



Dam Safety Program

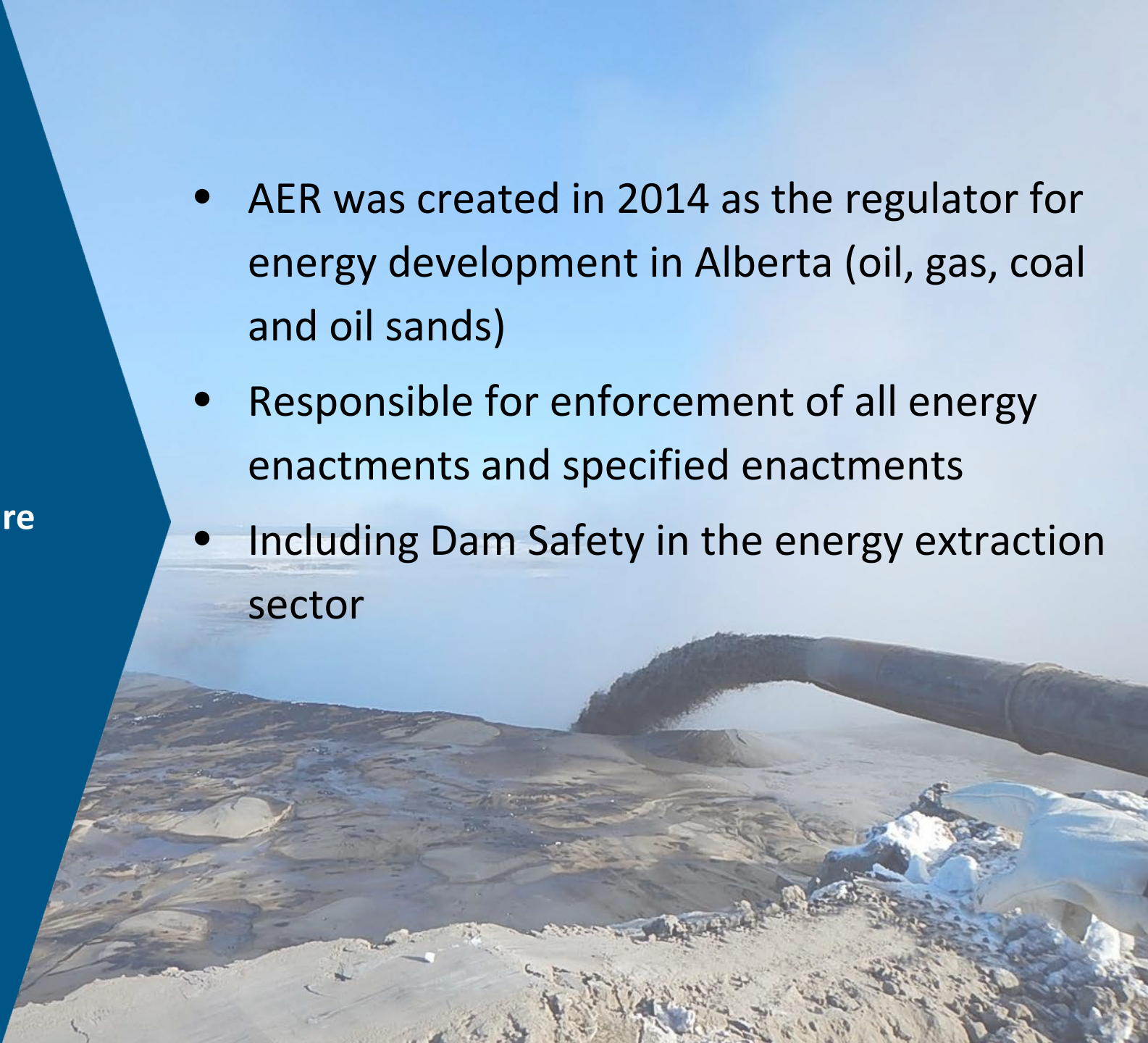
Operations Division

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Who we are

- AER was created in 2014 as the regulator for energy development in Alberta (oil, gas, coal and oil sands)
- Responsible for enforcement of all energy enactments and specified enactments
- Including Dam Safety in the energy extraction sector



Responsibilities

Alberta Environment & Parks

- Policy, Guidelines and Regulations
- Regulate non-energy related dams including:
 - Hydro-electric
 - Water supply
 - Flood control
 - Irrigation
 - Industrial
 - Farming
 - Other
- Over 1350 dams

Alberta Energy Regulator

- Regulate energy extraction dams:
 - Coal mining
 - Oil sands mining
 - Oil and Gas extraction
- 183 dams
- 91 Extreme and Very High consequence dams

**Dam Safety
Program**

- Aligns with AEP policy and guidelines
- Addresses recommendations from OAG
- Ensures energy dams are safe & well managed
- Protect people, property and the environment

Program Principles

- Risk informed:
- Focus on poor performers
- Inspect all facilities within specified surveillance schedules
- Maintain a dam registry
- Transparency: findings reported to public and executive

2015 Activities

- Inspected all dams in energy sector
- Met 1 on 1 with operators
- Develop program documents
- Develop registry and populate with data
- Established working provincial committee with AEP
- Established working relationships (DIAC, UofA, ASDSO, CDA)

2016 Activities

- Issued internal documents
- Deployed the registry
- Held 3 industry sessions
- Training and certification of engineers and inspectors
- Assessing risks
- Issue surveillance plans by energy sector
- Conduct desktop reviews
- Perform inspections
- Audit 3 oilsands operators

What's new for Industry

- Owners submit dam safety self assessments:
 - Management Commitments
 - Emergency Readiness
 - Design Process
 - Construction Process
 - Surveillance Process
 - Dam Performance
- Self assessments will be audited

What's new for
Industry

- AER Risk assessment
 - Dams – Performance and complexity
 - Owners –Dam safety management system
- Full submissions of regulatory documents:
 - OMS
 - ACPR
 - EPP & Flood Maps

**What's new for
the Regulator**

AER Dam Registry:

- Essential data – owner, operation, dam name, location, approval #, consequence class
- Assessments and risk rankings
- Findings from inspections, audits and desk top reviews
- Track deficiency, non-conformance and non-compliance
- Track regulatory submissions

What's new for the Regulator

Transparency

- Report on major deficiency, non-conformance, and non compliances
- Public safety concerns
- General performance of industry

AER

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Questions?

