

PACKAGED CHP PROGRAMS AND NON-WIRES SOLUTIONS



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ERS



NEW YORK
STATE OF
OPPORTUNITY™

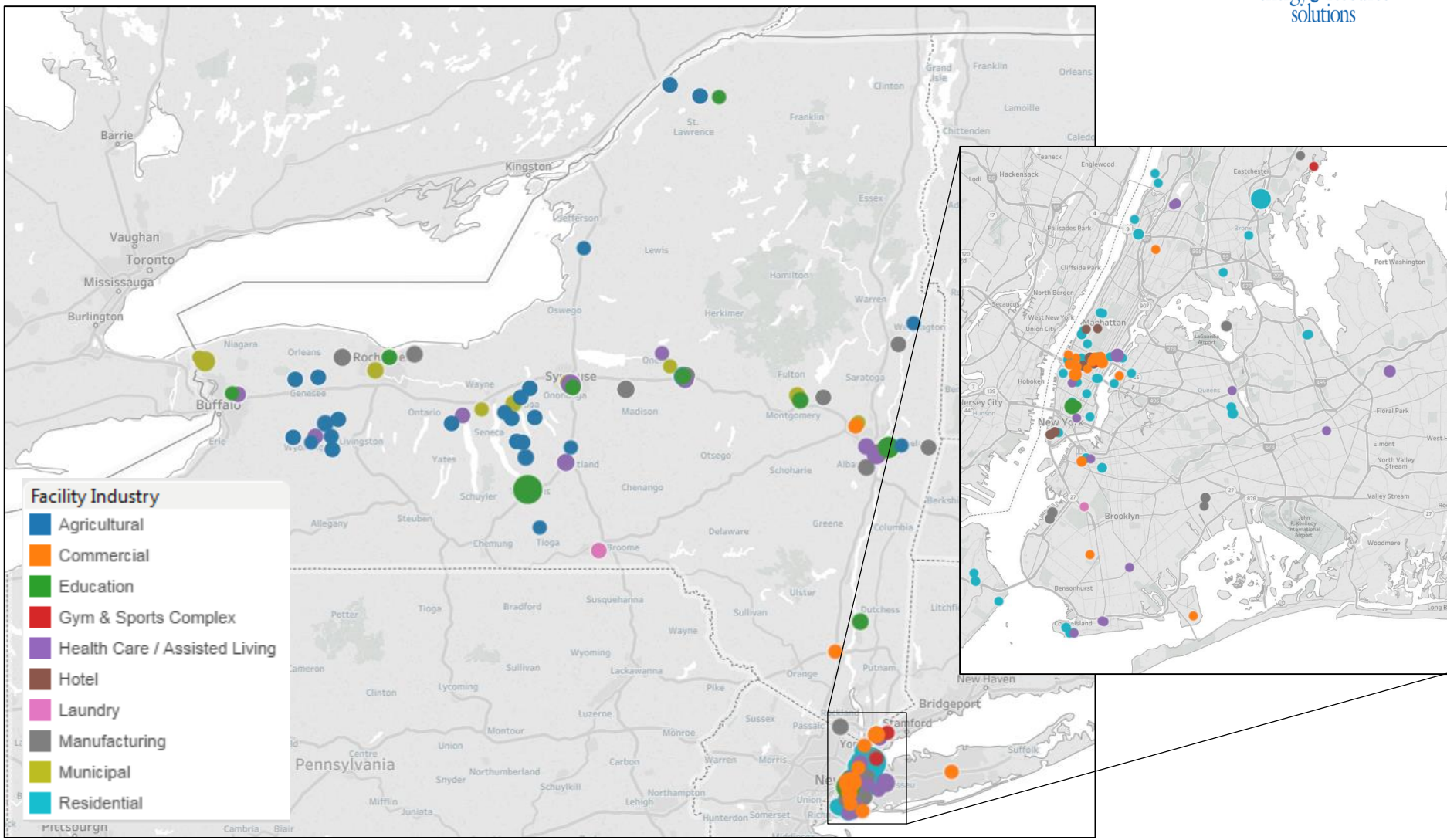
NYSERDA
Supported

CHP VALUE PROPOSITION



- ❑ Saves money on energy bills – requires less fuel to produce the heat and electricity
- ❑ Provides reliable power during outages
- ❑ Enables “shelter in place” during emergencies
- ❑ Reduces overall carbon footprint

CHP IN NEW YORK



NEW YORK MARKET TRENDS



- ❑ Transition from large industrial users to smaller facilities
- ❑ Multifamily, hotels, etc., gaining traction
- ❑ Smaller, packaged systems filling this niche
- ❑ Benefits include energy cost savings, enhanced resiliency, and system-wide GHG emissions reductions

NYSERDA's CHP PROGRAM



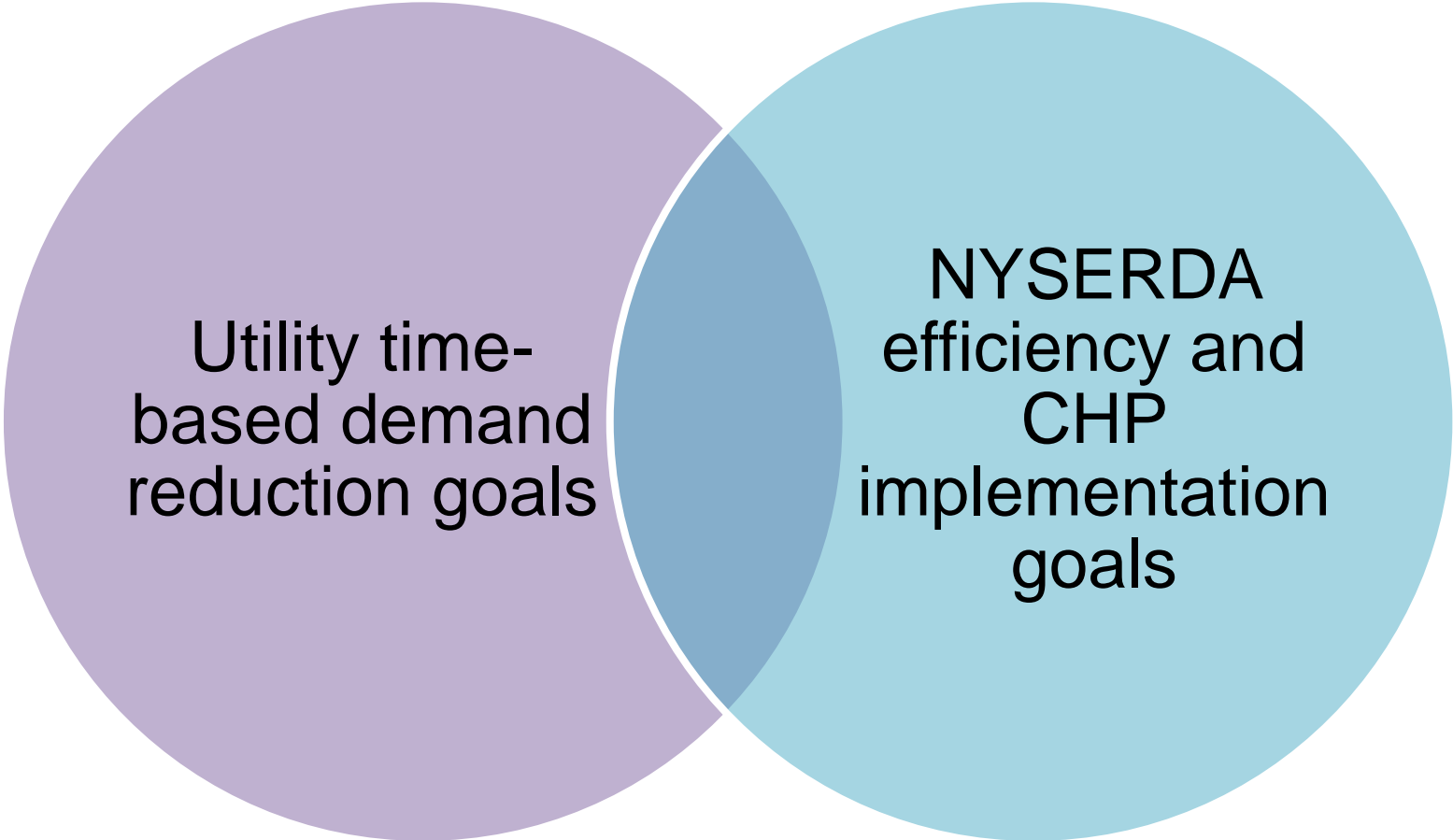
- ❑ Pre-qualified CHP program for systems up to 3 MW
- ❑ Custom engineered option for systems between 1 MW and 3 MW
- ❑ Financial incentives – up to \$2.5M/project
 - Vendor is single point of responsibility
 - Vendor applies for incentive
 - Incentive goes to vendor
 - Bonus incentives available
 - Glide path for incentive reduction

CHP IN CON EDISON BQDM

- ❑ Non-wires solutions neighborhood program
- ❑ Using efficiency and DERs to meet growing demand for electricity and for T&D upgrade deferral
- ❑ Demand reduction window: noon to midnight
- ❑ Leveraging existing NYSERDA programs



OVERLAPPING GOALS



Utility time-
based demand
reduction goals

NYSEERDA
efficiency and
CHP
implementation
goals

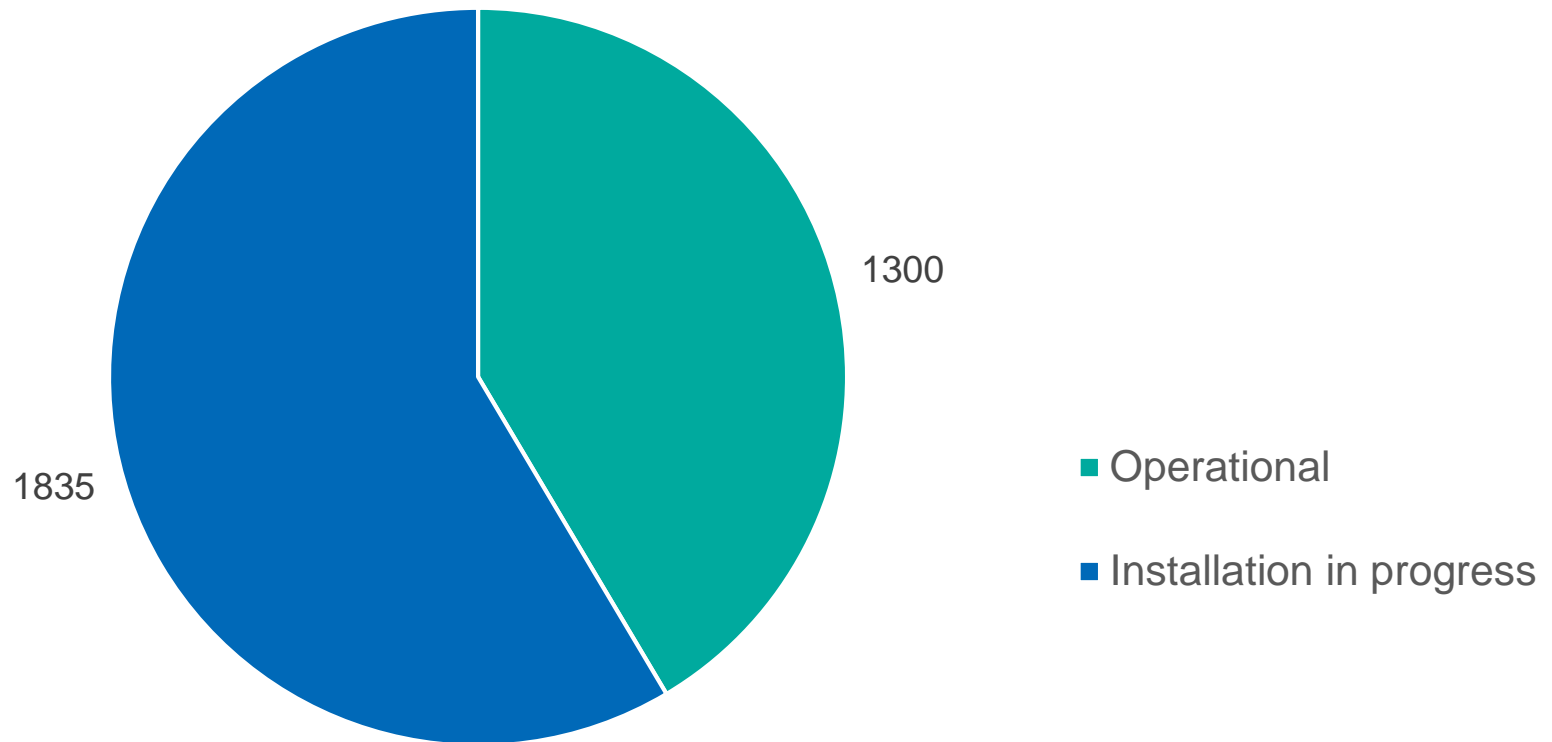
INCENTIVE STRUCTURE



	NYSERDA	Con Edison
NYSERDA application completed	33%	33%
System fully installed by pre-established deadline	33%	33%
System fully commissioned and operational by pre-established deadline	33%	
Performance during summer night		33%

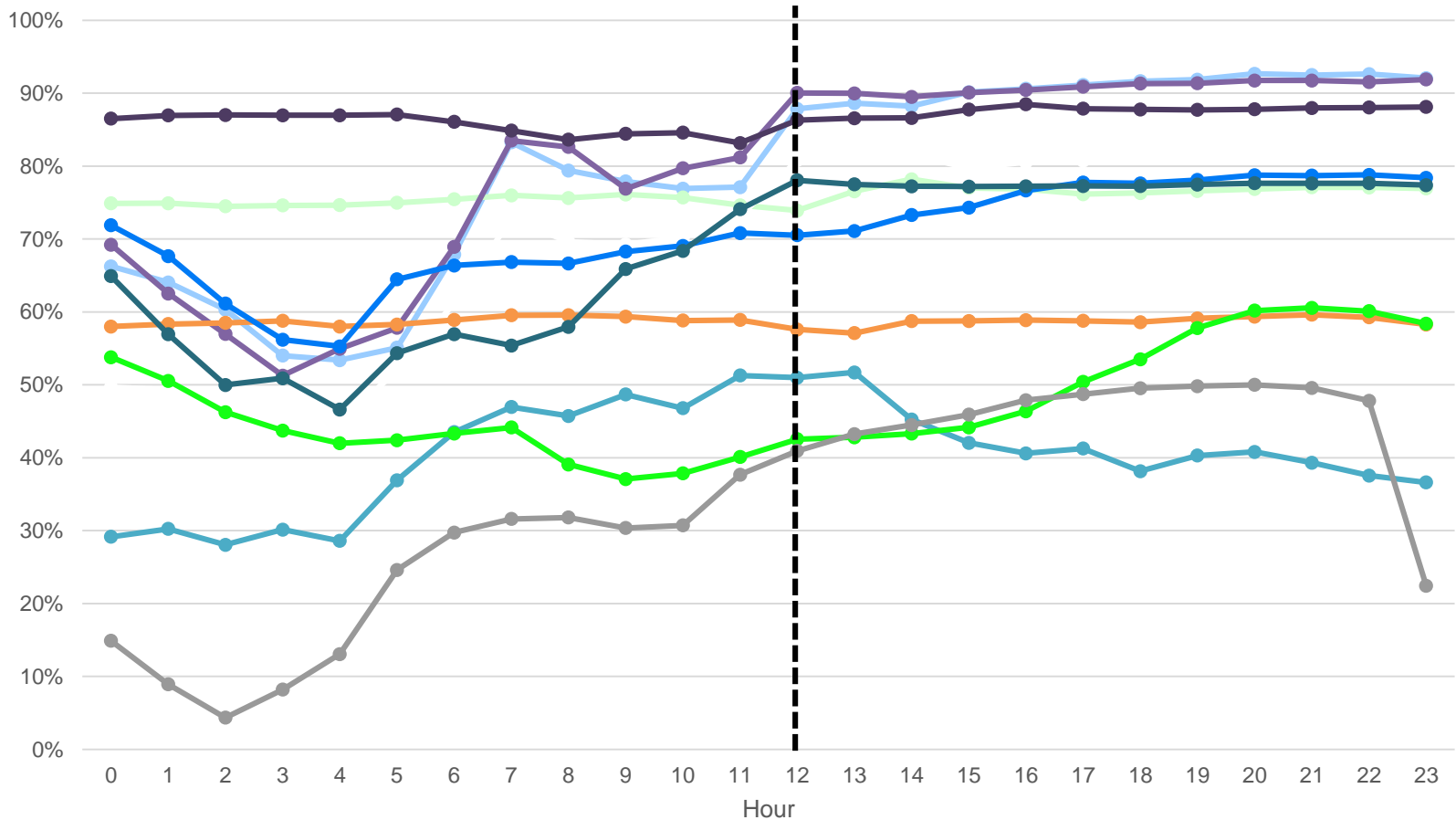
CHP IN CON EDISON BQDM

17 projects planned, 11 installed, 3.1 MW



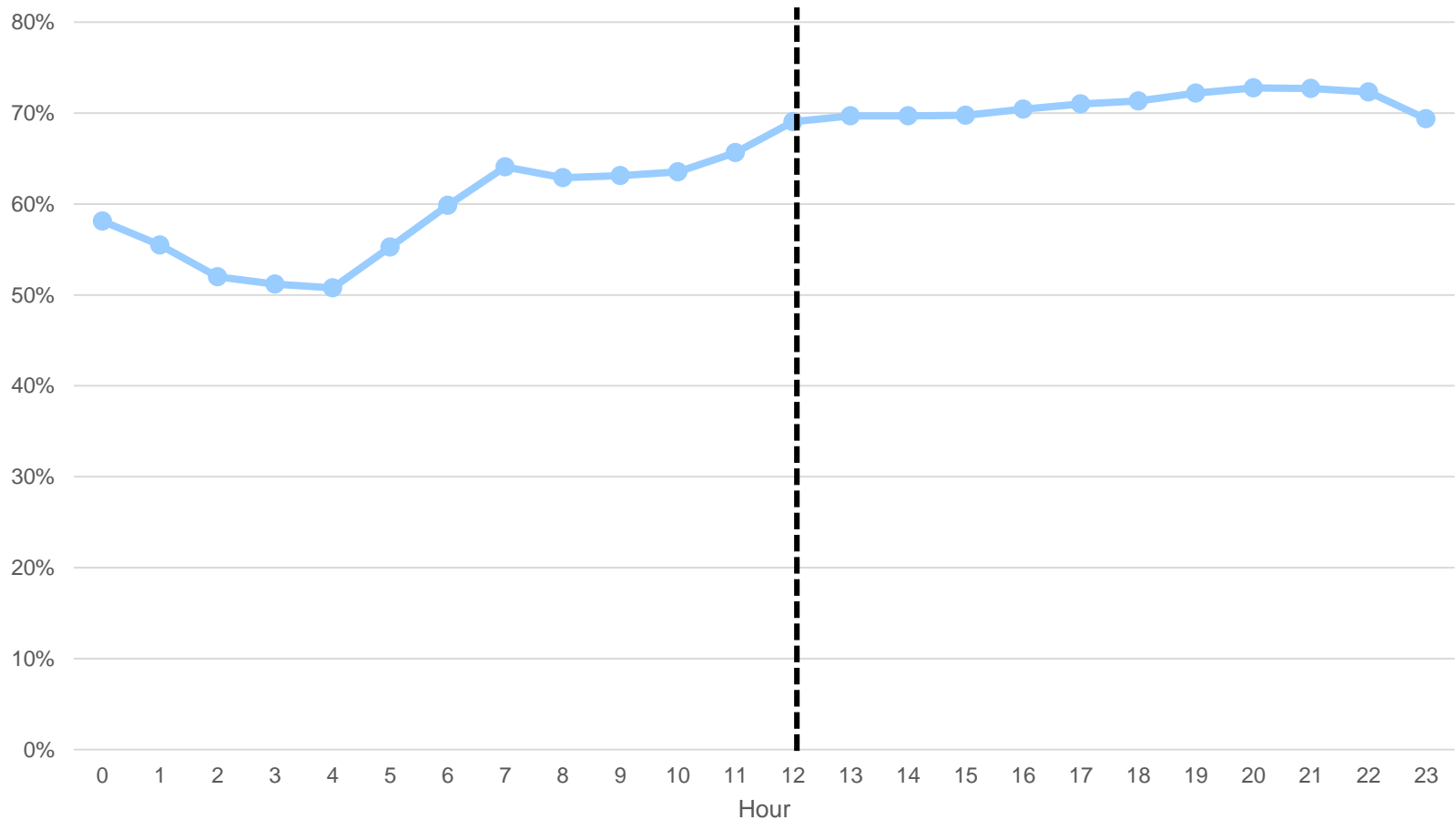
CHP IN CON EDISON BQDM

Net Electric Capacity Factor by Hour



CHP IN CON EDISON BQDM

Overall Electric Capacity Factor



LESSONS LEARNED

- ❑ Importance of comprehensive preliminary screening
- ❑ Customer expectations
- ❑ System sizing to meet differing goals
- ❑ Collaborative approach between government and utility
- ❑ Scalable?

CONTACTS



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