

# Chapel Rock to Pincher Creek Area Transmission Development & Alberta-British Columbia Intertie Restoration

AltaLink Community Workshops

April 10 & 11, 2018

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#### About the AESO



- System reliability is our highest priority
- Obligated to respond to requests to connect new generation to the grid
- Not-for-profit, statutory corporation
  - Must operate in the public interest
  - No financial interest in any generation unit, transmission or distribution infrastructure
- A source of information for you



## AESO's enabling legislation

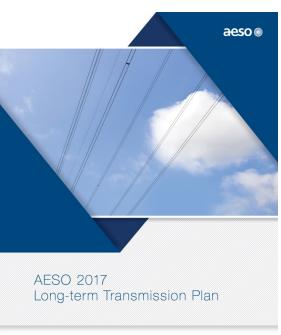




#### Transmission planning – overview



- Long-term planning essential to providing a safe and reliable grid
  - Enables growth
  - Supports generation additions
  - Provides access for investors
- Long Term Transmission Plan (LTP)
  - 20-year vision for Alberta's transmission system
  - Not a decision document; regulatory approval of projects required
  - Updated every two years
- Transmission development plans are submitted by AESO to the AUC as a Need application



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#### Planning the grid

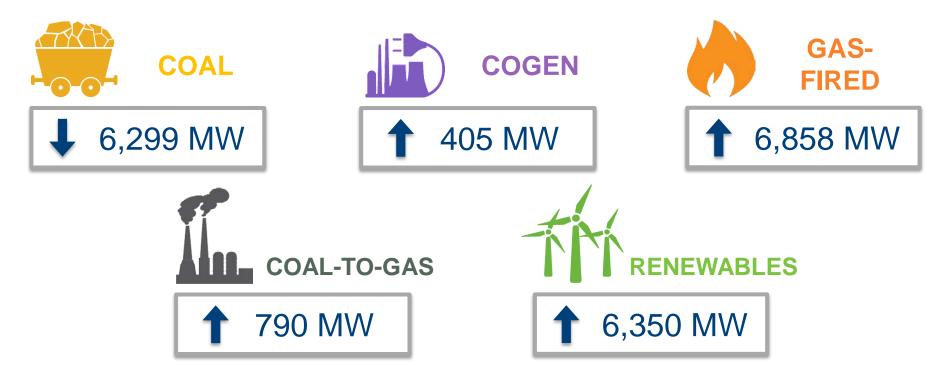


- Transmission planning is an ongoing process, with continuous monitoring of needed transmission plans in response to changes such as
  - economics
  - government policies
  - electricity market participant's connection requests
- Accountable to all Albertans to ensure the right amount of transmission is built at the right time and in the right area

### Alberta's electricity landscape is evolving

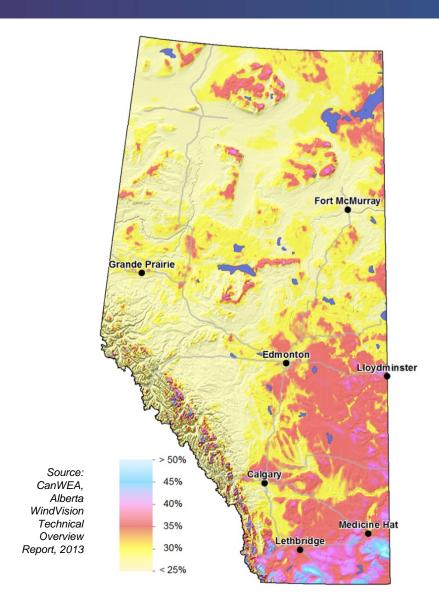


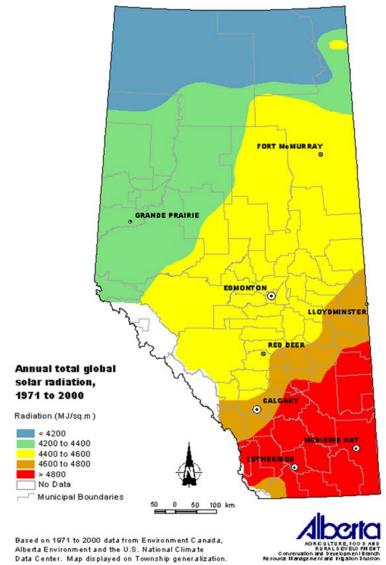
- Integrating more renewables
- Phase out emissions from coal-fired generation
- Introducing a capacity market



# Solar & wind resource potential







#### Need for transmission development remains



- Diligent review of approved plans in the Pincher Creek area confirms the need for transmission remains to efficiently integrate renewables
- Two technically viable solutions identified
  - two 240 kV transmission circuits between a planned substation, to be called Chapel Rock and either the
    - existing Castle Rock Ridge substation

#### OR

- existing Goose Lake substation
- Opportunities to stage development may also be available



# Restoring Alberta's Intertie with British Columbia



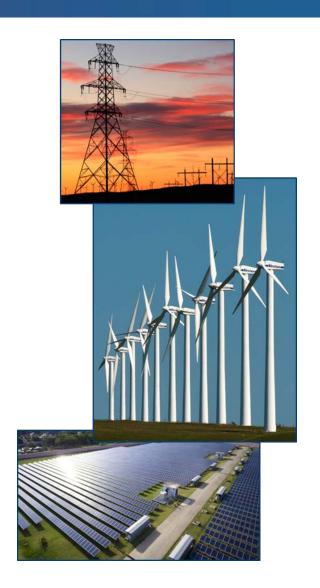
- To assist with reliability of electricity supply for Albertans as grid evolves
- Involves
  - additional equipment underneath the existing 1201L
  - clearance mitigation work on 1201L
  - increase transformer capacity at the Bennett substation, near Calgary
  - Chapel Rock to Pincher Creek
    Transmission development will
    also contribute



#### Next steps



- Detailed routing and siting information is required
- AltaLink will develop potential routes and sites for both alternatives, working with stakeholders
- In mid 2019, we plan to seek approval from the Alberta Utilities Commission



#### Connect with us



- Visit our website
  - www.aeso.ca/grid/projects/SATR-CRPC
  - www.aeso.ca/grid/projects/Intertie-Restoration
- Email us
  - stakeholder.relations@aeso.ca
- Call us
  - **1-888-866-2959**







