





Alberta's Oil Sands

Resourceful. Responsible.

David Manning

Alberta's Representative in Washington, D.C.

Alberta Washington Office

Phone: 202-448-6475

E-mail: David.Manning@international.gc.ca



Where are the oil sands?



What are the oil sands?

- Naturally occurring mixture of sand, clay, water and bitumen – a very heavy oil
- Bitumen is separated from the sand and upgraded to refinery-ready crude oil

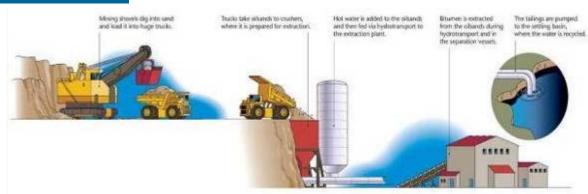






Oil sands: In situ and Mining

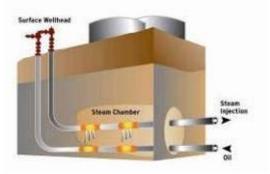
Mining



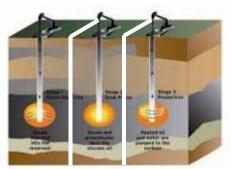
- 20% of resource
- 55% of production

In situ

Steam Assisted Gravity Drainage



Cyclic Steam Process



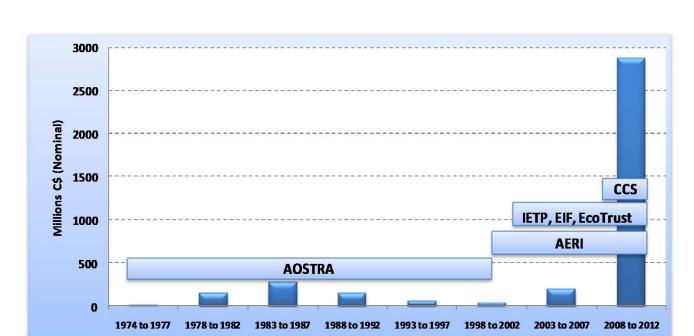
- 80% of resource
- 45% of production





Technology Investment in Alberta

- Alberta's Oil Sands are built on Innovation
- Carbon Capture and Storage Investments
- Alberta Innovation System
- COSIA









Climate Change and Emissions Management Fund

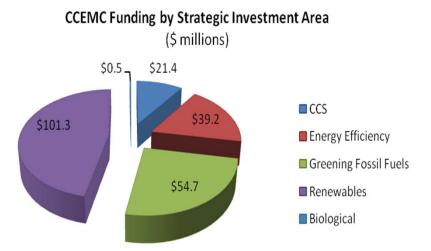


Mission

 The CCEMC was created to be a key part of Alberta's climate change strategy and movement toward a stronger and more diverse lower carbon economy.

Results

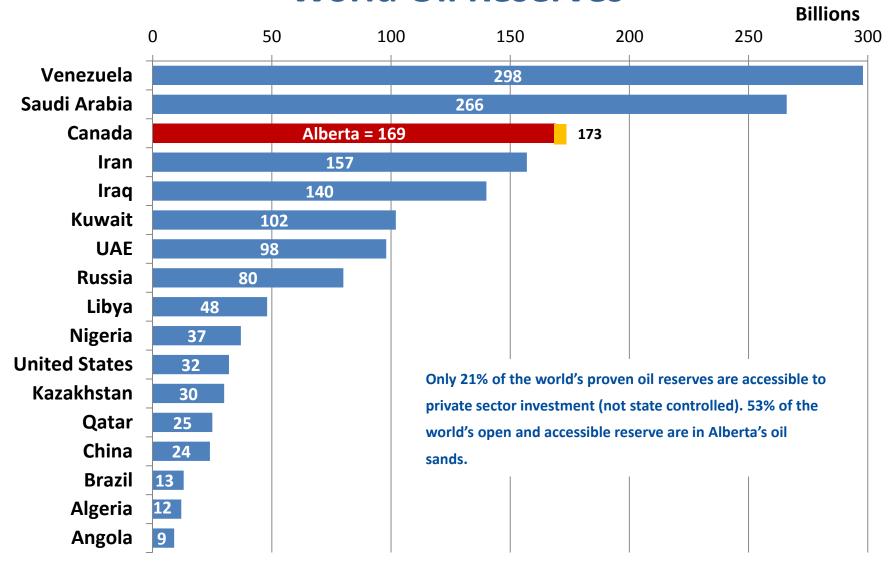
- As of June 2013, there has been \$398 million collected in the fund
- In total, the CCEMC now supports 51 clean tech projects with \$212.8 million in committed funding.
- Estimated annual reductions of 1.7 Mt/year
- Estimated reductions of 13 Mt over 10 years







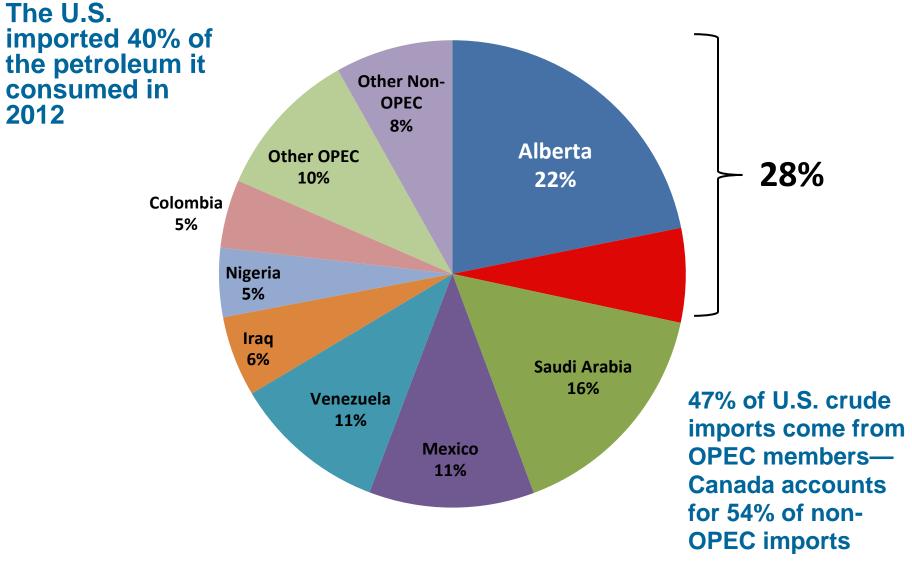
World Oil Reserves







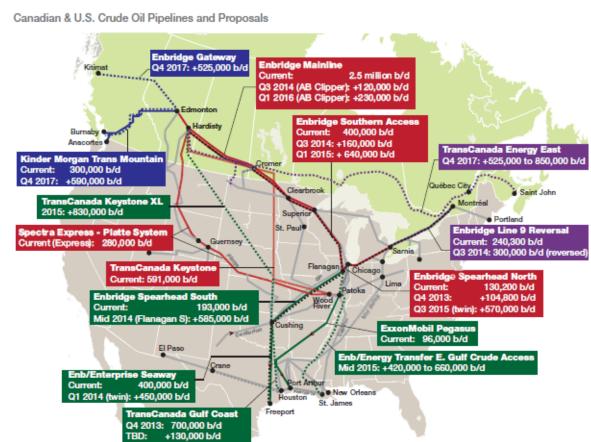
Sources of U.S. Crude Oil Imports 2012







Existing and planned pipeline capacity



Source: CAPP

 Alberta supports all safe and environmentally responsible options to diversify and expand market access





Economic Impact in the U.S.

For every dollar spent on imported goods in 2012, this is how much returned to the U.S. through exports



- The value of Alberta crude oil exports to the U.S. in 2012 were \$57 billion.
- 90% of 57 billion = \$51.3 billion in return U.S. exports to Canada.







Thank You



Albertan