

Privacy Statement

The Alberta Electric System Operator (AESO) is committed to protecting your personal privacy in accordance with Alberta's *Personal Information Protection Act*. Any personal information collected by the AESO with regard to this project may be used to provide you with further information about the project, may be disclosed to the Alberta Utilities Commission (and as a result, may become public), and may also be disclosed to the eligible Transmission Facility Owner.

If you have any questions about how the AESO will use and disclose your personal information collected with regard to this project, please contact us at 888.866.2959 or at stakeholder.relations@aeso.ca.



Our Principles for Public Involvement in Transmission System Planning

1. Every member of the public must have an opportunity to comment on the plans
2. The public must have an opportunity to be informed in a timely manner of the direction, plans, status of issues and decisions related to a project
3. The experience and expertise offered through public involvement is used to improve the quality and implementation of decisions
4. The public involvement process and the rationale for decisions are transparent

A STAKEHOLDER IS

Anyone who has a “stake” in the outcome of the project



The AESO is:

A not-for-profit statutory company, operating in the public interest

Independent of any company or person with a material interest in the electric industry

AESO key functions:

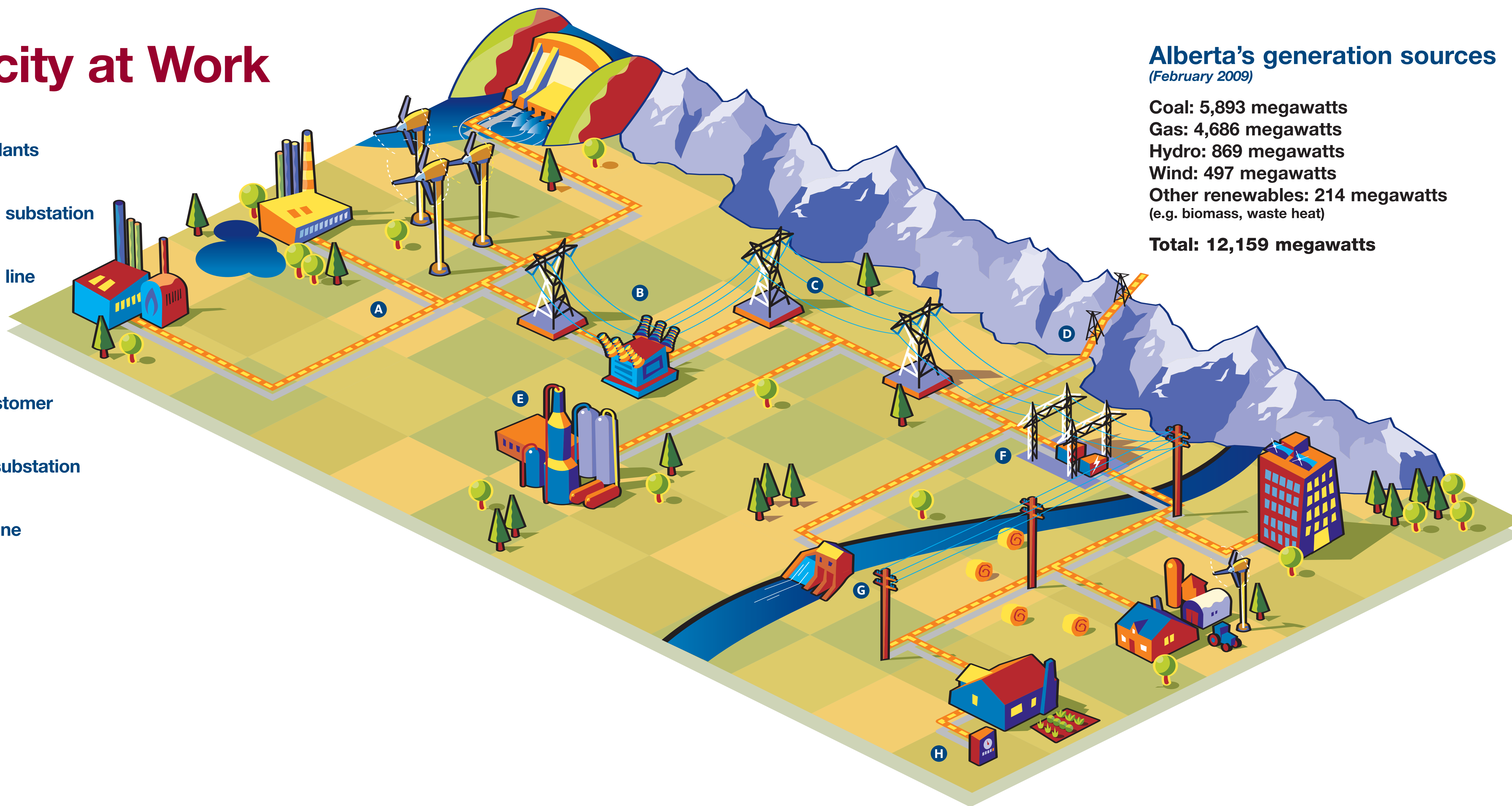
Operation and long-term planning of the Alberta Interconnected Electric System to ensure reliable service to Albertans

Promote a fair, efficient and openly competitive market for electricity in Alberta



Electricity at Work

- A** Generating plants
- B** Transmission substation
- C** Transmission line
- D** Intertie
- E** Industrial customer
- F** Distribution substation
- G** Distribution line
- H** Power meter



Alberta's generation sources *(February 2009)*

Coal: 5,893 megawatts
Gas: 4,686 megawatts
Hydro: 869 megawatts
Wind: 497 megawatts
Other renewables: 214 megawatts
(e.g. biomass, waste heat)
Total: 12,159 megawatts



Transmission system planning at the AESO

- 20-Year Transmission System Outlook – generation and load focused; high level conceptual transmission alternatives
- 10-Year Transmission System Plan – roadmap for transmission development and context for Need Applications
- Individual Need Applications

The AESO's transmission system planning process

Two main drivers of transmission planning:

1. Load growth (demand)
2. Generation development (supply)

Transmission system expansion

The AESO is constantly monitoring the capacity of the transmission system to reliably meet Alberta's demand for electricity. As our population grows and our economy expands, the need for power increases. To maintain reliability, the transmission system must keep pace with Alberta's growth.



South Calgary 69 kV Upgrade

Planning for Need

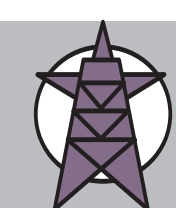
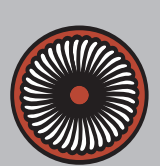
- Generation development
- Load growth

Transmission Development in South Calgary

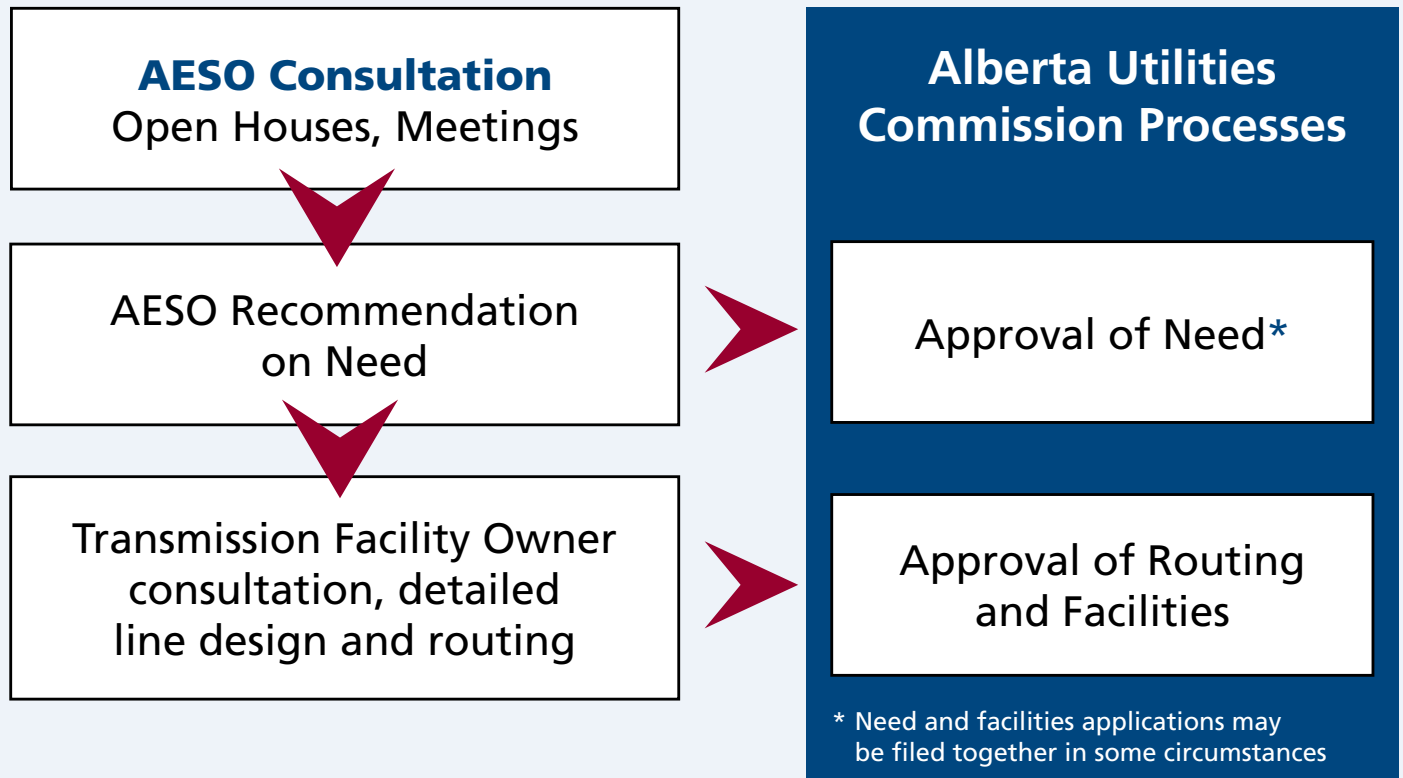
- Aging infrastructure
- Increasing demand
- Need to restore operational flexibility

The AESO's Planning Considerations

- Social
- Technical
- Economic



Regulatory Process for Transmission System Development



Alberta's transmission development process

1. The Need: the AESO studies the need for transmission development, determines a preferred alternative and applies to the Alberta Utilities Commission for approval
2. The Facilities (lines, towers and substations): To meet the need, the Transmission Facility Owner applies to the Alberta Utilities Commission for approval to construct facilities

