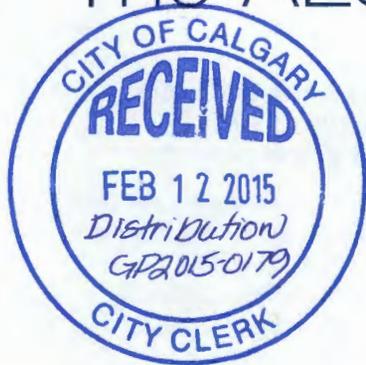


The AESO: an overview



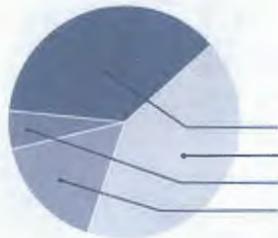
The AESO plays a vital role in making sure that power is available when and where you need it.

We are responsible for:

- Planning Alberta's network of towers, wires and related infrastructure.
- Operating Alberta's power grid – safely, reliably, every minute of every day.
- Developing and operating Alberta's wholesale electricity market.
- Connecting electricity generators and industrial customers to the grid.

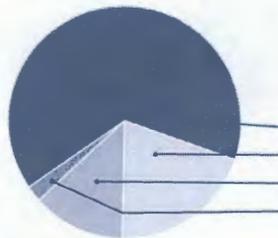
➤ **PLANNING, OPERATING, DELIVERING**

Alberta's interconnected electric system is complex, dynamic, and continually evolving. Monitoring the full spectrum of electricity generation and delivery—how electricity is produced, and where it is used, every single day—is the first step in understanding our current and future needs.



**SUPPLY:
OUR SOURCES OF
ELECTRICITY (MEGAWATTS)**

(2015 Data)
 Natural gas 7,132 MW
 Coal 6,271 MW
 Renewables 2,756 MW
 Interties 918 MW



**DEMAND:
WHO CONSUMES
ALBERTA'S ELECTRICITY**

(2015 Data)
 Industrial (including Oilsands) 65%
 Commercial 20%
 Residential 13%
 Farm 2%

FAST FACTS

The AESO is:

- Working **24/7** for Albertans
- Supplying power to over **4 million** Albertans

Alberta has:

- Over **26,000 km** of transmission lines
- More than **235** generating units
- Over **190** market participants



➤ **WHO IS THE AESO?**

The Alberta Electric System Operator (AESO) is a not-for-profit organization with no financial interest or investment in the power industry. We plan and operate Alberta's electricity grid and wholesale electricity market safely, reliably and in the public interest of all Albertans.

➤ **PLANNING RIGHT NOW, AND IN THE FUTURE**

- Alberta's need for power is growing faster than anywhere else in North America.
- The AESO takes a holistic approach to planning the electricity transmission system in a way that not only meets our needs today, it readies us for future demand.
- As part of our planning, the AESO forecasts electricity demand, which helps attract new generation. The private sector responds by investing their money into new generation. This approach has served Alberta's electricity needs well, and will continue to do so.

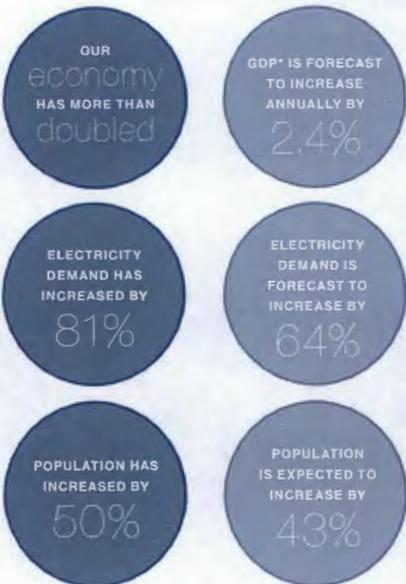
➤ **OPERATING 24/7 FOR ALBERTANS**

- AESO System Controllers monitor the grid, actively balancing electricity supply and demand—providing power where and when you need it, every minute, every day, 365 days a year.
- We work closely with Alberta's major transmission facility owners including ENMAX Power Corporation, EPCOR Utilities Inc., ATCO Electric Ltd., and AltaLink Management Ltd. to serve the needs of Albertans.
- The AESO is responsible for producing rules and parameters for electricity industry participants. We work closely with the provincial government, regulatory bodies, generation facility owners and numerous other electricity market participants to ensure that the province's electricity market is fair, efficient and openly competitive.

➤ **DELIVERING RELIABLE ELECTRICITY AT COMPETITIVE PRICES**

- Alberta has transparent electricity costs—no costs, taxes or fees are "hidden" in the system.
- Our \$5 billion electricity market is a key enabler of Alberta's \$300 billion economy.
- No Canadian province has seen the rapid growth in electricity demand that Alberta is experiencing. Because of our competitive electricity market, Alberta has been able to keep pace with that growth.

OVER THE **past** ↔ OVER THE **next**
20 YEARS 20 YEARS



* Gross Domestic Product



Companies that offer electricity into Alberta's competitive market must set the prices for their electricity ahead of time. AESO System Controllers always use the lowest-priced electricity first, and then the next lowest.