Rates Effective Jan 1, 2024. Weighted average of carrying costs from slides 7-8. Same meeting.

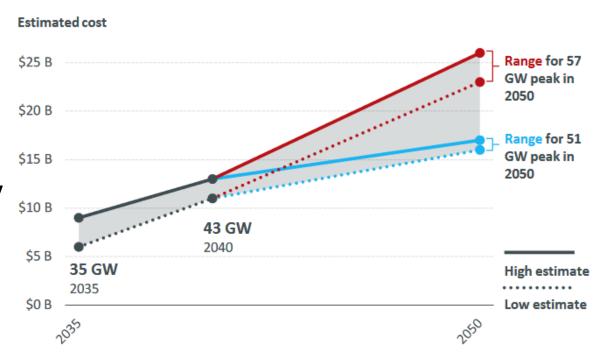


Figure 2-1: Costs by Year Studied

These are \$B in costs, locked in for 20 years, at ROR above 14% [2]



THE OPPORTUNITY: BEHIND THE METER

- Icetec provides intelligent, predictive single-source solutions and software engines to maximize Behind the Meter opportunities.
- When optimized, a multi-layered success story can be told:

Demand Management and Procurement Opportunities

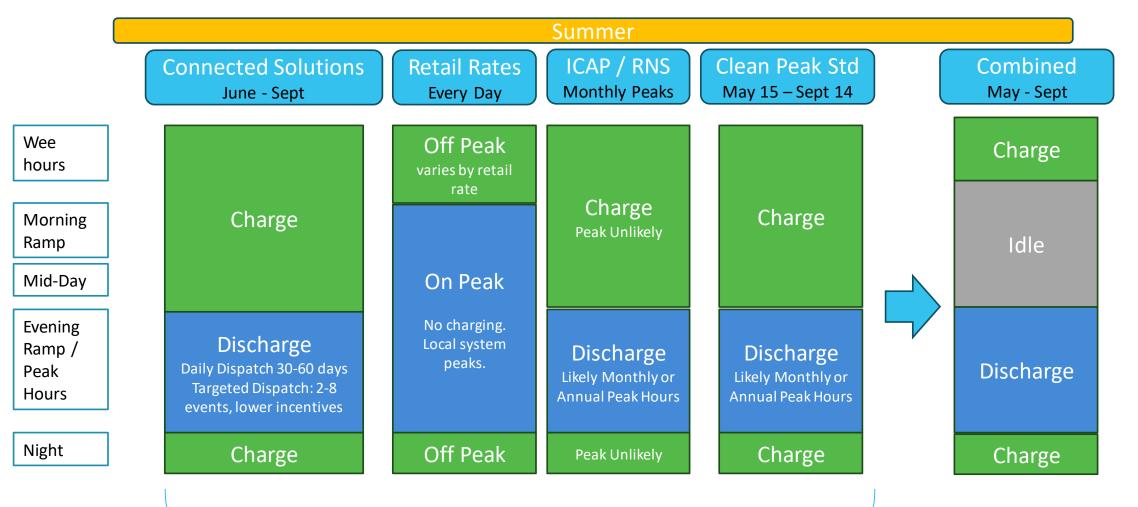
Revenue and Regional Savings

Retail cost savings

Meet campus energy goals

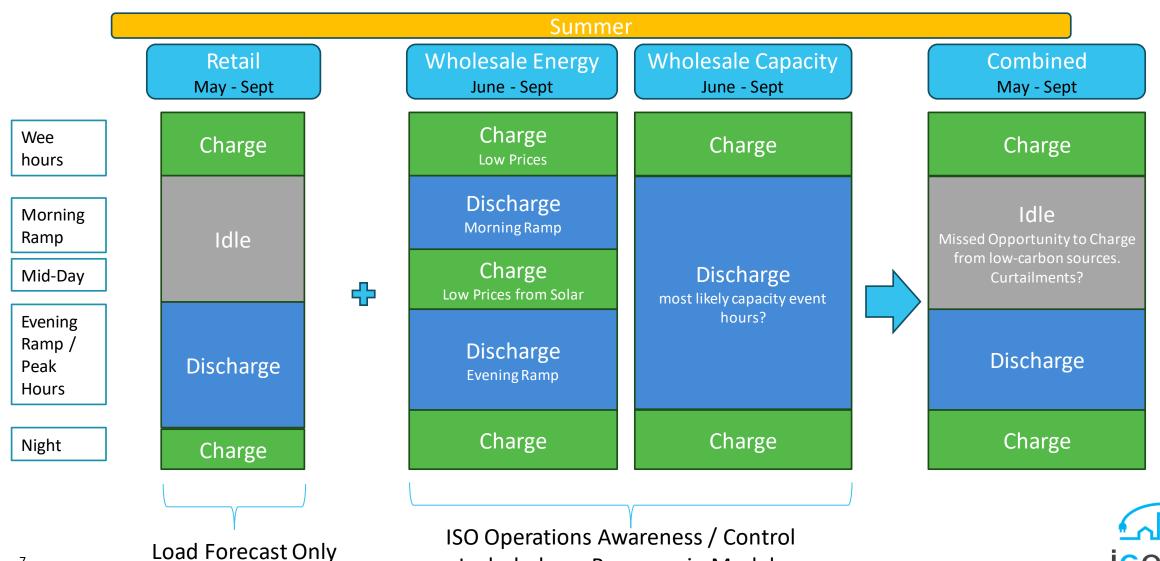


BATTERY INTEGRATION CHALLENGE - RETAIL





BATTERY INTEGRATION - WHOLESALE

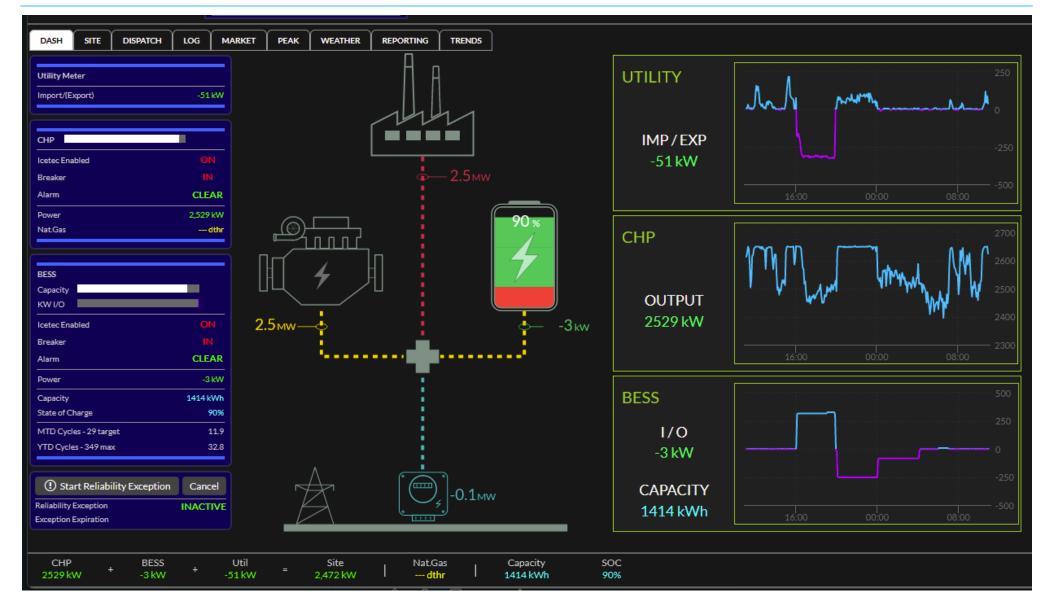


Included as a Resource in Models

PEAK REDUCTION WITH MARKETS



FULL SITE INTEGRATION





CHALLENGE OF FERC ORDER 2222

- FERC Order requiring all DERs technically capable to be allowed into all markets
- Compliance to date will not achieve any participation. An opportunity wasted.
 Infeasible solutions.
- Focus of ISO-NE and Host Utilities is misdirected. Latest compliance filing would require years of contract negotiations and registration as a Load Serving Entity.
 Remaining hope is that we continue to address workable solutions.
- Customers and aggregators need to be able to meter at the device level, not at the POI.
- Distorted accusations of double payment waste valuable time and prevent investment that will benefit all customers, even those cannot or choose not to invest.





Doug Hurley
Icetec Energy Services
Doug.Hurley@
IcetecEnergyServices.com

THANK YOU