#### 

# Aurora Modeling Overview: Dispatch

September 2024

# **Additional Details**

#### 

#### idahopower.com/irp

#### Our 20-Year Plan

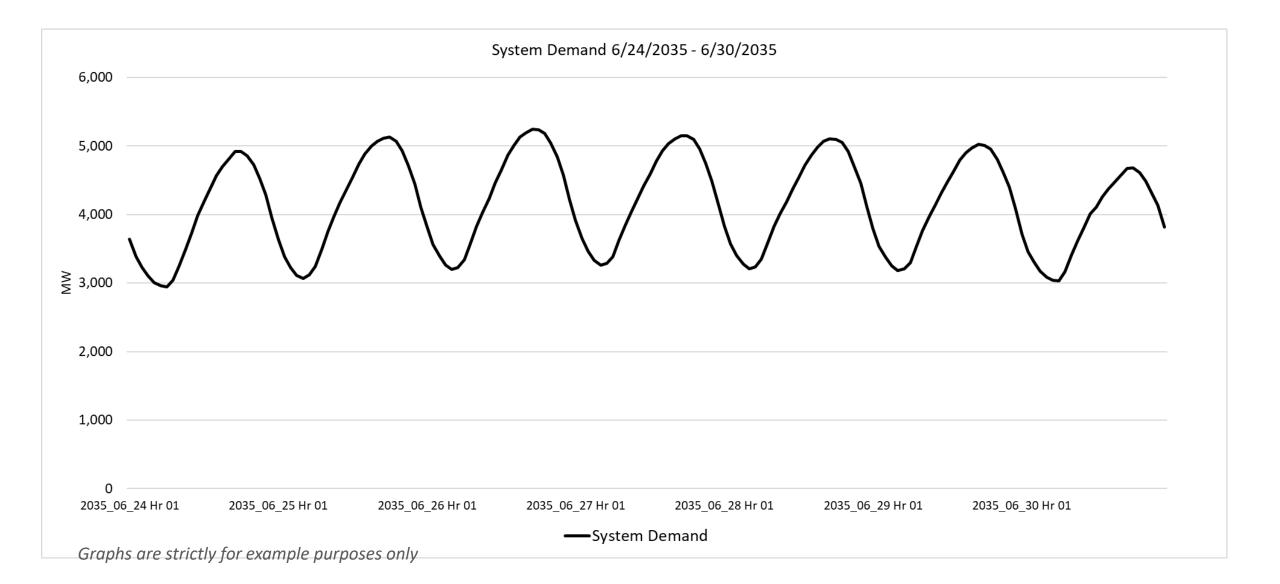
Home > Energy and the Environment > Energy

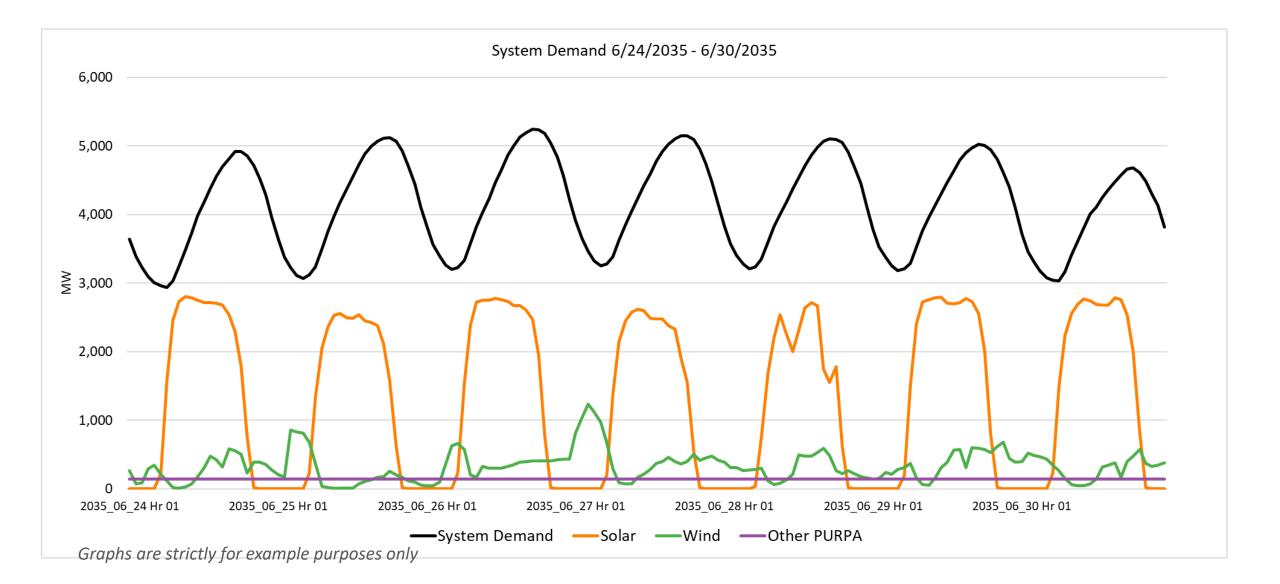
Current Projects		ldahc
Oregon Distribution System Plan		comp
Our 20-Year Plan		best i
IRP Questions and Responses		plan i
Educational Resources		proce
Regional Electrical Plans		Idahc
Huston to Gem		the Ir

# Video: AURORA Model Overview 🔑 PDF version

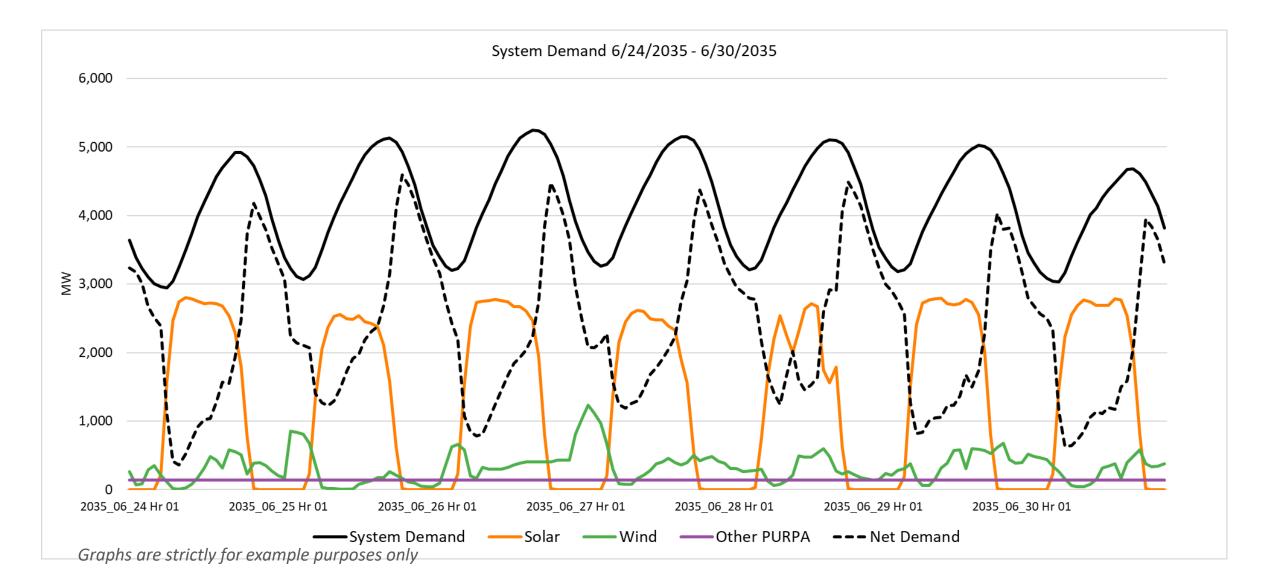
#### **AURORA** Overview



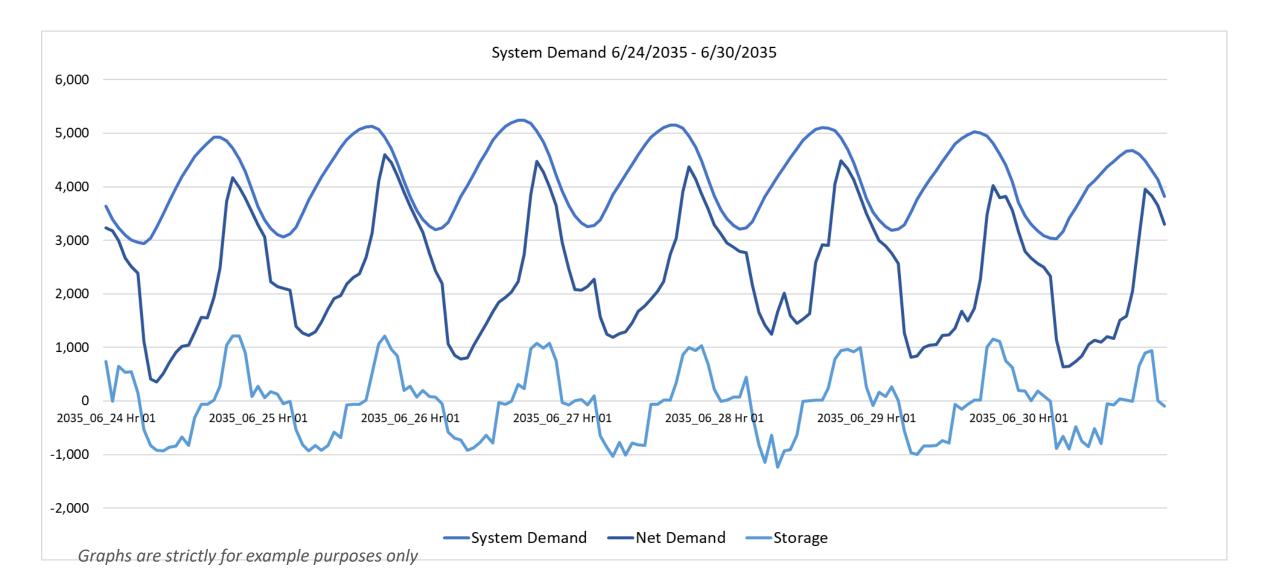


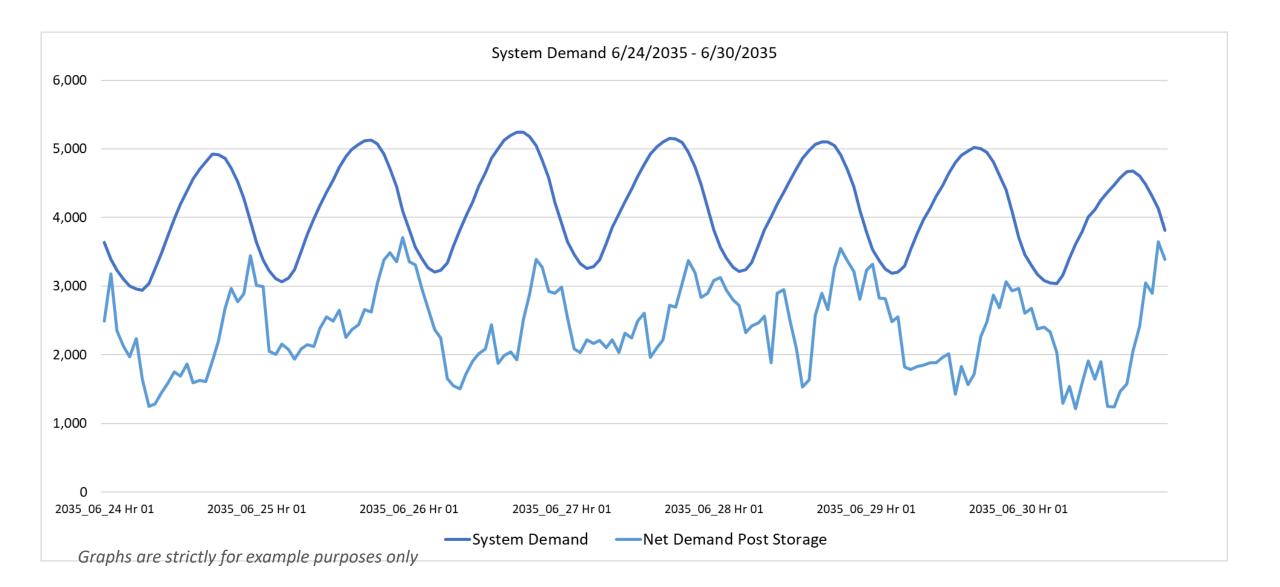


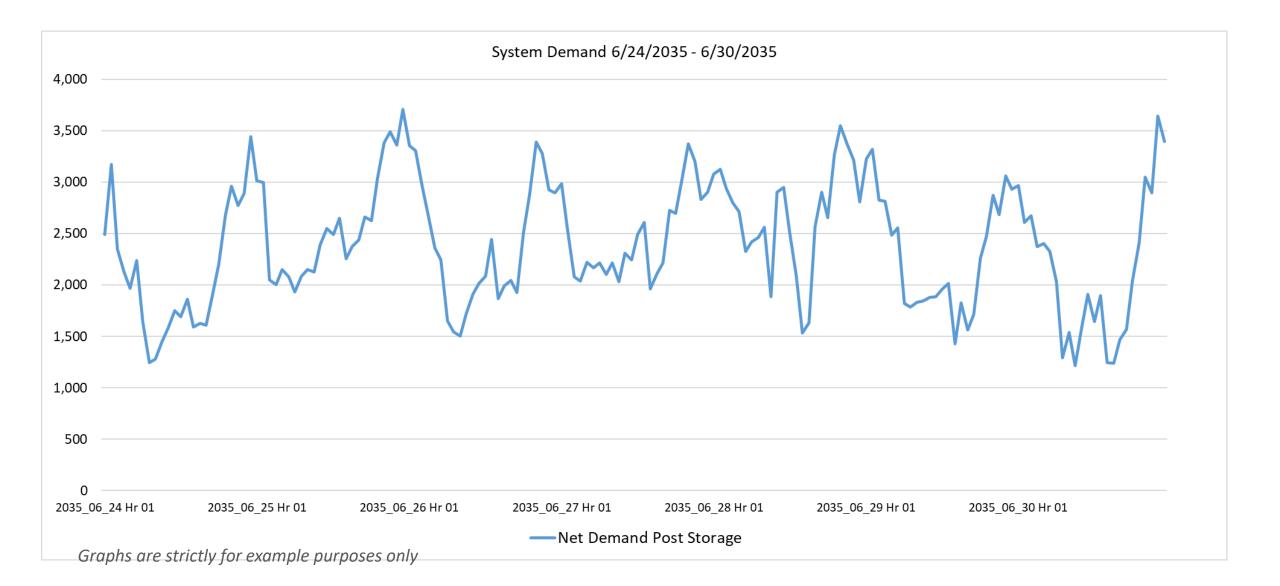
**CONTRACTOR OF CONTRACTOR OF C** 

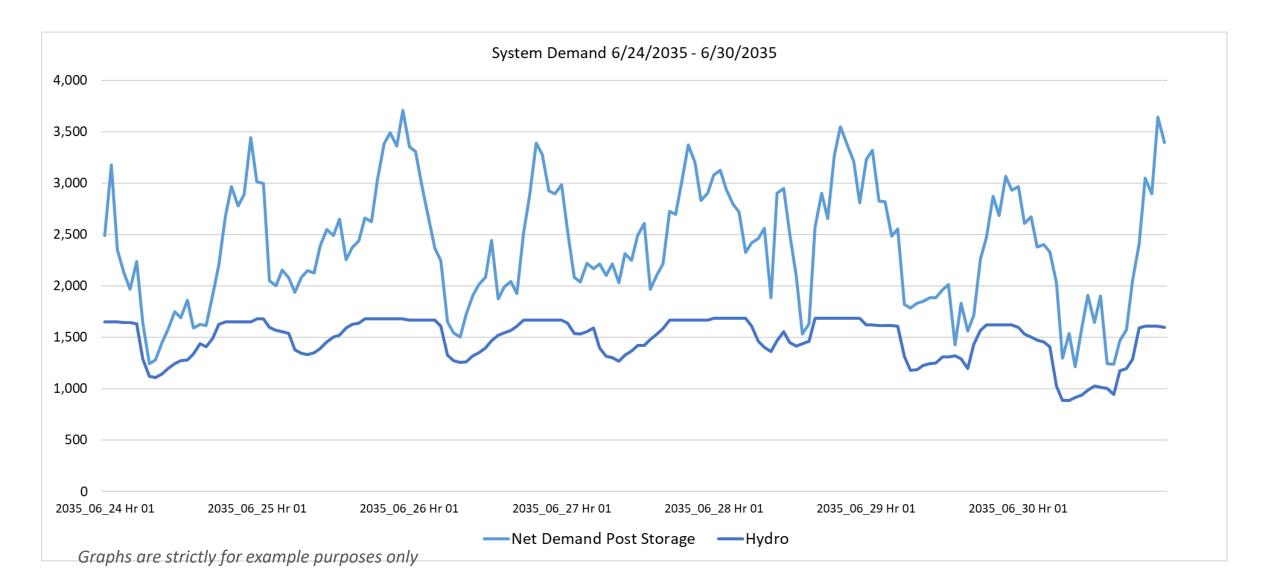


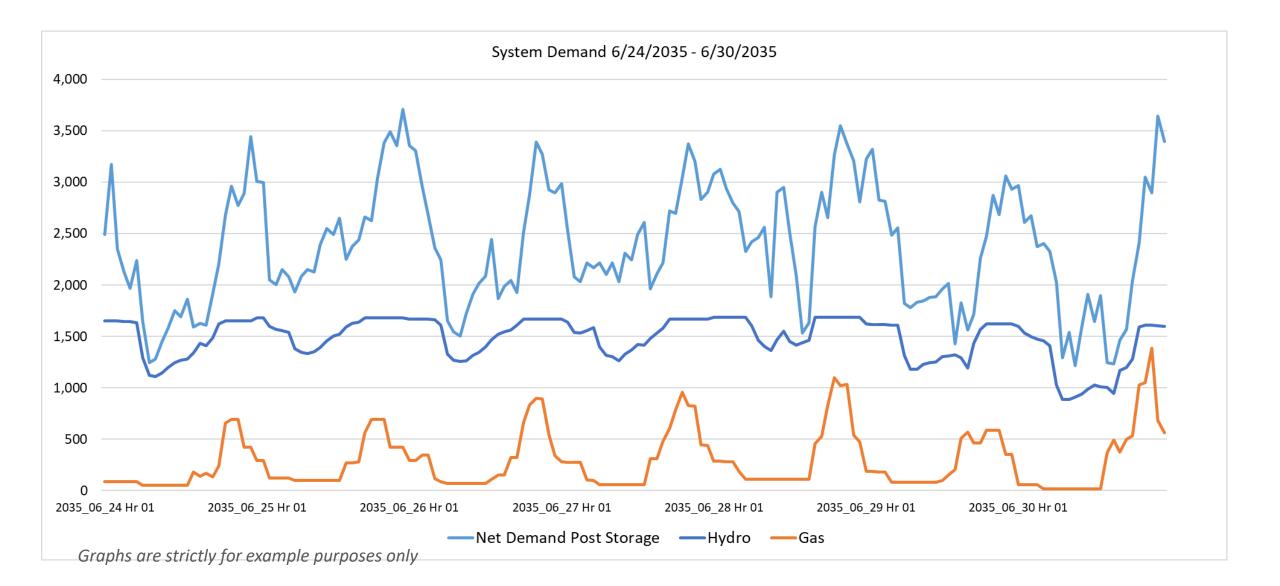
**CONTRACTOR OF CONTRACTOR OF C** 

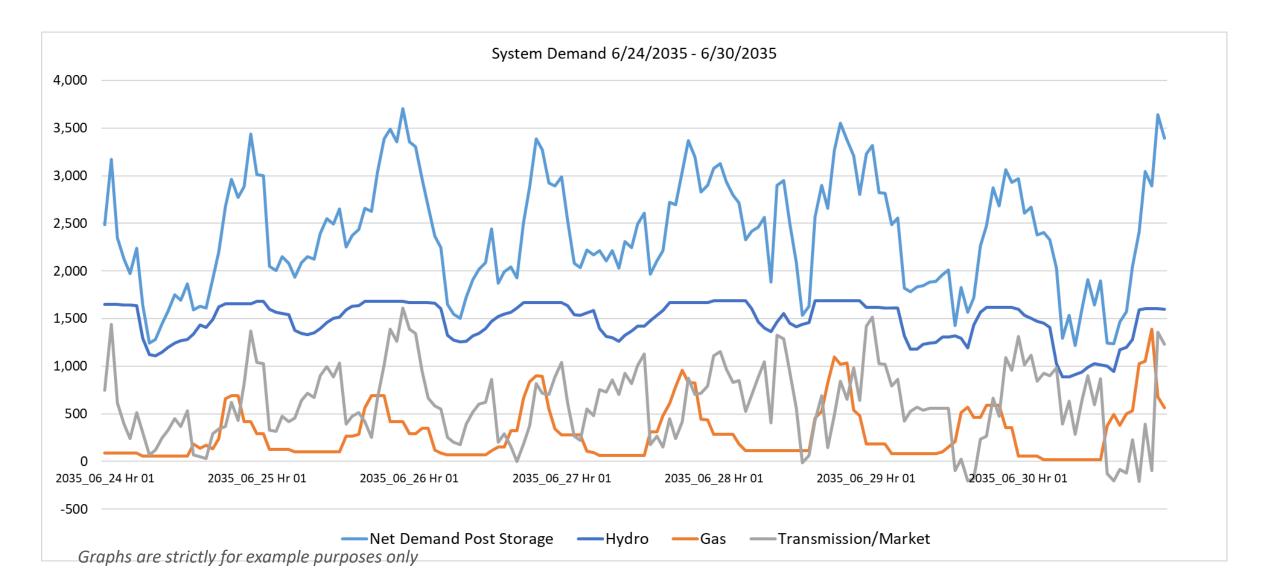




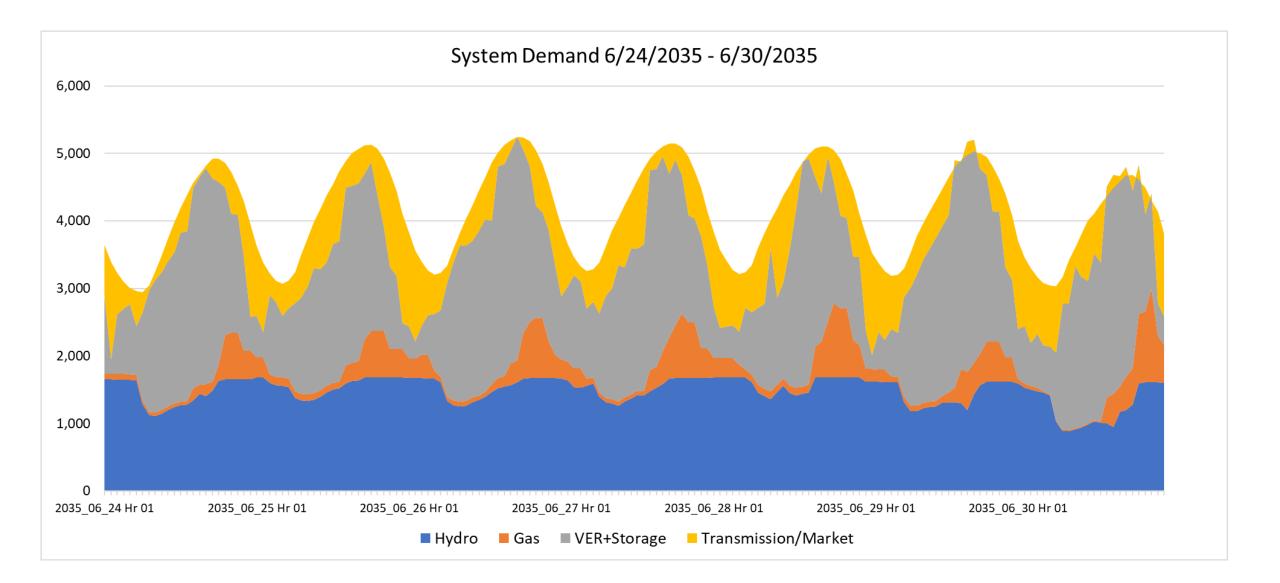








**CONTRACTOR OF CONTRACTOR OF C** 

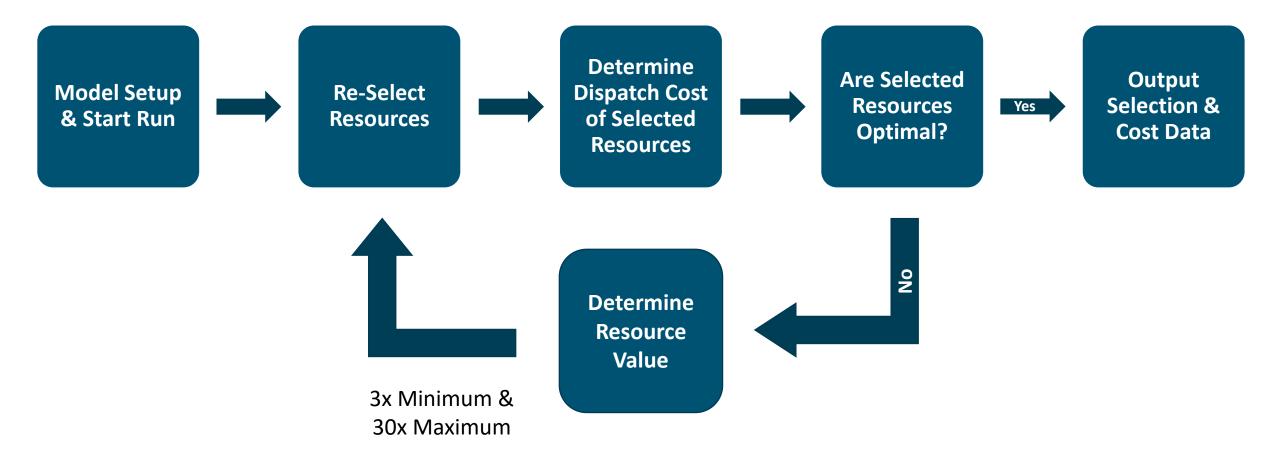


#### 

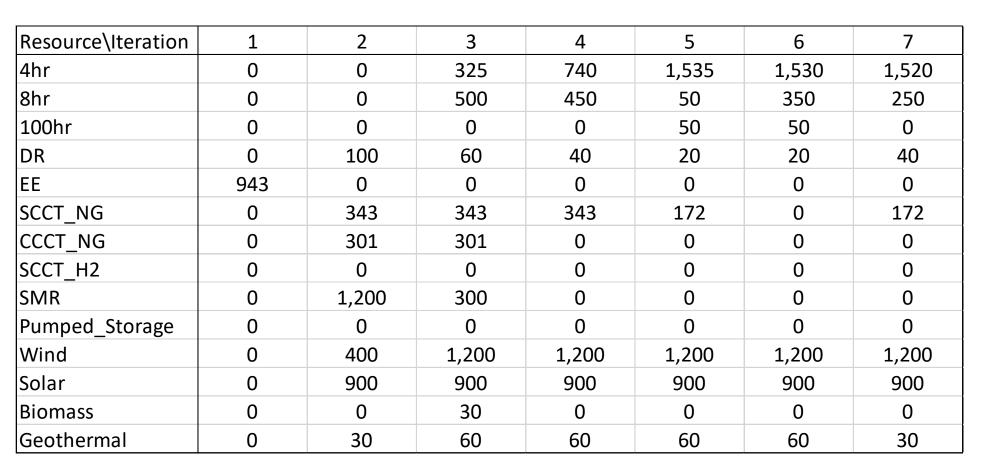
#### Aurora Modeling Overview: Long Term Capacity Expansion (LTCE)

September 2024

**Aurora LTCE Flow** 



#### What Does this Look Like in Practice?



Numbers in table are strictly for example purposes only & not representative of any particular portfolio

#### What is Aurora Optimizing in English?

#### 

#### Minimizing System Cost on an NPV Basis

- Generation
  - Fixed Costs
  - Dispatch Cost
    - ✓Variable O&M
    - ✓Fuel
    - ✓ Starts
    - ✓ Storage Round Trip Losses
- Transmission
  - Wheeling & Losses
  - Fixed Costs

#### Subject to the Following Constraints

- Load = (Generation Losses) in All Hours
- Generator Characteristics
  - Min/Max Capacity, Flexibility, Forced Outage, Fuel Limits, Emissions, etc.
- Transmission Capacities
- Reliability & Ancillary Services
- Resource Selection Limits