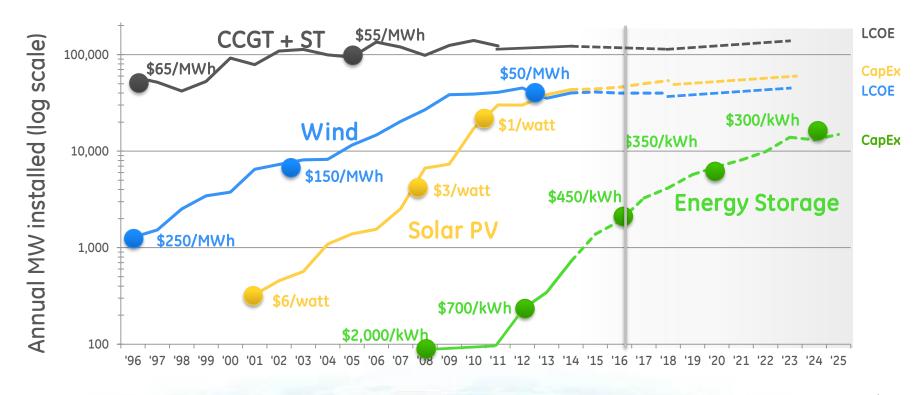


# Energy Storage growth has precedent in wind & solar

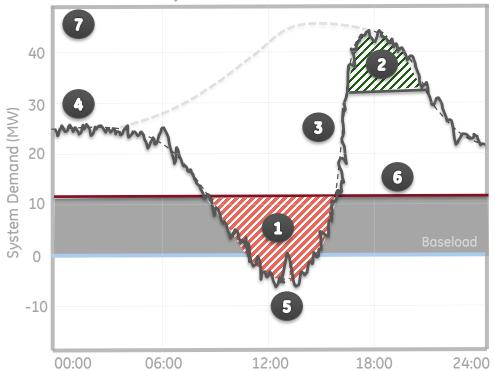


Sources: EIA, IEA, NREL, GWEC, EPIA, BNEF, Lux, Navigant, HIS CERA, GE Analysis Solar: PV panel cost

From 2010 to 2020 marks *a 40X improvement* in overall ES viability

# Energy Storage is a unique asset that provides unprecedented flexibility in grid optimization.



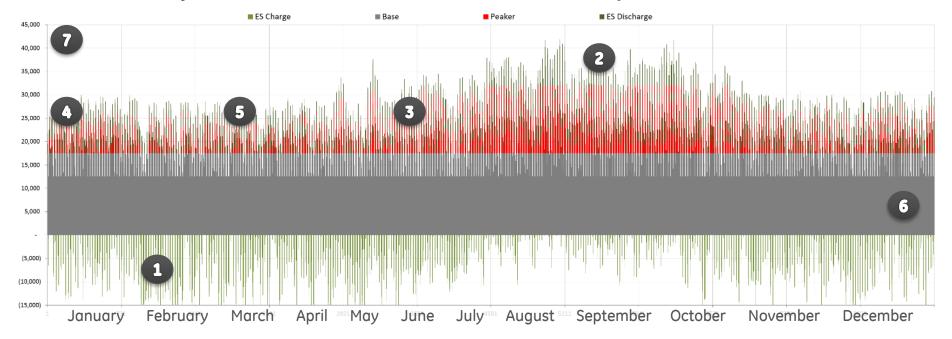


- 1 Curtailed Renewables
  Baseload causes excess solar to be curtailed
- 2 Peak Load
  Short duration peaks after sunset
- Fast Ramping
  Respond to sunset dynamics
- Frequency Regulation
  Real-time frequency control
- 5 Spinning Reserve
  Dynamic response to events (clouds)
- 6 Maximize Baseload
  Enables high capacity factor baseload
- Reduce Emissions
  From peak capacity and ancillary services

ES provides instantaneous local capacity, & continuous ancillary services with no fuel consumption or emissions.



# ES provides instantaneous local capacity, & continuous ancillary services with *no fuel consumption or emissions*.



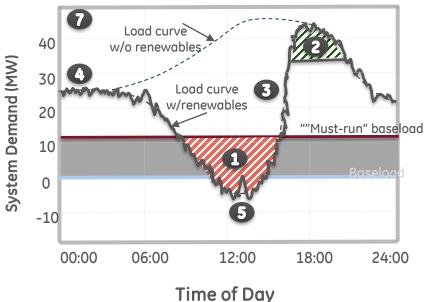
- Curtailed Renewables
  Additional clean energy into system
- Peak Load
  Reduction in conventional "peakers"
- Fast Ramping
  Enables dynamic capacity

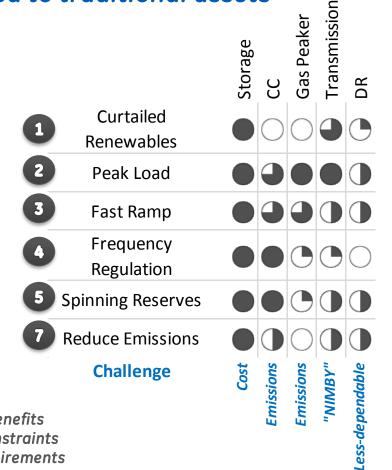
- Frequency Regulation
  Provides 100% of FR with no emissions or constraints
- 5 Spinning Reserve
  Provides 100% of SR with no emissions or constraints
- 6 Maximize Baseload
  Enables high capacity factor of baseload generation
- Reduce Emissions
  From peak capacity and ancillary services



#### Why Battery ES?... flexible compared to traditional assets







- + locational grid benefits
- + no air quality constraints
- + no local fuel requirements
- + defer wires investment
- + modular & movable
- + quick to deploy (6mo to COD)

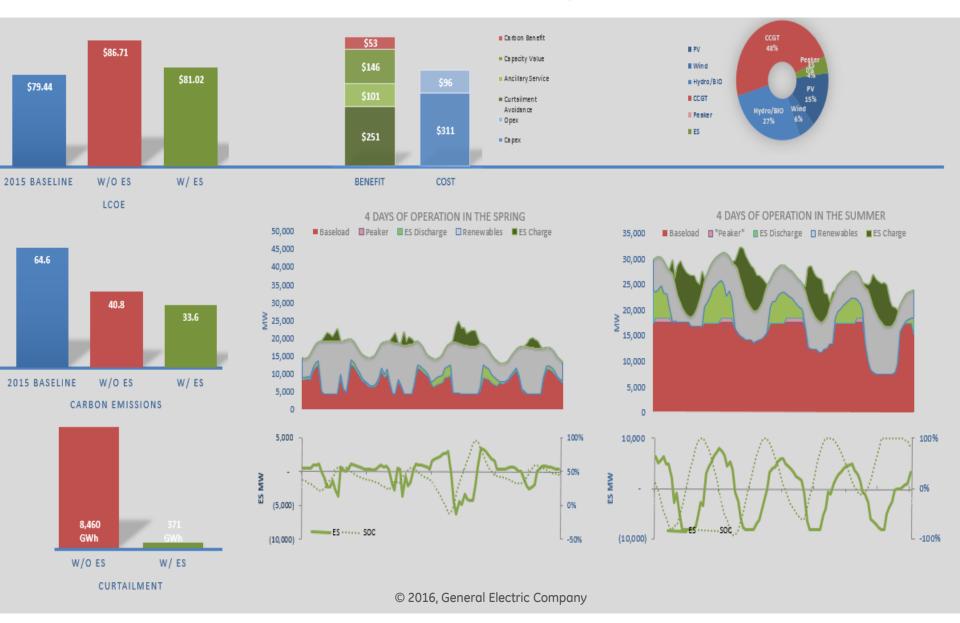
Energy Storage flexibility allows optimization of all system assets



#### Scenario: NYISO at 50% Renewables w/4GW ES

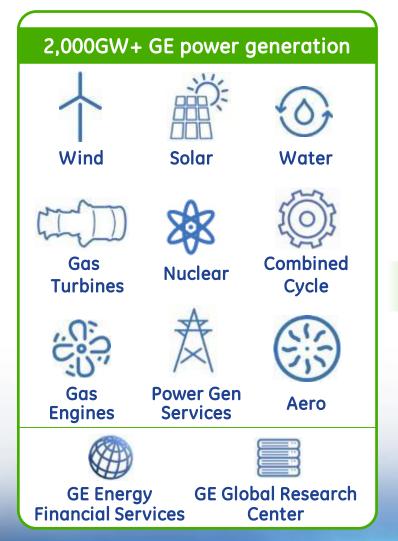


### NYISO at 50% Renewables w/8GW ES





## Bringing the strengths of GE to Energy Storage

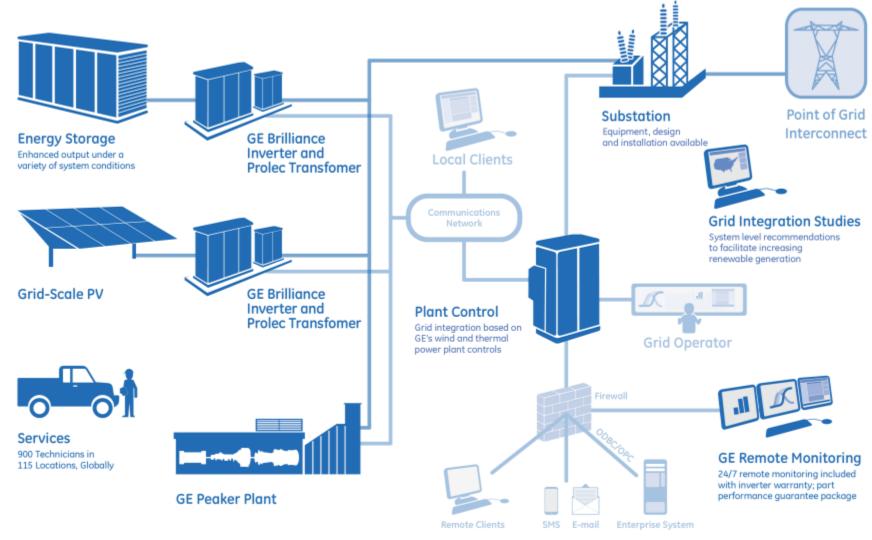


#### **GE Energy Storage**

- ✓ GE Store
- ✓ Broad, diversified portfolio
- ✓ Long-term, valued brand
- ✓ Stable & reliable partner

100+ years powering the world ... optimizing our future with energy storage

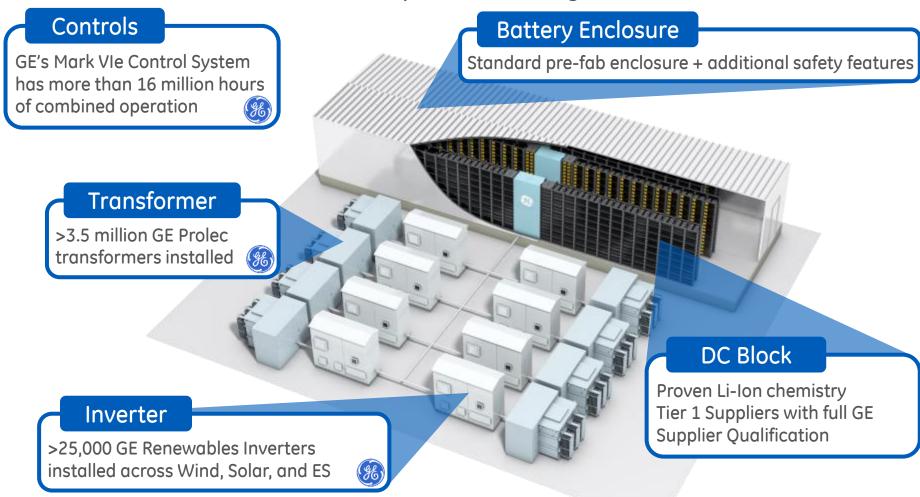
## GE's Advantage... integrated solutions





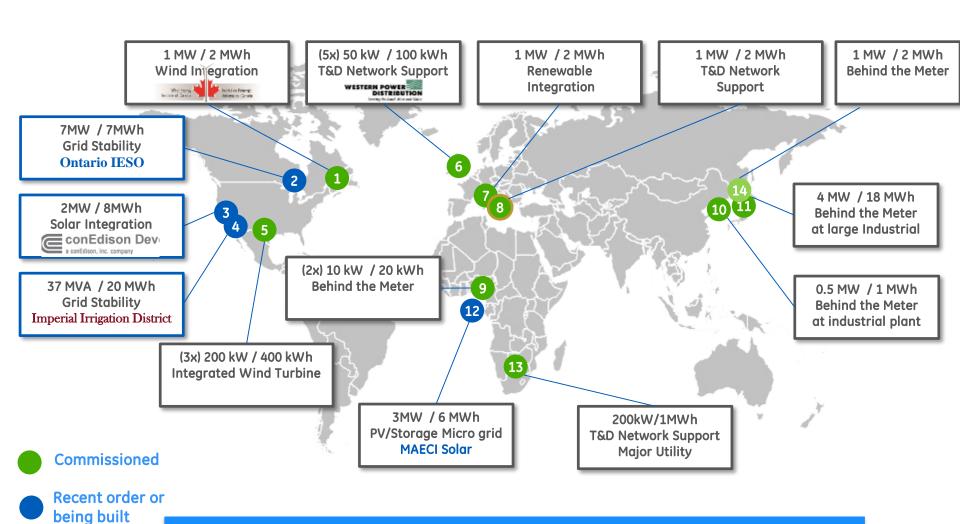
#### MW Class ES Platform

Custom solutions from standard, proven building blocks





# GE Energy Storage Grid Projects



(gg)

~ 60 MW / ~65 MWh of Grid projects Installed or in Process