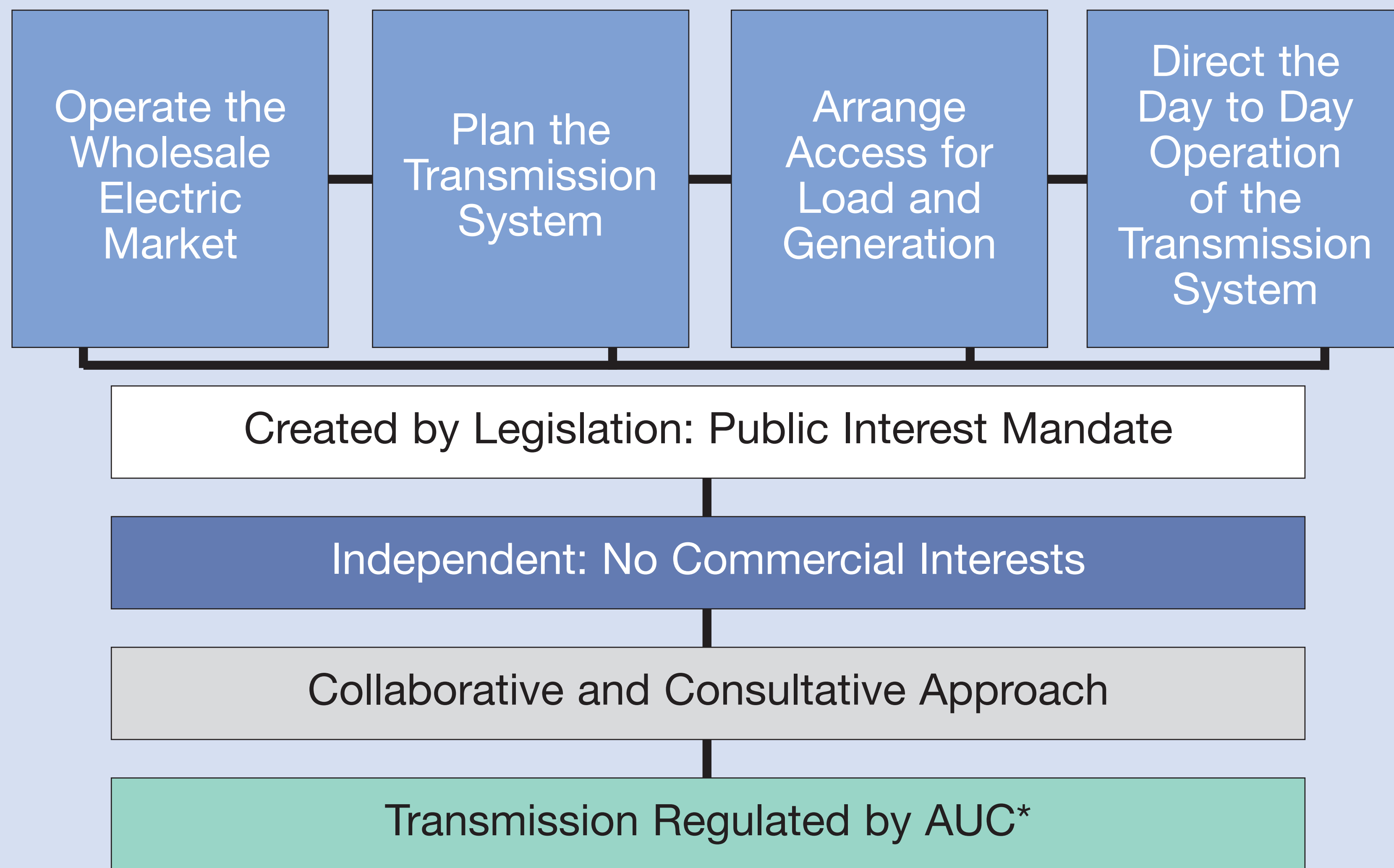


South Calgary 69 kV Upgrade

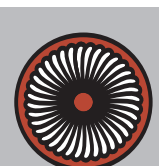
AESO: Our Role and Context



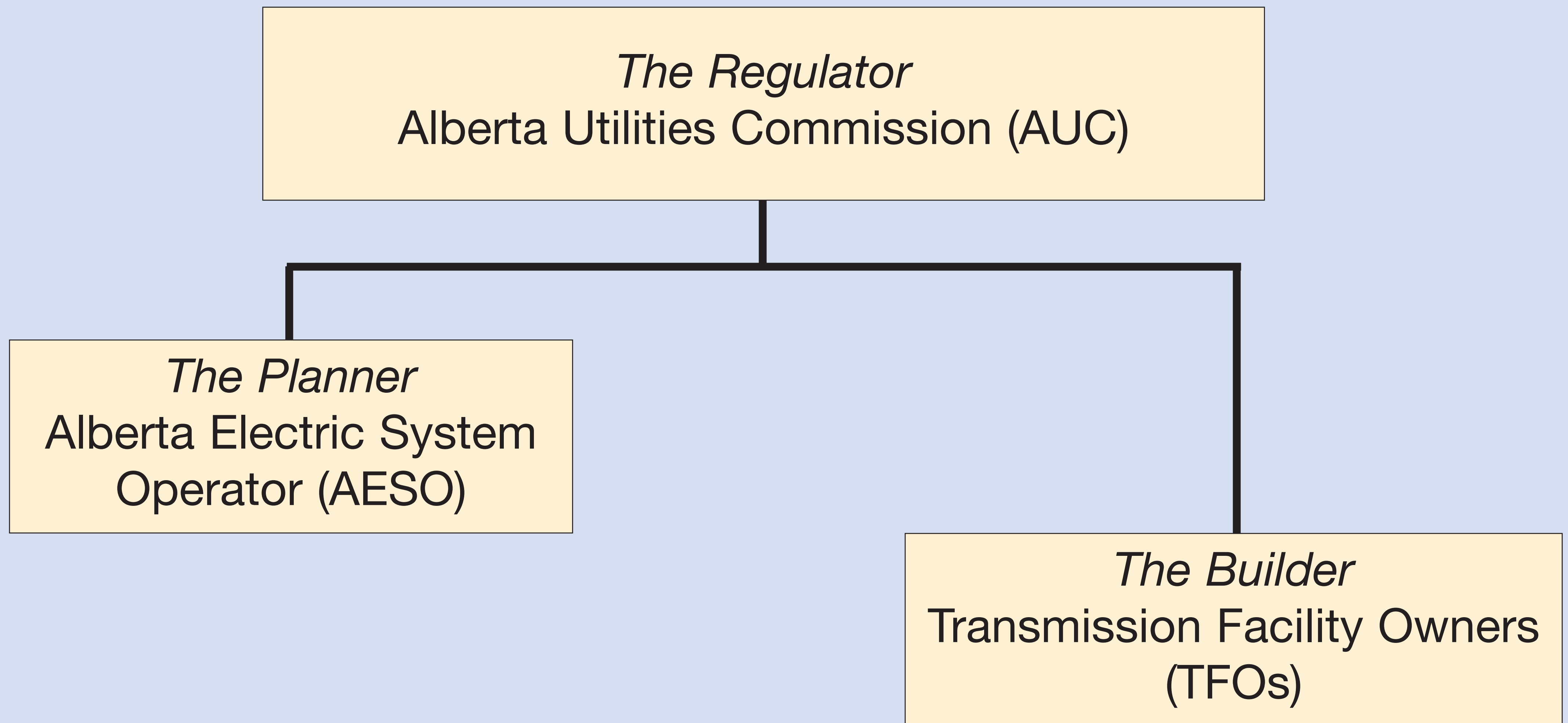
*Alberta Utilities Commission

AESO Vision

The AESO will be seen as a **key contributor to the development of Alberta** and the **quality of life** for Albertans, through our leadership role in the facilitation of **fair, efficient and openly competitive** electricity markets and the **reliable operation** and development of the Alberta Interconnected Electric System (AIES).



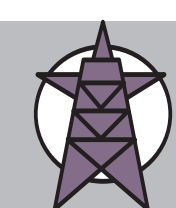
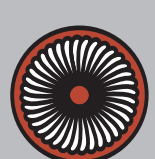
Regulatory Process for Transmission Development



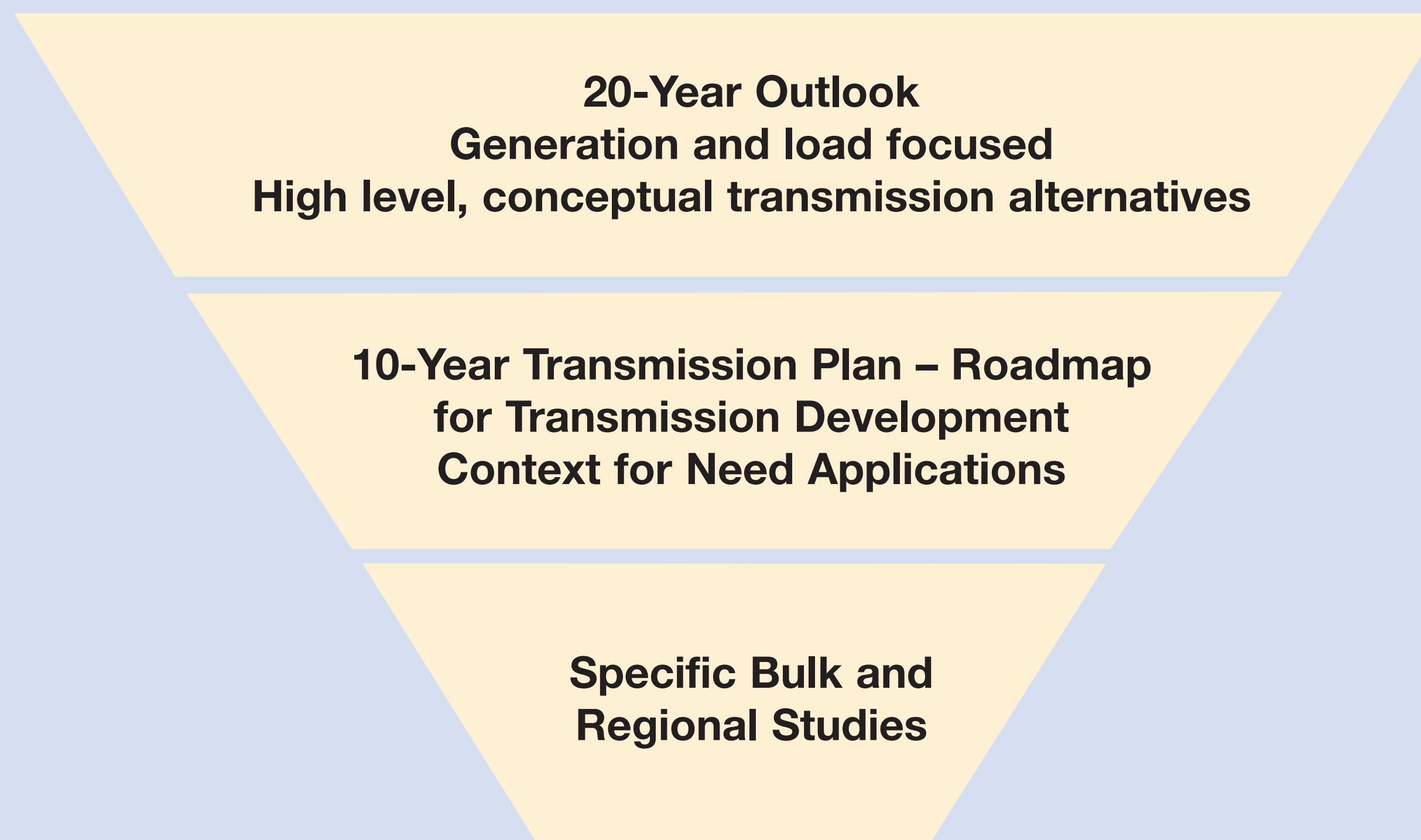
The Process (two parts)

1. The Need: The AESO studies the need for transmission development and applies to the AUC for approval.
2. The Facilities (lines, towers and substations): To meet the need, the TFO applies to the AUC for approval to construct facilities.

In Calgary, the TFO is ENMAX.



Transmission Planning at the AESO



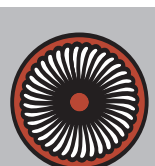
The AESO’s transmission planning process

Two main drivers of transmission planning:

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

System reinforcement

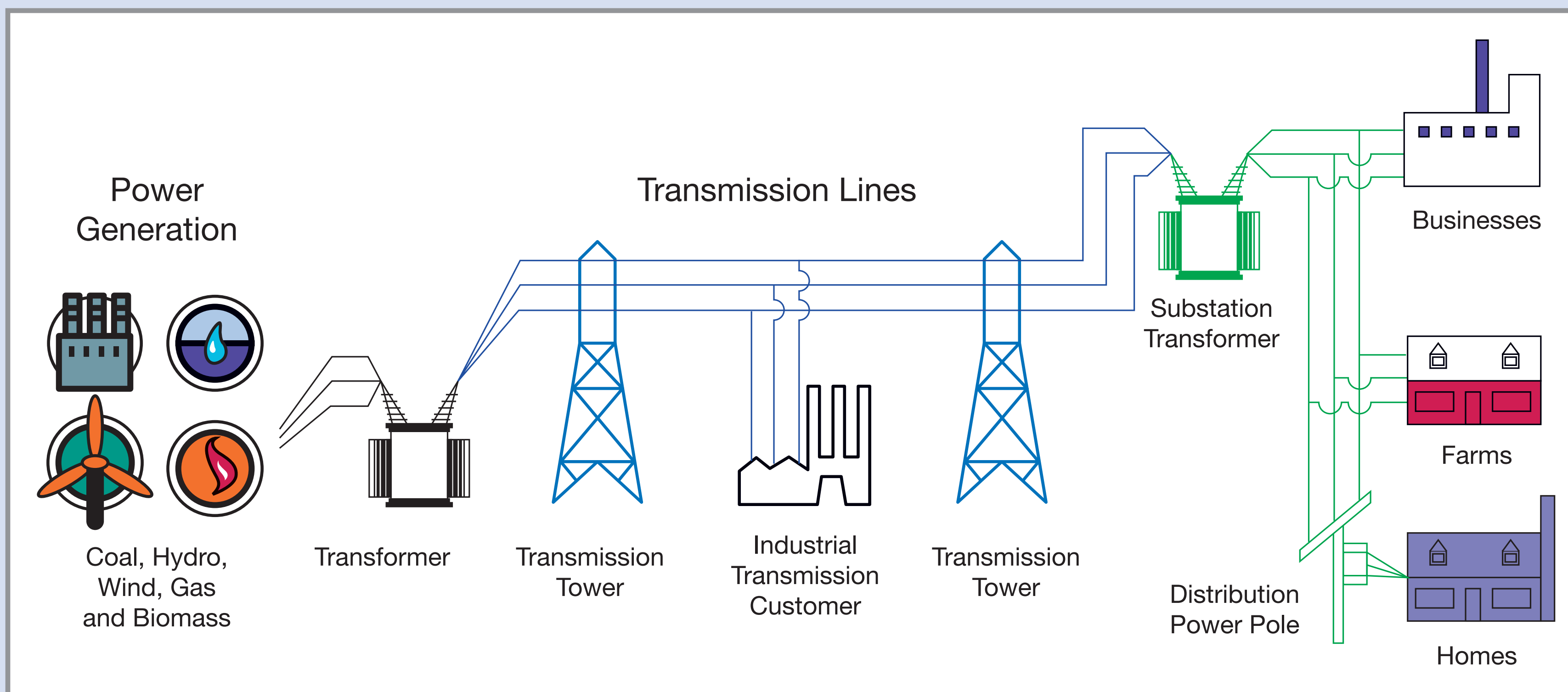
The AESO is constantly monitoring the capacity of the transmission system to reliably meet Albertans’ demand for electricity. As our population grows and our economy expands, the need for power increases. To maintain reliability, the transmission system must keep pace with Alberta’s growth.



South Calgary 69 kV Upgrade

The Big Picture

The Flow of Power

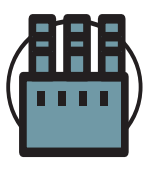






There are three distinct functions involved in moving power from its source to consumers; each plays a different role in a complete electric system.

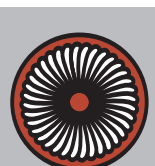
Alberta's Electric Industry

- More than 21,000 km of transmission lines
- Interties B.C. (up to 780 MW) & Saskatchewan (up to 150 MW)
- Over 280 generating units
- 9,701 MW system peak demand
- About 200 market participants
- 12,188 MW total maximum generating capacity

Alberta's Electricity Generation

	Coal-Fired Plants	5,893 MW
	Natural Gas-Fired Plants	4,669 MW
	Hydro Power	869 MW
	Green Power Wind Power	523 MW
	Green Power Other Renewables	234 MW
Total Installed Generating Capacity		12,188 MW
Transmission Interconnections		
	British Columbia	Import: 0-780 MW; Export 0-800 MW
	Saskatchewan	Import: 0-150 MW; Export 0-60 MW

Figures as of April 2008



South Calgary 69 kV Upgrade

Planning for Need

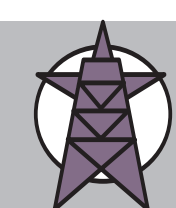
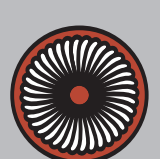
- Generation development
- Load growth

Transmission Development in South Calgary

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

The AESO's Planning Considerations

- Social
- Technical
- Economic



South Calgary 69 kV Upgrade

Participant Involvement Program for South Calgary 69 kV Upgrade

Discussions with:

- Residents
- Government representatives
(municipal and provincial)
- Community interest groups and other parties

Activities:

- Open Houses (4 events in May)
- Meetings
- Follow up

Information on the AESO's Participant Involvement Program:

- The AESO website
- Transmission projects phone line
1-888-866-2959

