

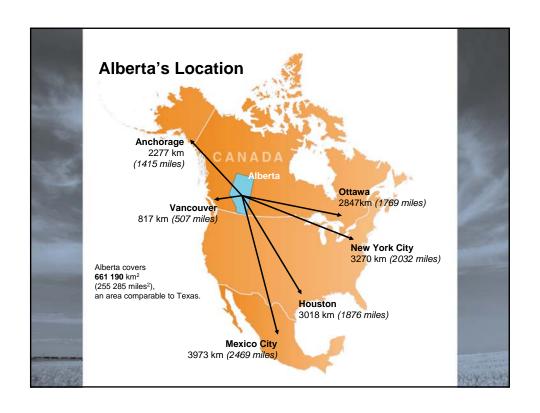
# Regulatory Action in Alberta's Oil Sands

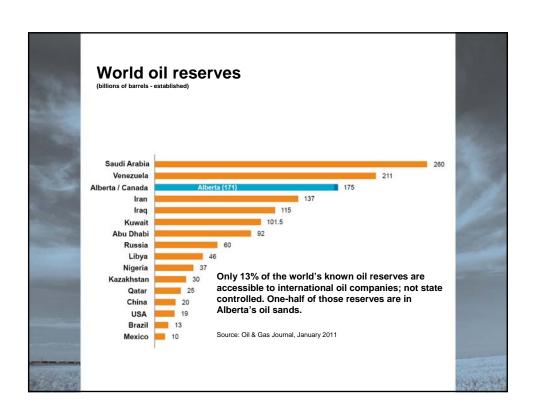
**Energy Resources Conservation Board - Washington, D.C.** 

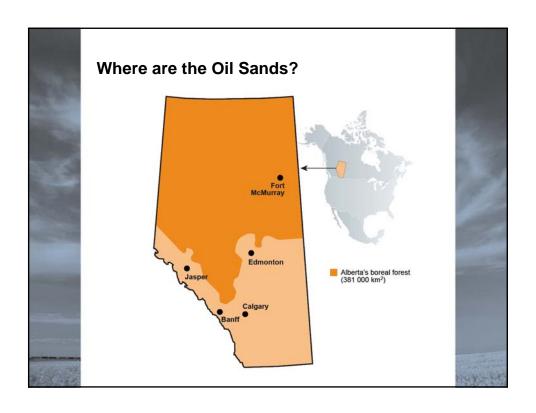
May 2011

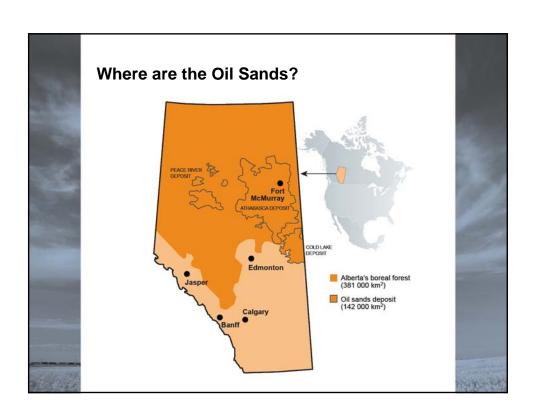


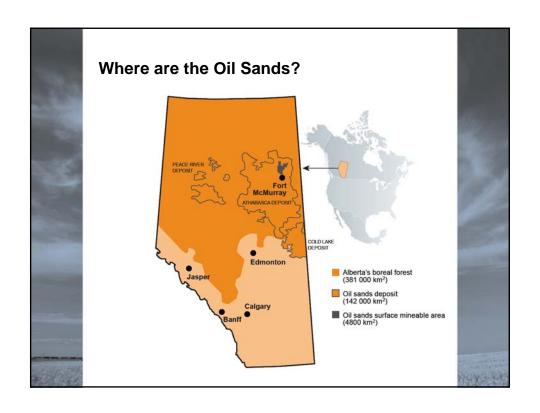
# **Energy Supply** Canada is the largest supplier of crude oil to the U.S. - Oil sands production a growing contribution to North American energy supply and security

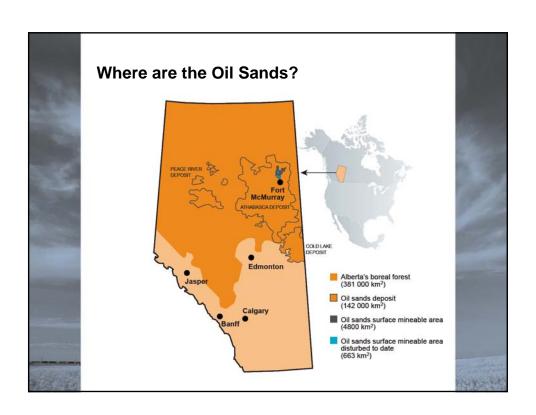












# The Alberta Context

Albertans own the resource

## Alberta Government

- Grants tenure
- Sets and collects royalties

Tenure is an opportunity, not a right



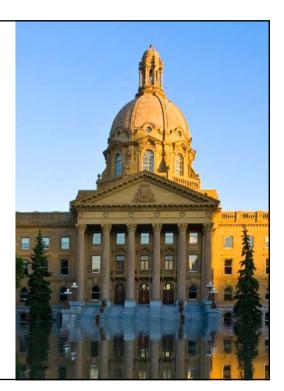


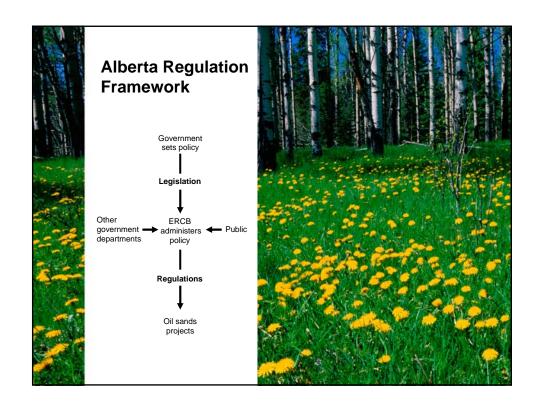
# **Alberta's Values**

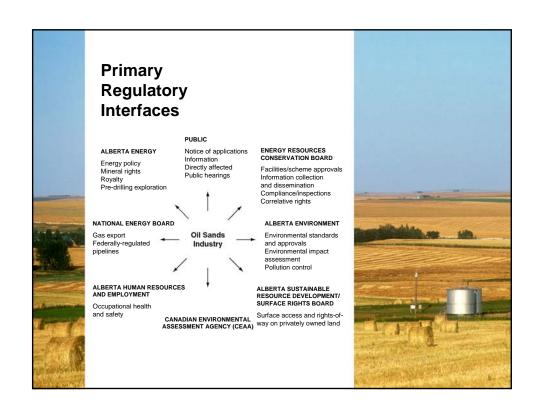
Oil sands regulation is governed by legislation that captures the following values

The public interest balancing

- Environmental, including cumulative impacts
- Social
- Economic









## The ERCB

The ERCB's mission is to ensure development is safe, fair, responsible and in the public interest

- 70+ years of regulatory heritage
- Independent decision maker
- Technical experts
- 9 Board Members and 900+ staff (about 100 focused on oil sands development)



# **Energy Regulated Facilities**



Producing Oil & Gas Wells 176 166\* ERCB Regulated Pipelines 394 000 km

**Gas Processing Plants** 

(633 sweet gas, 292 sour gas) 61 in situ\*\*, 8 surface mines

154 primary recovery projects 20 experimental projects

5 facilities Upgraders

(240 360 m³ per day capacity)

**Coal Mines** 12 plants

(Annual production: 32.2 Mt)

- Producing wells: 9709 bitumen, 35 484 conventional oil, 116 603 gas, 14 120 CBM and 250 shale.
  \*\* As of January 2011

Oil Sands



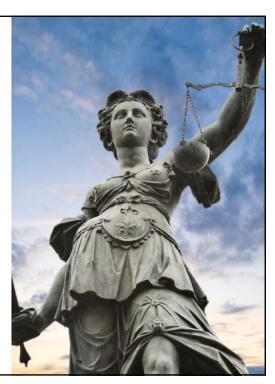




## Rigorous and Transparent Regulation: Application Process

# No oil sands project may proceed without

- Meaningful consultation
- A project application, including an EIA and assessment of cumulative effects
- A complete review by expert ERCB staff
- On complex or contentious projects, a formal hearing
- A formal approval document





## Rigorous and Transparent Regulation: Ongoing Surveillance

# Ensure compliance with

regulations

- Teams of inspectors, including professional engineering and environmental staff
- About 120 inspections of oil sands mines in 2010, typically lasting several days
- Conducted more than 10 000 inspections of in situ facilities since 2007

Take action when noncompliance found



# Compliance Across Alberta

Compliance with major ERCB regulations was 98.6% in 2009

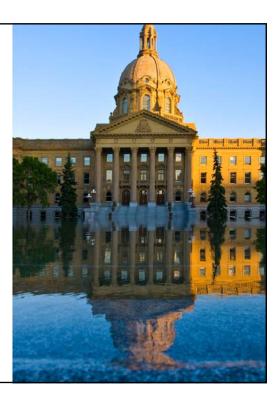
Full disclosure: monthly public compliance summary

### Action against noncompliance

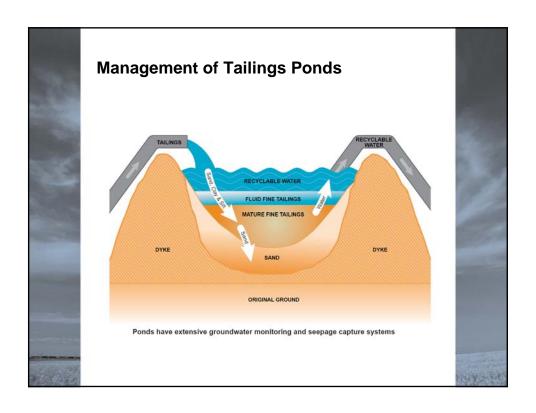
- Shut down 177 facilities in 2009: financial penalty plus immediately mitigates impact
- Operator must show that it won't happen again: compliance plans are audited
- Global refer status
- Coordinate with other government departments

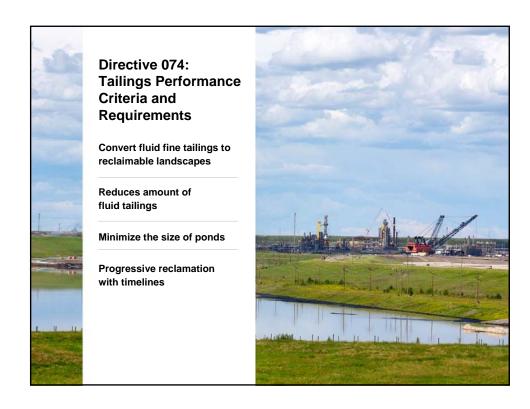
### **Government Action**

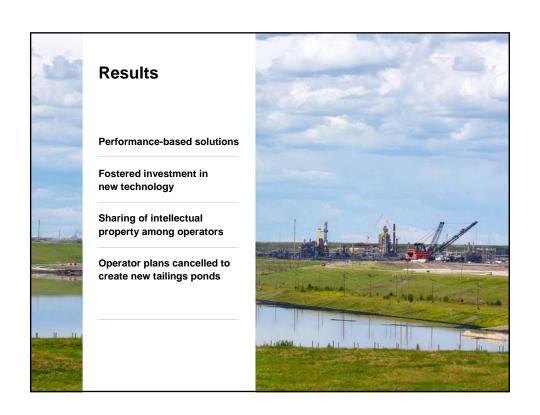
- Prosecutions, fines, creative sentences

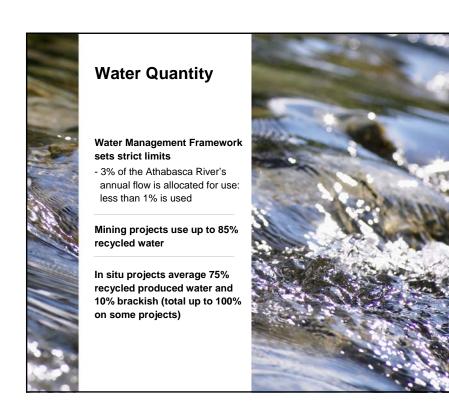


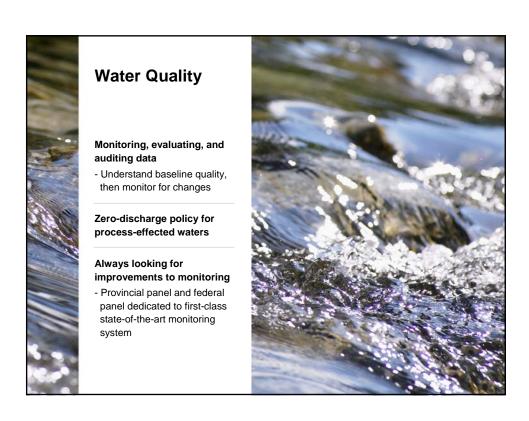


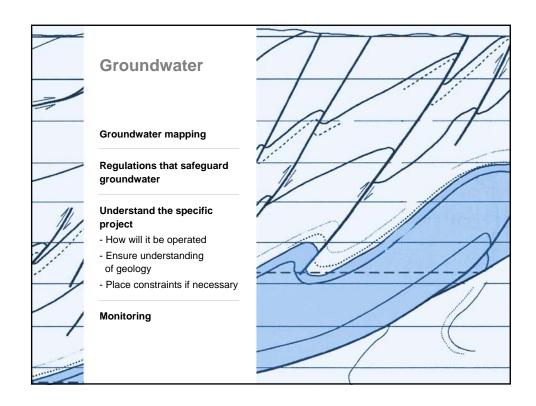


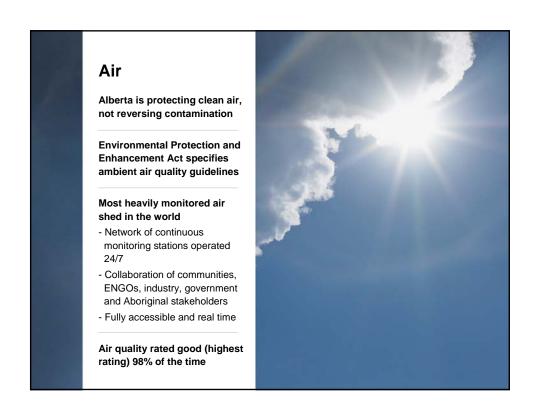


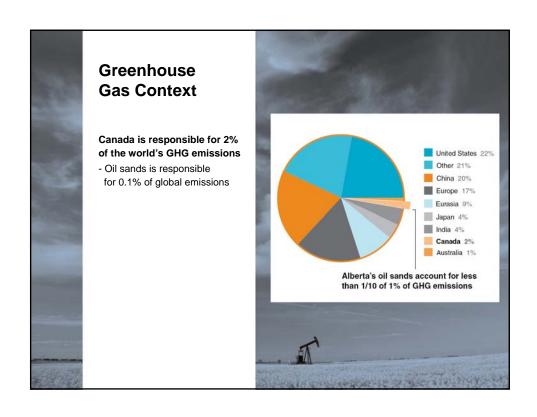


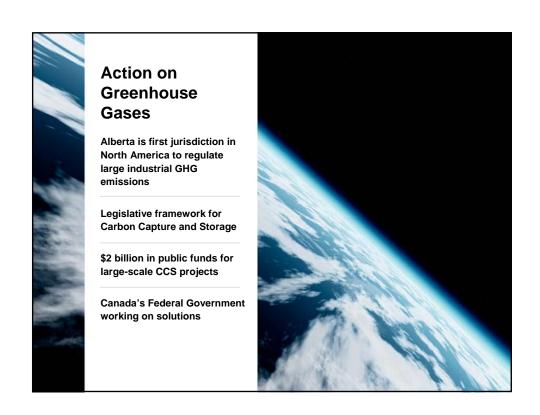














# Progressive Reclamation

Alberta is looking at all aspects of reclamation

- Required by law in Alberta
- Financial security program

# Life expectancy of a mine can be 40+ years

- Must have progressive reclamation

Reclamation certification requires that the land be deemed as productive as before mined.

- Liability transfers back to the province

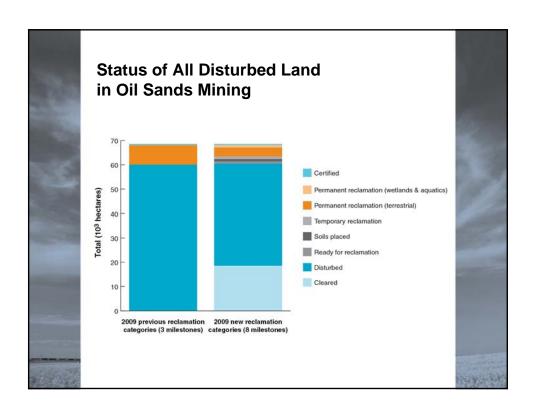












# Cumulative Impacts

### Science-based decisions

- Predict impacts and cumulative effects of a proposed activity
- Follow-up monitoring to validate predictions
- Actions could include:
- Apply conditions to project approval
- Create new ecological areas to compensate
- Mandate additional technology during project operation



# **Draft Lower Athabasca Regional Plan** Manages cumulative effects Conserves more than 7700 square miles of habitat for native species Strict science-based environmental limits for air, land, disturbance and water Triggers to signal where proactive efforts are needed to avoid reaching limits Developed with input from stakeholders including public, local government, and First Nations

