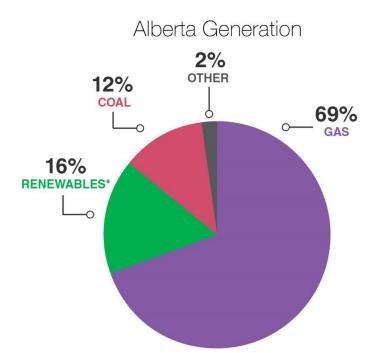
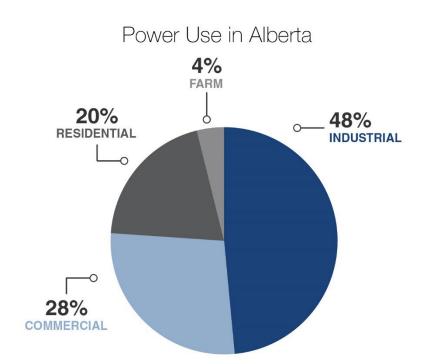




Alberta Power Overview







Source: AESO Annual Market Statistics Datafile (data as of Dec 31, 2023)

*Renewables include wind, solar and hydro.

Source: Monthly Sales History 2022 (www.auc.ab.ca/annual-electricity data/)

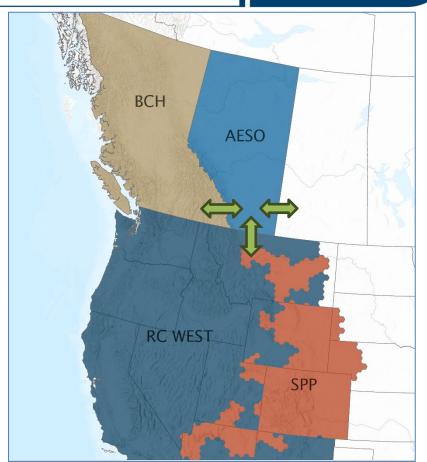


3 Interconnections



> 800 MW AC tie west to BC

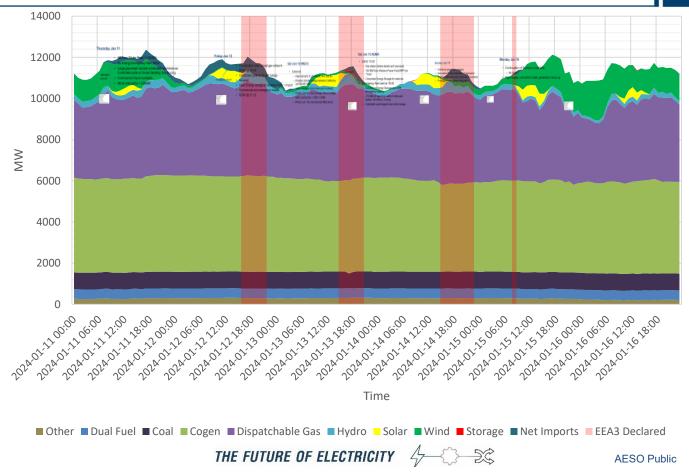
- > 300 MW AC tie south to Montana
- > 153 MW DC tie east to Saskatchewan



Timeline

Supply





Thursday Jan 11



- All-Time Winter Peak 12,384MW
- No Energy Emergency Alert (EEA)
- Large gas-steam turbine scheduled maintenance;
 Combined-cycle on forced derating due to icing
- Commercial import available
- Wind reduced to < 200MW

~800 MW of wind

- Net Imports
- Storage
- Color
- Solar
- Hydro
- Dispatchable Gas

Friday Jan 12





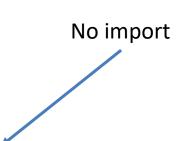
- Coordination with natural gas network
- EEA3 @ 16:15
- Combined cycle on forced outage
- No wind
- Used Energy storage to increase Path 1 import
- Commercial and emergency import
- EEA0 @ 21:12

Sat Jan 13 WECC



External:

- High demand in US Pacific NW and BC
- Planned intertie outage between California and Pacific NW
- Idaho declared EEA3 AM (and 4 others)
- Prairie Jackson Gas storage forced outage
- Mid-C spot price > CDN 1,300\$
- Priced out = No commercial offers input



Net Imports
Storage
Wind
Solar
Hydro

Sat Jan 13 AEMA



- EEA3 15:30
 - Gas steam turbine derate and recovered
 - 150 MW from Western Power Pool(WPP) for 1 hour
 - Consumed Energy Storage for reserves
- Emergency Alert sent at 18:44
 - Exhausting Energy Storage and WPP emergency sharing
 - 170 MW of load drop within 3 mins and further 100 MW in 10 mins
 - Combined cycle tripped due to line outage



Sunday Jan 14



- Additional generation outages
- Gas-steam turbine derated and recovered
- Slightly higher wind and more import available
- Prolonged load evening down-ramp

Net Imports

Storage
Wind

Wind

Hvdro

Hydro

Dispatchable Gas

Monday Jan 15



- Continuation of Sunday's conditions
 - No import
- Tight supply until wind & solar generation ramp up

Net Imports
Storage
Wind
Solar
Hydro
Dispatchable Gas



