Enhance Your Solutions with Energy Exemplar Datasets

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Energy
Exemplar

Energy Exemplar APAC Datasets

USE CASES FOR DATASETS

- Long term investment planning
- Economic dispatch and unit commitment
- Renewable energy integration with hydropower & other storage
- Maintenance and outage simulation
- Capacity expansion and upgrade
- Fuel contract (e.g., take or pay) and emissions
- Market sensitivities
- Impact of fuel price changes
- Generation by fuel type
- Asset Capacity factors
- Policy and Regulatory impact
- Renewable penetration

- For Bid-Based Models:
  - Customer can quickly plug own demand and bid assumptions
  - Appropriate for short-term price forecast
  - Test market price elasticity
  - Capture locational prices (Philippines and New Zealand)

Country-specific Datasets

Australia NEM (2021)

- Full list of generation, nodes & companies operating
- Solar & Wind ratings included
- One region and node for 5 regions
- New developments & ratings for existing generation for ten years
- Includes offer quantities & bids for generators (as published by AEMO)
- Renewables modelled to prevent unrealistically high dispatch
- Transmission limits modelled as per physical & system operator constraints
- Bid-based model

Australia WEM

- One region, 11 zones, 11 Nodes with 10 lines
- Load forecasting, generation profiles & maintenance, outage rates available
- All companies operating modelled
- Bid-based model

Japan

- Snapshot dataset updated as of 2020, with next update with FY2020 coming 6/2021
- Provides generation & associated fuel prices
- 10 regions for each grid zone, with modelled interconnects
- Bid based/Cost based dataset

Philippines

- 3 Regions (for each island group), 9 zones with 622 nodes
- Load forecasting, generation profiles & maintenance, outage rates available
- Full list of generation, nodes & companies operating
- Transmission & generation lines
- Bid-based model

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Country-specific Datasets

South Korea

- Snapshot dataset (no future generation or demand)
- Solar and Wind ratings included
- Provides generation and associated fuel prices
- Single region and node for the area
- Bid based/Cost based dataset

New Zealand

- Bid based, three regions/three nodes with one node for each region
- Load forecasting, generation profiles and maintenance and outage rates available
- Offer limits implemented
- 40 years build-out

Singapore

- Full list of generation, nodes and companies operating
- Solar and Wind ratings included
- Single generation and demand node
- Cost-based dataset
- Bid based/Cost based dataset

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Energy Exemplar Global Datasets

PLEXOS

- North America - WECC Zonal
- North America - WECC Nodal
- North America - EI Zonal
- North America - EI Nodal
- North America - ERCOT Zonal
- North America - ERCOT Nodal
- Latin America - Mexico
- Latin America - Peru
- EMEA - C&W Europe
- EMEA - Great Britain
- EMEA - Iberia
- EMEA - Eastern Europe
- EMEA - Southeast Europe

AURORA

- North America - WECC Zonal
- North America - WECC Nodal
- North America - EI Zonal
- North America - EI Nodal
- North America - ERCOT Zonal
- North America - ERCOT Nodal

For more information, visit us at
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