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Subject: Regulation of Hydrogen

In November of 2021, the Government of Alberta released The Alberta Hydrogen Roadmap, laying out the future of hydrogen in the province. Ensuring regulatory efficiency and standards to drive safety is a key pillar of Alberta's Hydrogen Roadmap. It is important that stakeholders understand Alberta's existing framework for hydrogen development in the province. Alberta's legislation addresses the regulation of hydrogen production, storage, and transportation by pipeline in the province. In particular, the Alberta Energy Regulator (AER) and Alberta Environment and Parks (AEP) have important responsibilities for the regulation of hydrogen, as outlined below.

Alberta Energy Regulator

The AER is responsible for the regulation of:

- Hydrogen production infrastructure connected to or associated with energy resource activities as defined under the *Responsible Energy Development Act* (i.e., upgraders),
- Subsurface in-situ hydrogen production,
- Subsurface storage of hydrogen,
- Wells deeper than 150 meters from the surface used in conjunction with hydrogen storage, and
- Hydrogen pipelines with operating pressures > 700 kPa.

Alberta Environment and Parks

AEP is responsible for the regulation of:

- Hydrogen production infrastructure not connected to or associated with the energy resource activity, including hydrogen used in industrial processes (i.e., stand-alone chemical or petrochemical plants).

For questions about the AER's hydrogen regulations please contact AER's Customer Contact Centre by phone at 1-855-297-8311 or by email at inquiries@aer.ca.

For questions about AEP's hydrogen regulatory rules, please email at aep.outreach-services@gov.ab.ca.