



ENERGY ALBERTA CORPORATION



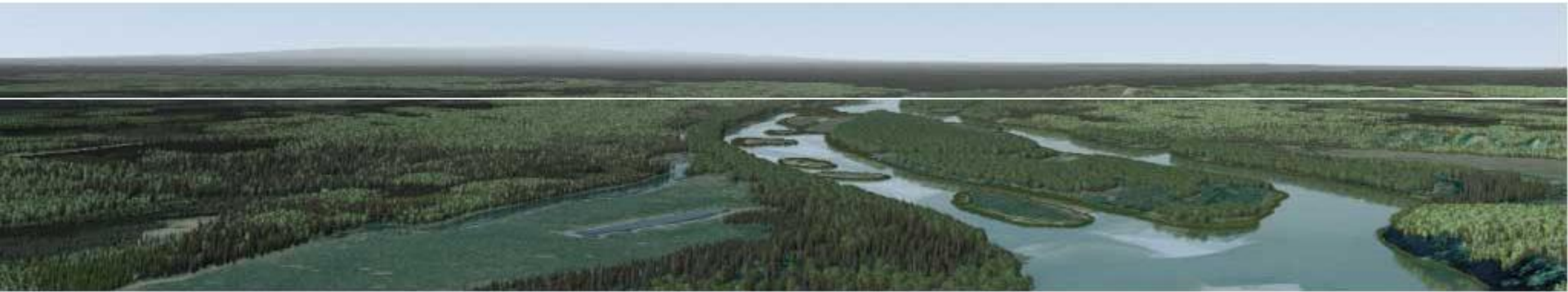
NUCLEAR'S NEW FRONTIERS AND CANADA'S OIL SANDS

PRESENTED BY Wayne Henuset, PRESIDENT
March 1st, 2007





Introduction





Our Mission

- Energy Alberta Corporation will be a profitable provider, of clean energy, utilizing proven nuclear technology to supply oil sands operators and Alberta with a stable glow of electricity, steam and hydrogen at the lowest cost.



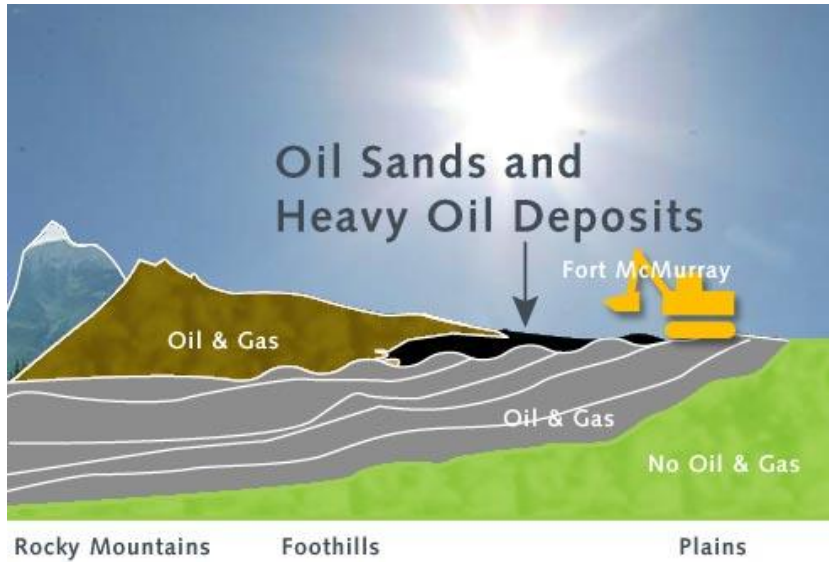


The Alberta Oil Sands





Oil Sands Geology



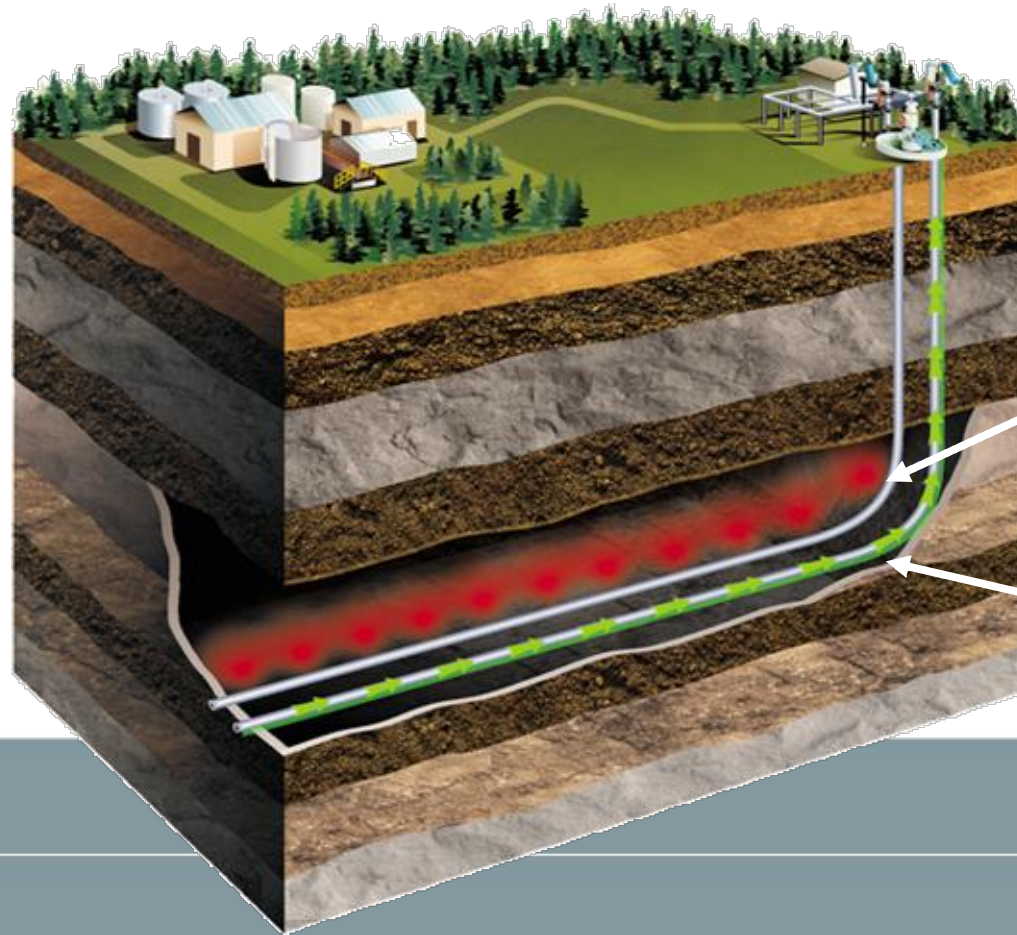


Steam for the Oil Sands





The SAGD Process



Steam

Oil



Upgrader Alley

Fort Saskatchewan





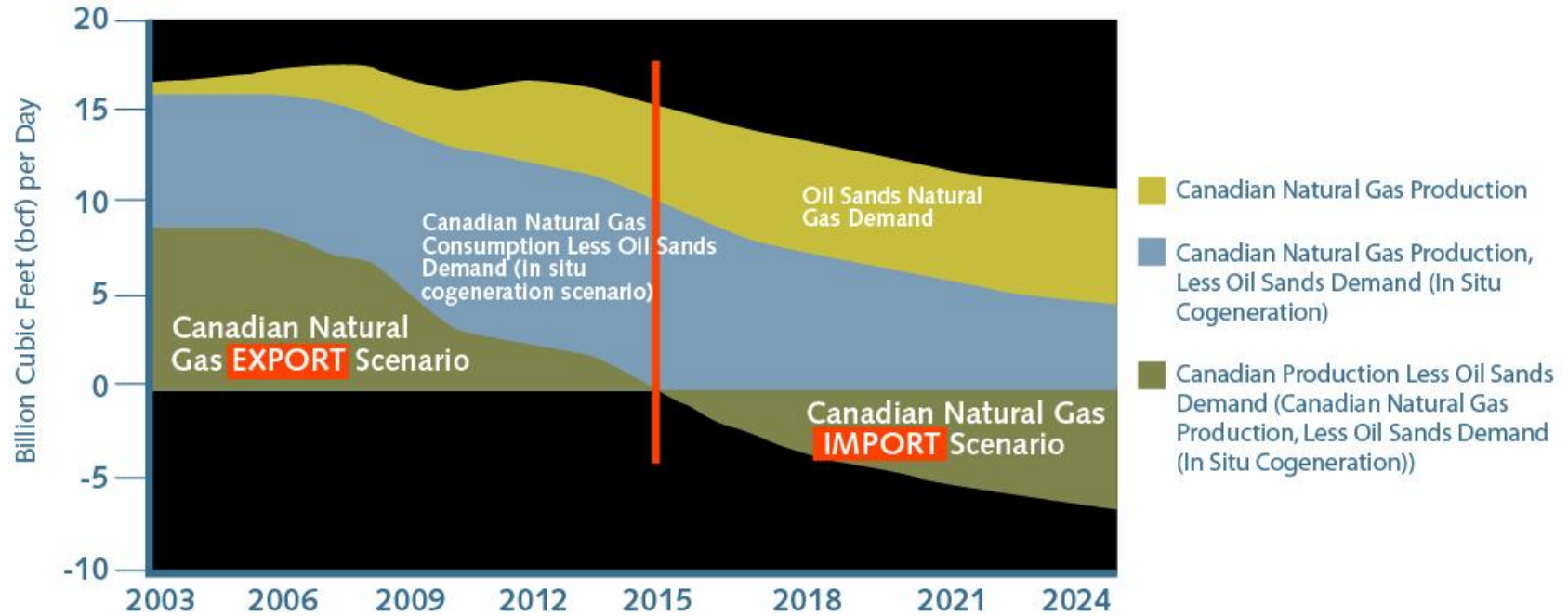
The Demand for Natural Gas

- Demand for natural gas for oil sands production is expected to increase 300% by 2015
(from 0.7 billion cubic feet per day to 2.1 billion cubic feet per day)¹
- NEB has forecasted oil sands production could increase **4 fold** by 2015

¹Source: Canada's Oil Sands: Opportunities and Challenges to 2015. An Update, Canada National Energy Board



Demand of Natural Gas to Exceed Supply





Oil Sands Economic Impact

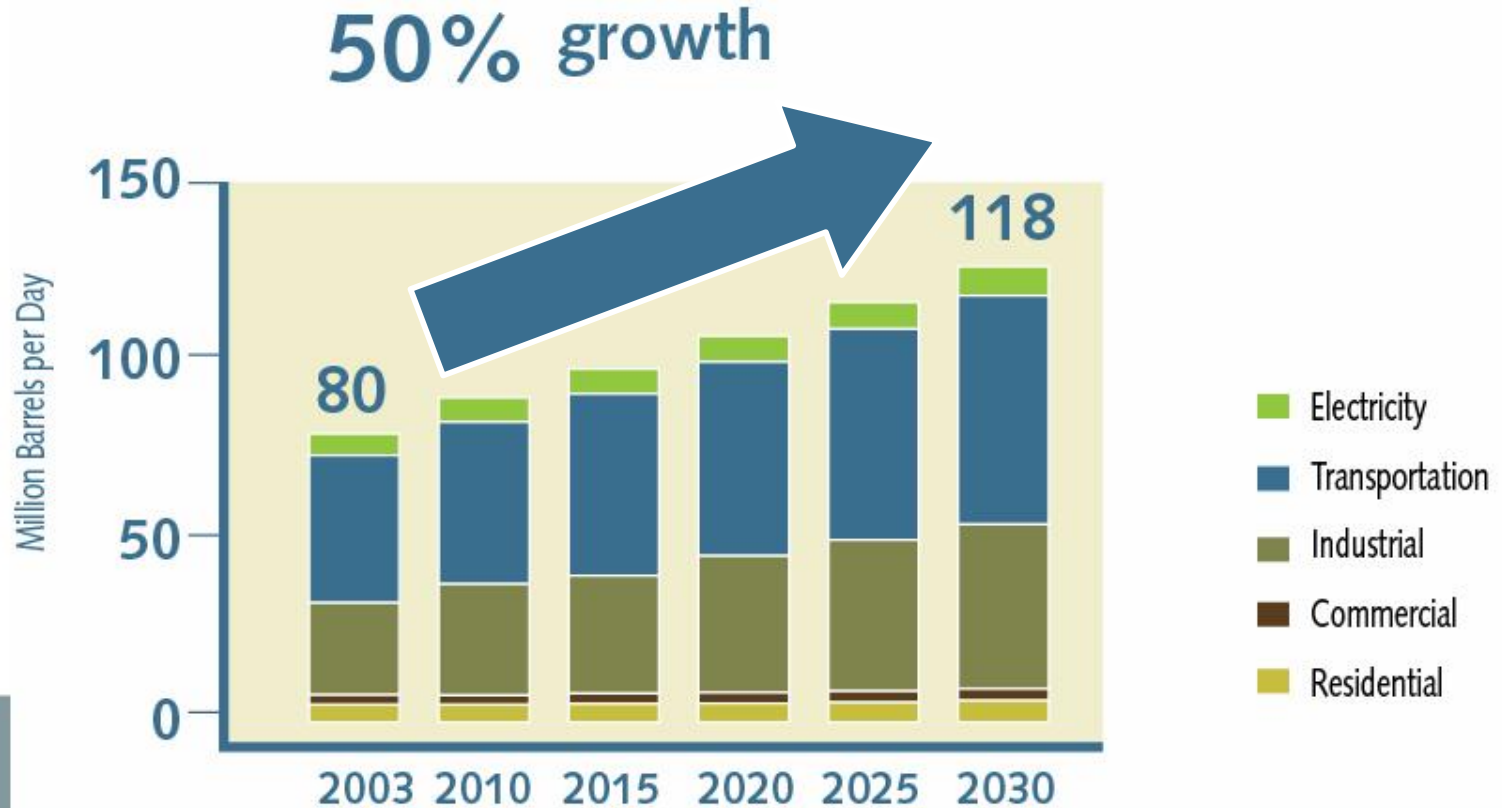
- The oil industry has the largest impact on the Canadian economy,
 - Generating 52% of incremental GDP
 - Generating 18% of the incremental employment.
- **\$123 billion** in total government revenue from oil sands activity





World Demand for Oil

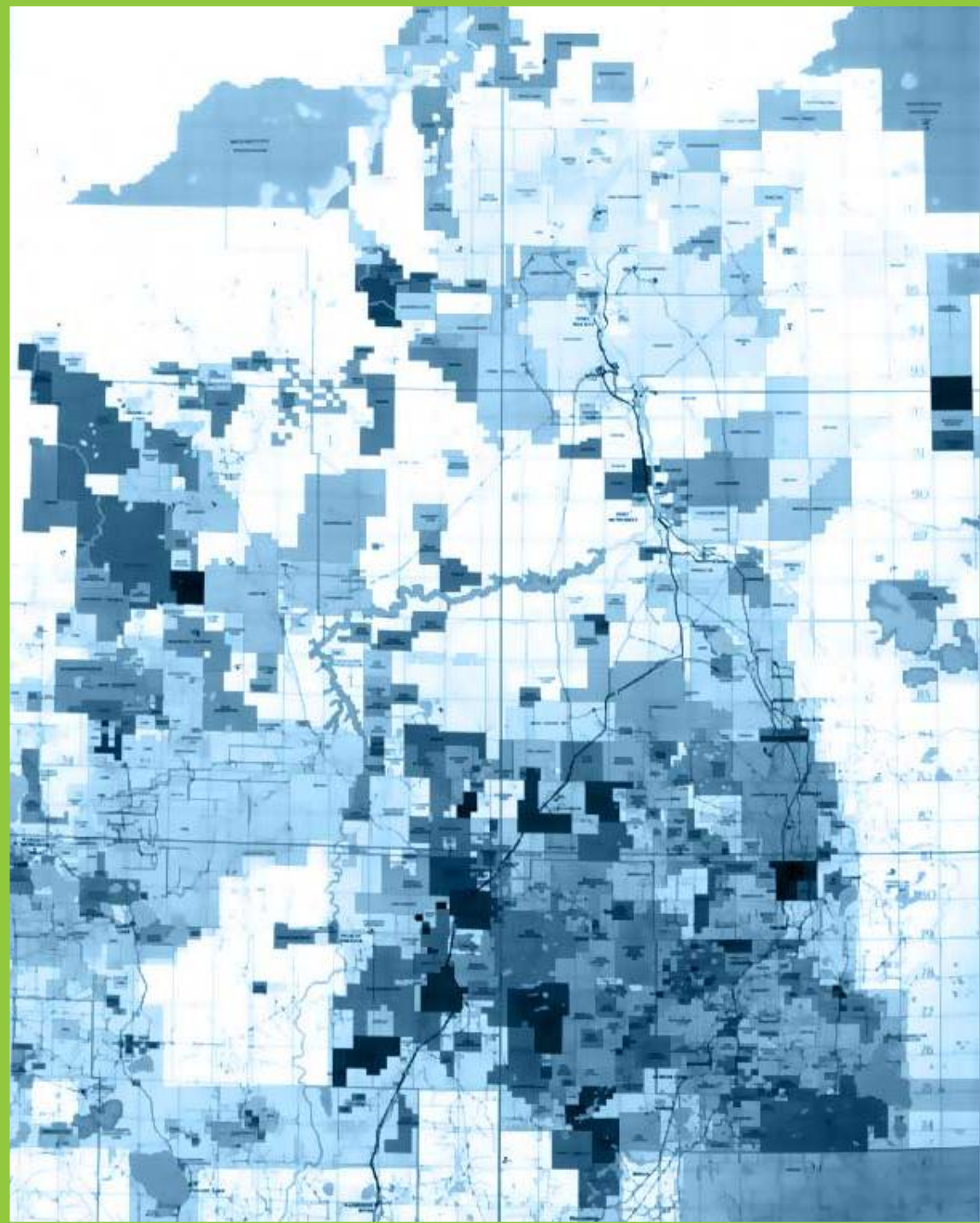
World oil consumption by sector 2003 - 2030



Sources: 2003: Derived from Energy Information Administration (EIA), International Energy Annual 2003 (May –July 2005), website: www.eia.doe.gov/iea/. Projections: EIA, System for the Analysis of Global Energy Markets (2006).

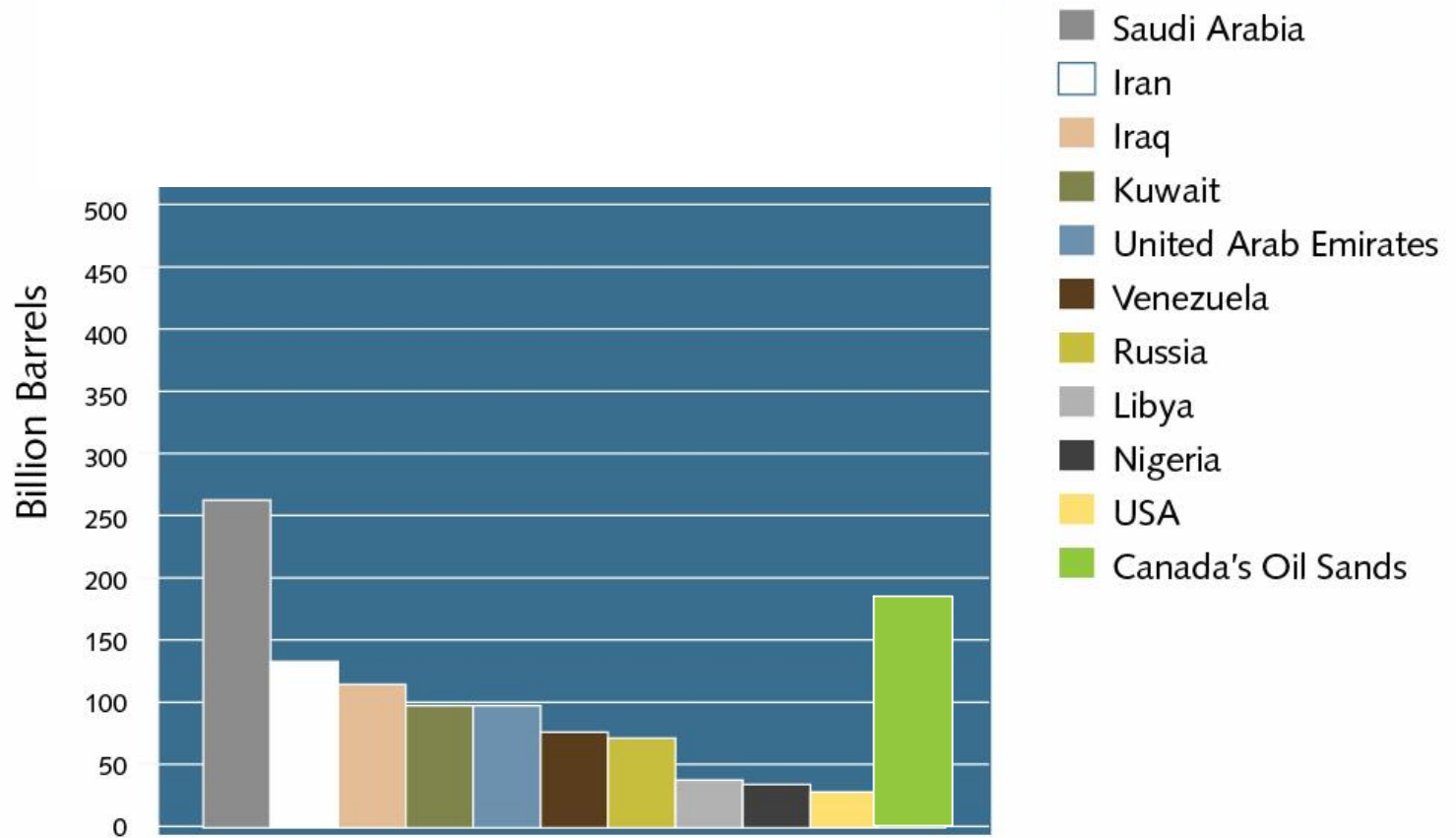


Growth in the Oil Sands





Oil Sands and World Market



source BP (2005)

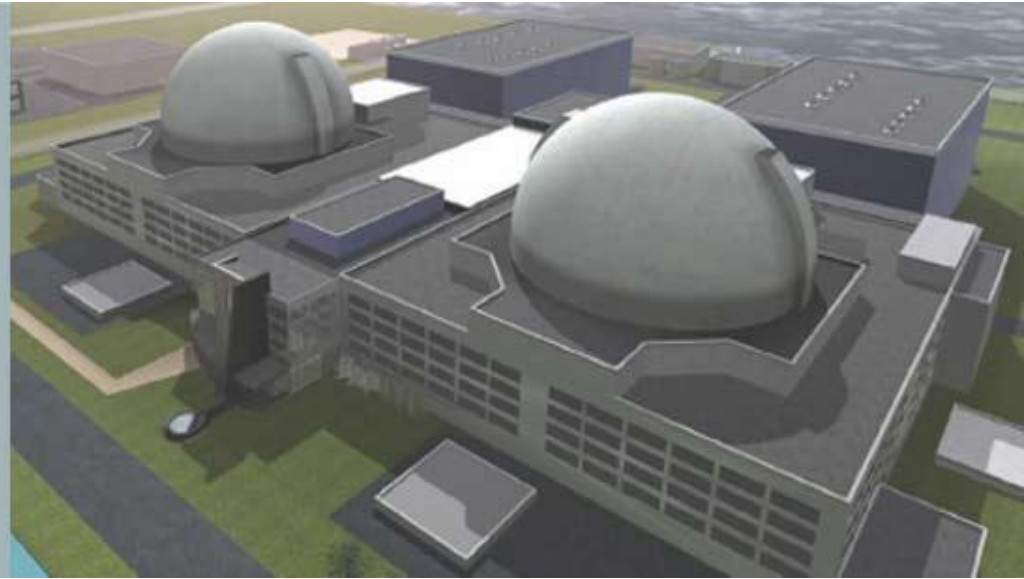


Answer is Nuclear Power

Initial operation to commence by 2016/2017



AECL
Atomic Energy
of Canada Limited





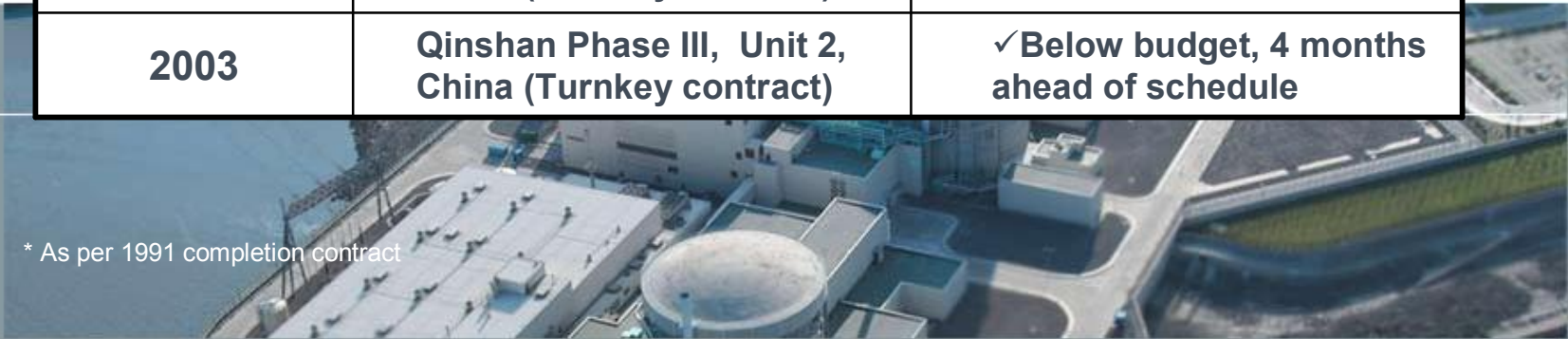
CANDU On-time On-budget

In past 10 years, ALL CANDU 6 plants were built on time and on budget using Team CANDU's project model

No other nuclear vendor matches this record

In-Service Date	Plant	Status
1996	Cernavoda Unit 1, Romania	✓ On budget, on schedule*
1997	Wolsong Unit 2, S. Korea	✓ On budget, on schedule
1998	Wolsong Unit 3, S. Korea	✓ On budget, on schedule
1999	Wolsong Unit 4, S. Korea	✓ On budget, on schedule
2002	Qinshan Phase III, Unit 1, China (Turnkey contract)	✓ Below budget, 6 weeks ahead of schedule
2003	Qinshan Phase III, Unit 2, China (Turnkey contract)	✓ Below budget, 4 months ahead of schedule

* As per 1991 completion contract





Electricity generation to extract oil from the carbonate triangle, potentially 450 billion barrels of bitumen.

Generating hydrogen and electricity for upgrading crude bitumen.

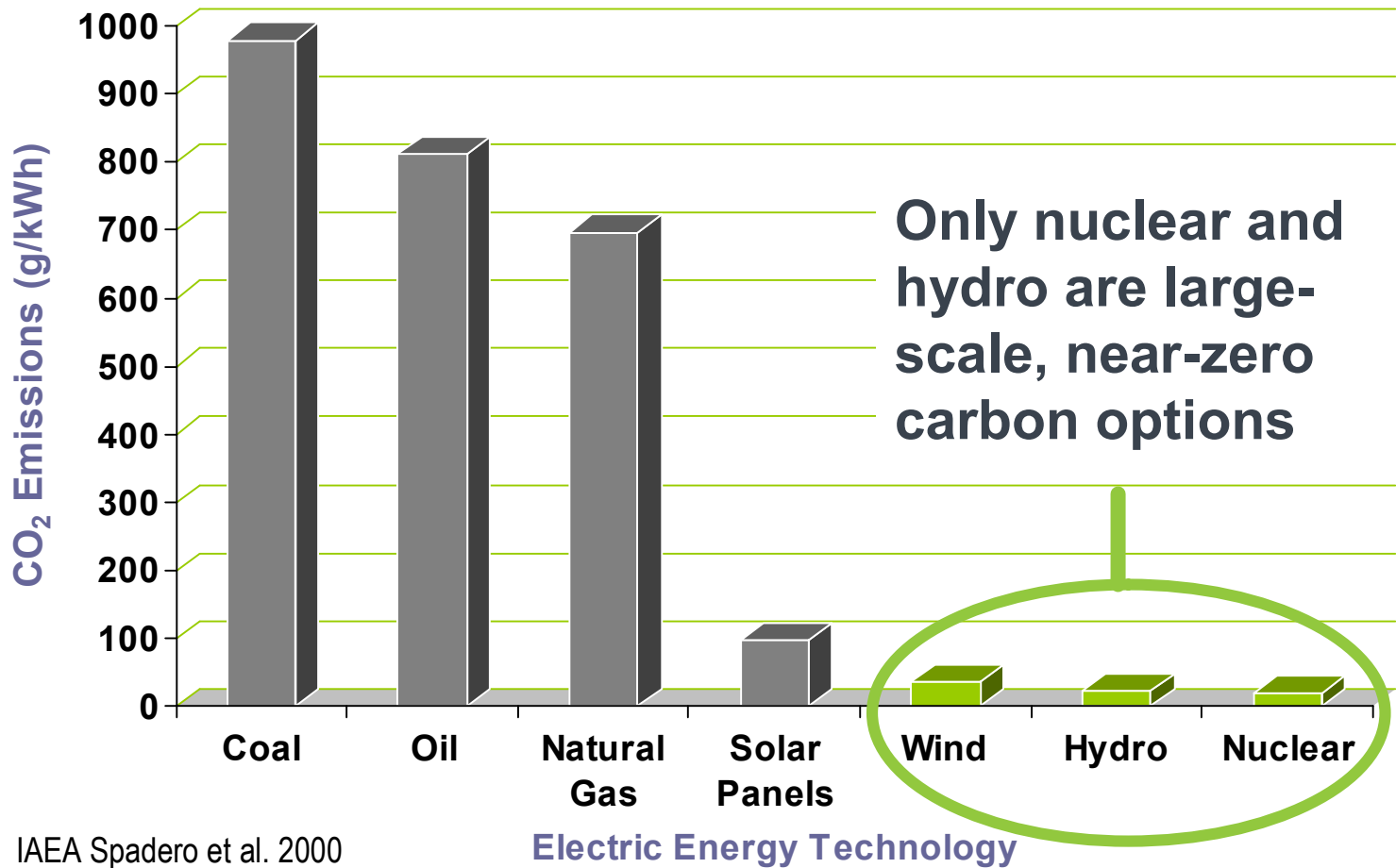
Four-pronged Strategy

Providing steam supply for the SAGD process in the oil sands.

Generating electricity for Alberta utilities



Full Life Cycle CO₂ Emission Studies



Source: IAEA Spadero et al. 2000



Displacement of Greenhouse Gas Emissions

1 ACR-1000



Annual displacement of
5 million tonnes of CO₂
(compared to equivalent gas-fired generation)



over \$100 million savings annually





Sustain Future Growth

- We need support and clear direction from government
- Build Resources



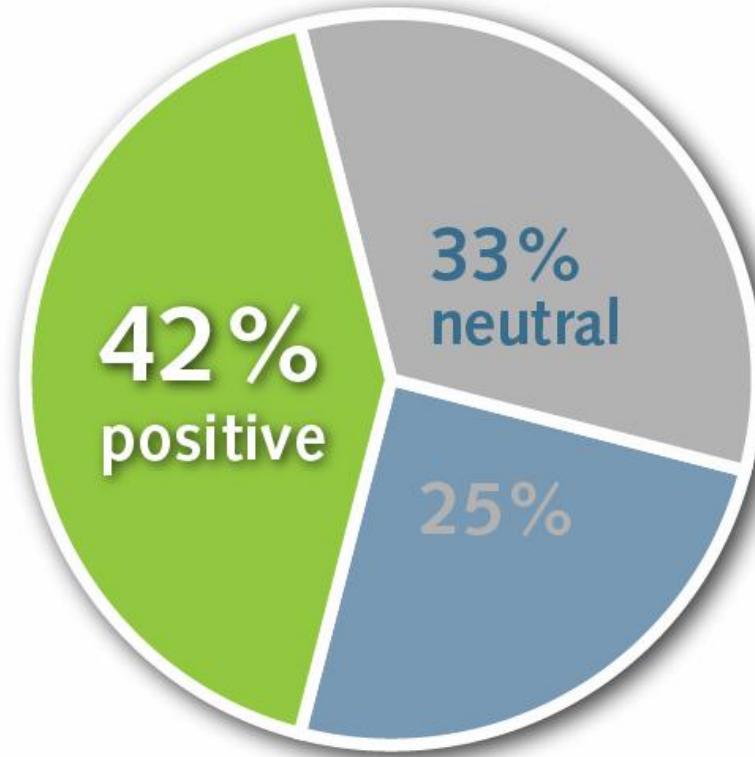


Window of Opportunity





Alberta Supports Nuclear



- Source: Longwoods International, A Nuclear Option for Alberta's Oil Sands: Public Opinion Research, December 14, 2005



A Great Story

We are living in a Nuclear Renaissance



Thank you

