

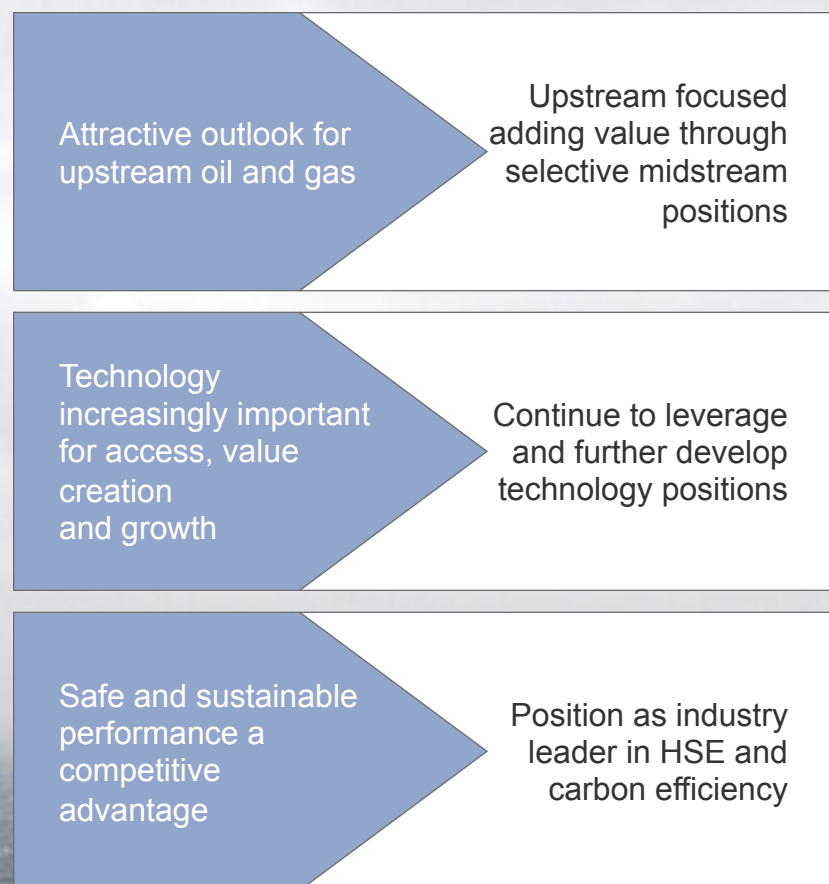


# 2011 Oil Sands Report Card

Lars Christian Bacher, president of Statoil Canada

# Strategic Context

## Unconventionals are key to our strategy



# Statoil in North America

Strategic positions across North America

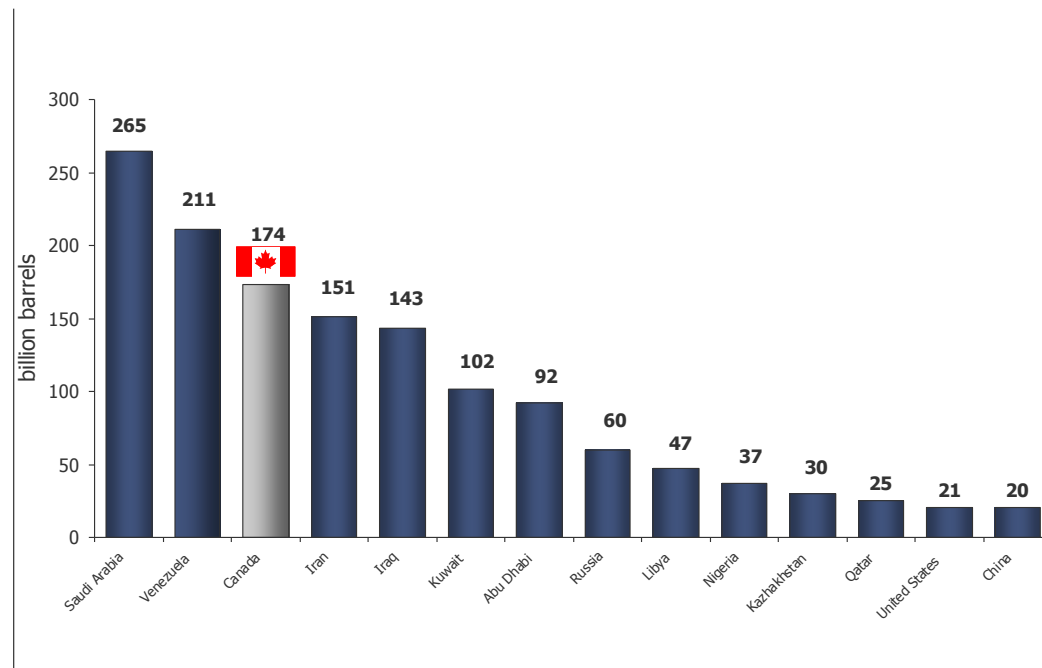


# Substantial resources in Canadian oil sands

## Rationale

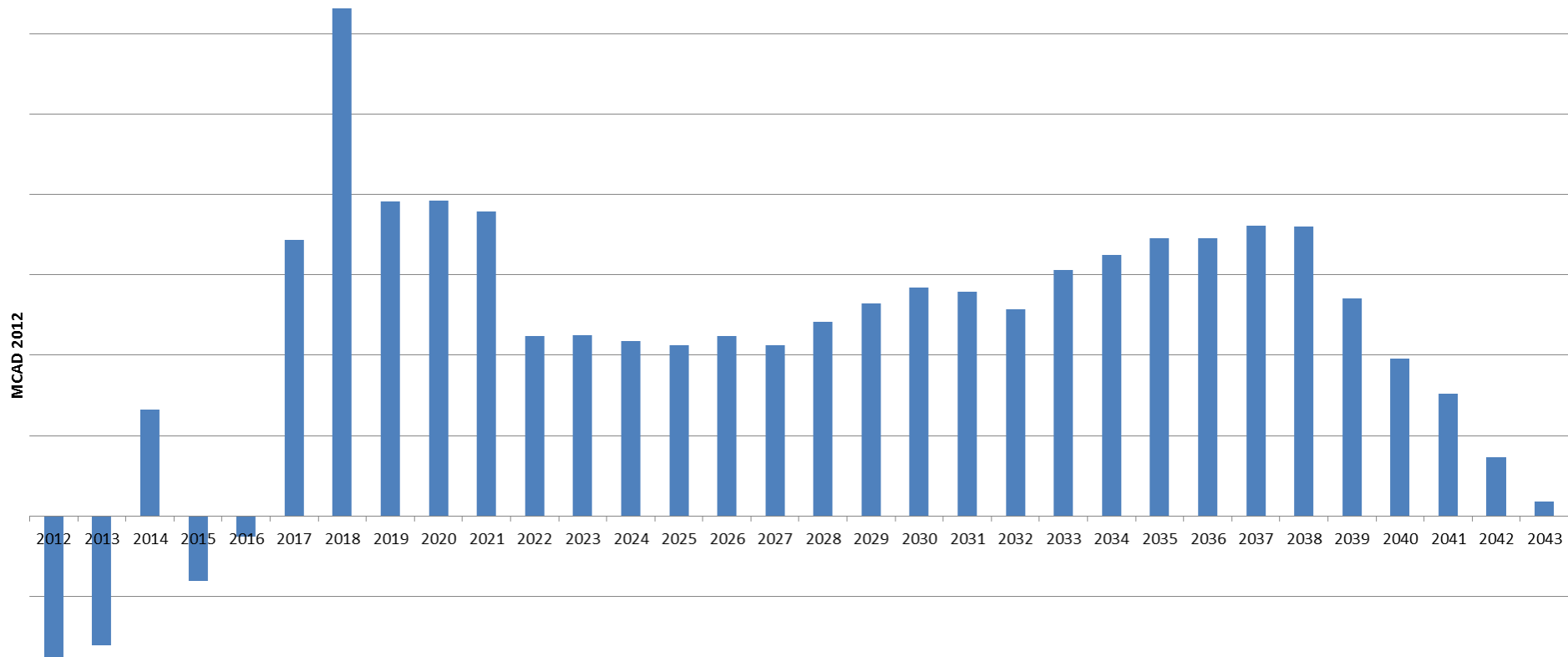
- Significant reserve additions
- Competitive fiscal and royalty regimes
- Strong cash flow
- Technology upside

## Reserves



Source: Canadian Association of Petroleum Producers

# Cash flow for a typical SAGD plant



# Kai Kos Deseh projects



# Leismer Demonstration Project

## SAGD\* facility

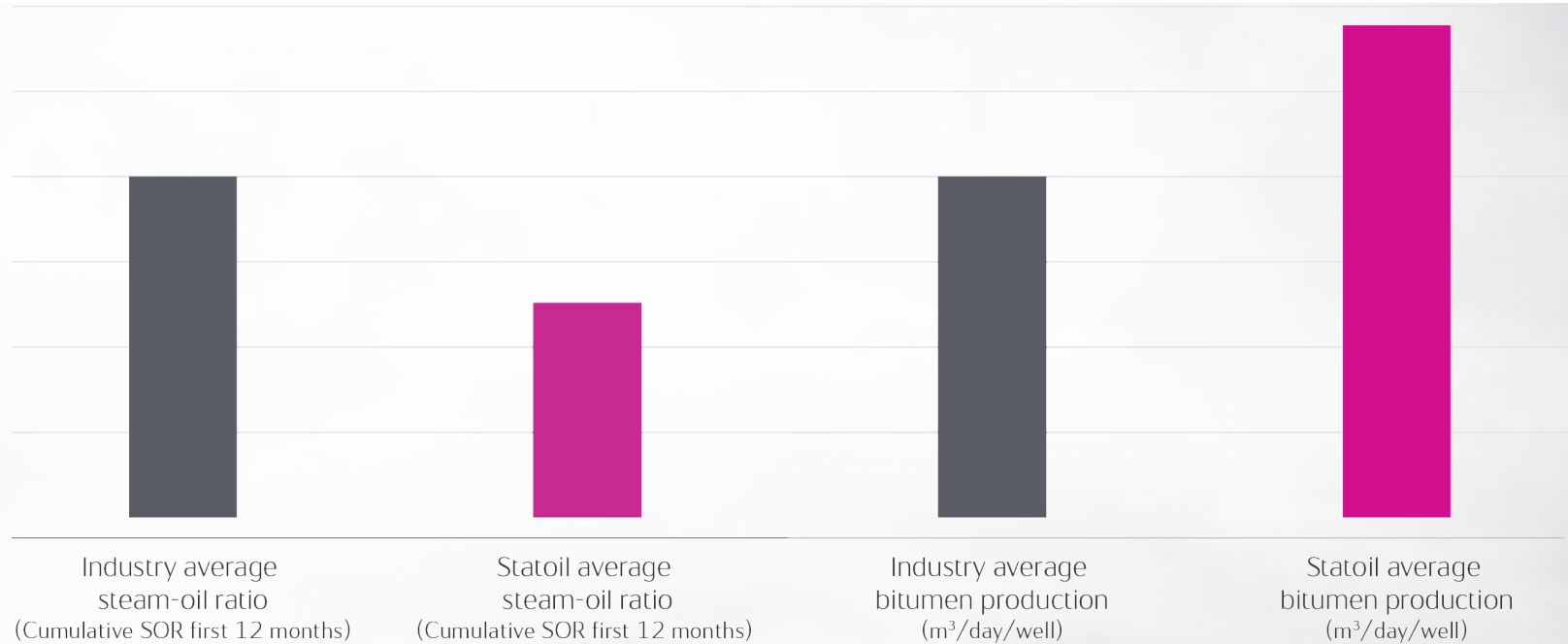
- Rated capacity 18,800 boe/d (based on SOR\*\* 3.0)
- First oil January 2011 (efficient ramp up of production)
- Current production ~ 14,000 boe/d
- More than five million barrels produced to date
- Demonstration plant providing valuable operational experience
- Technology pilots



\* Steam-assisted gravity drainage

\*\* Steam to oil ratio

# Successful start up





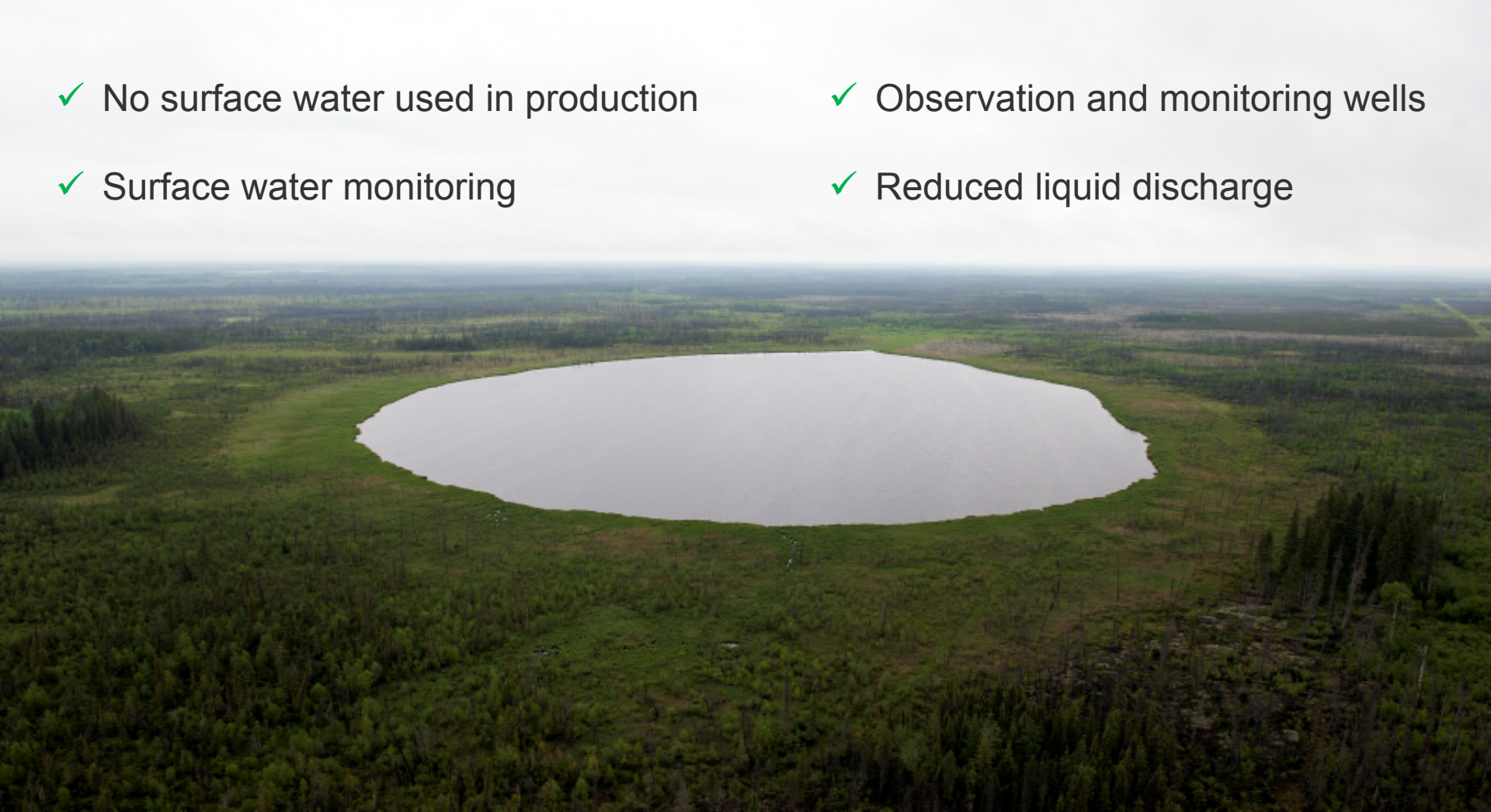
# Land



- ✓ Land reclamation
- ✓ 182 000 seedlings planted in 2011
- ✓ OSLI land stewardship collaboration

# Water

- ✓ No surface water used in production
- ✓ Observation and monitoring wells
- ✓ Surface water monitoring
- ✓ Reduced liquid discharge



# Biodiversity



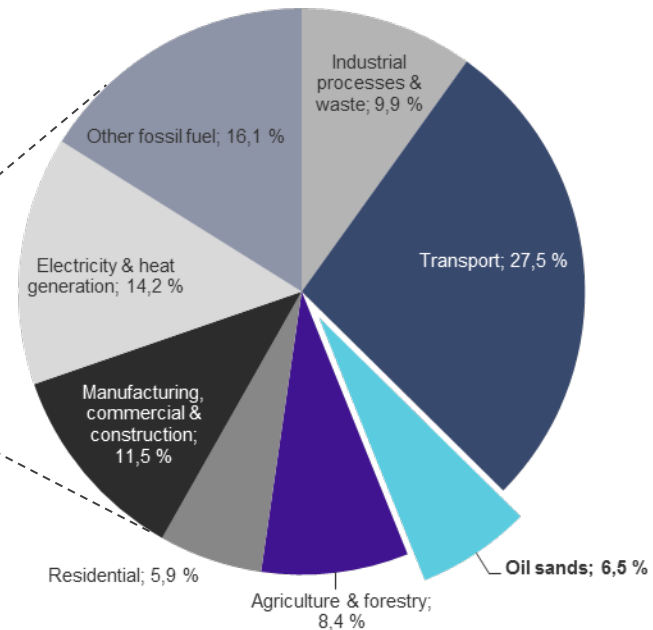
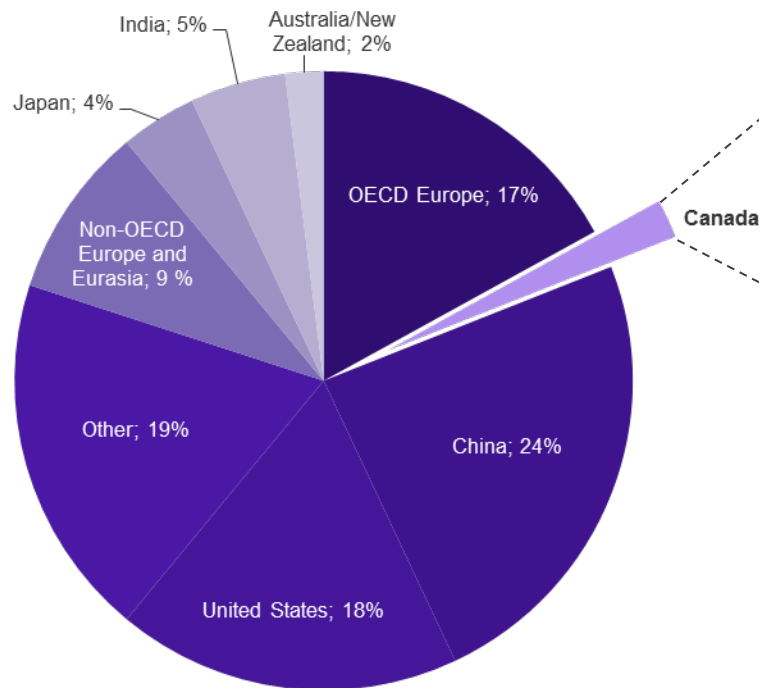
- ✓ Non-linear seismic lines
- ✓ Scat study to evaluate animal population
- ✓ Reclamation

Photo: Paul Tessier

# Global energy-related emissions

Canada's two per cent

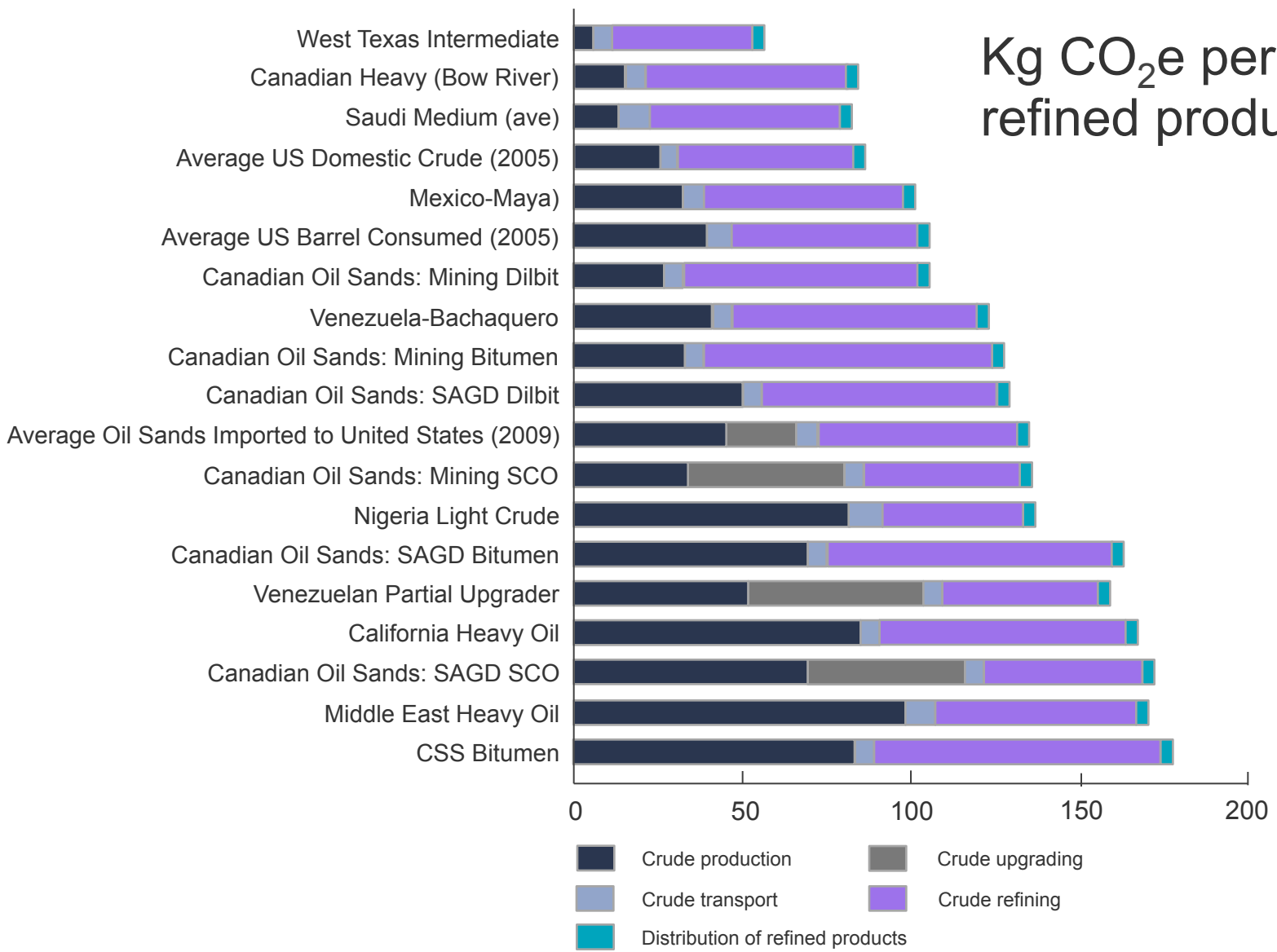
## Global emissions



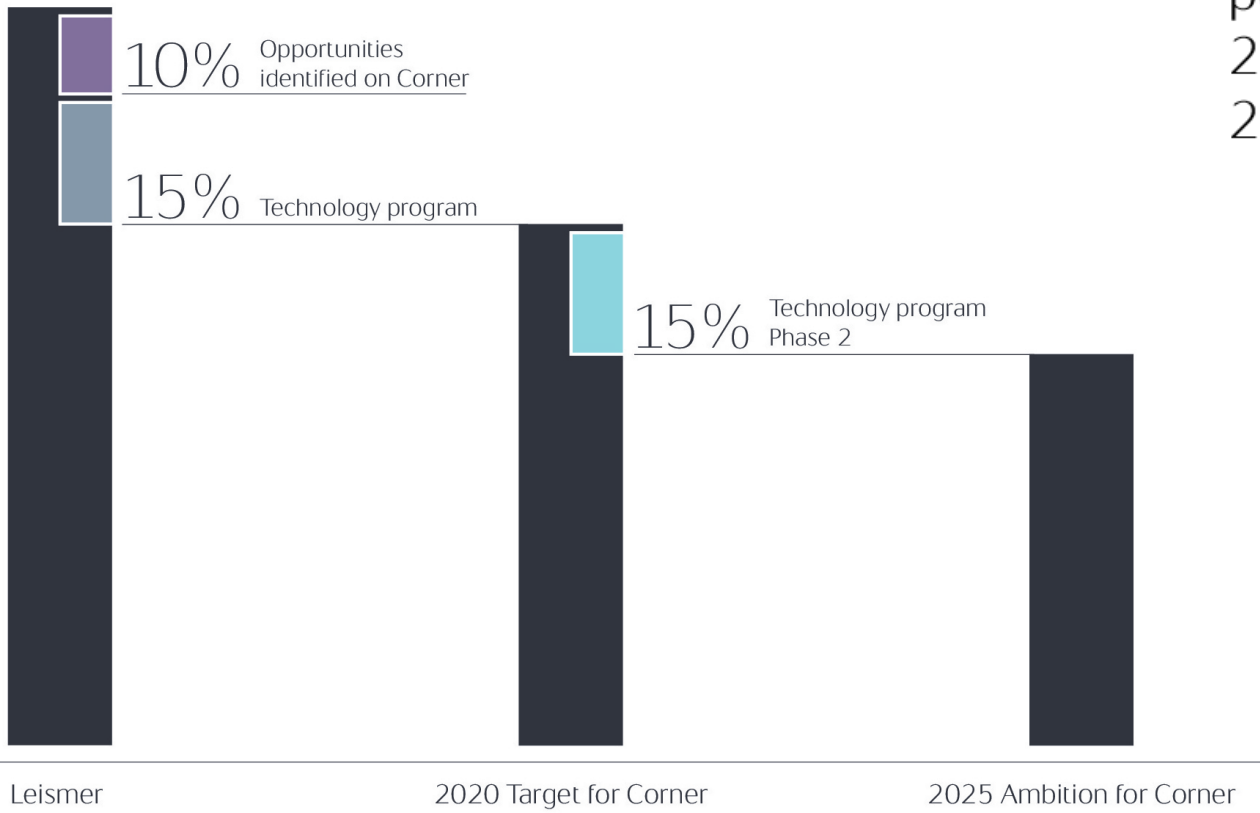
## GHG emissions from oil sands:

- just over 1/1000th of global GHG emissions
- 6.5% of Canada's GHG emissions
- 29% reduction in intensity from 1990

# Kg CO<sub>2</sub>e per barrel refined products

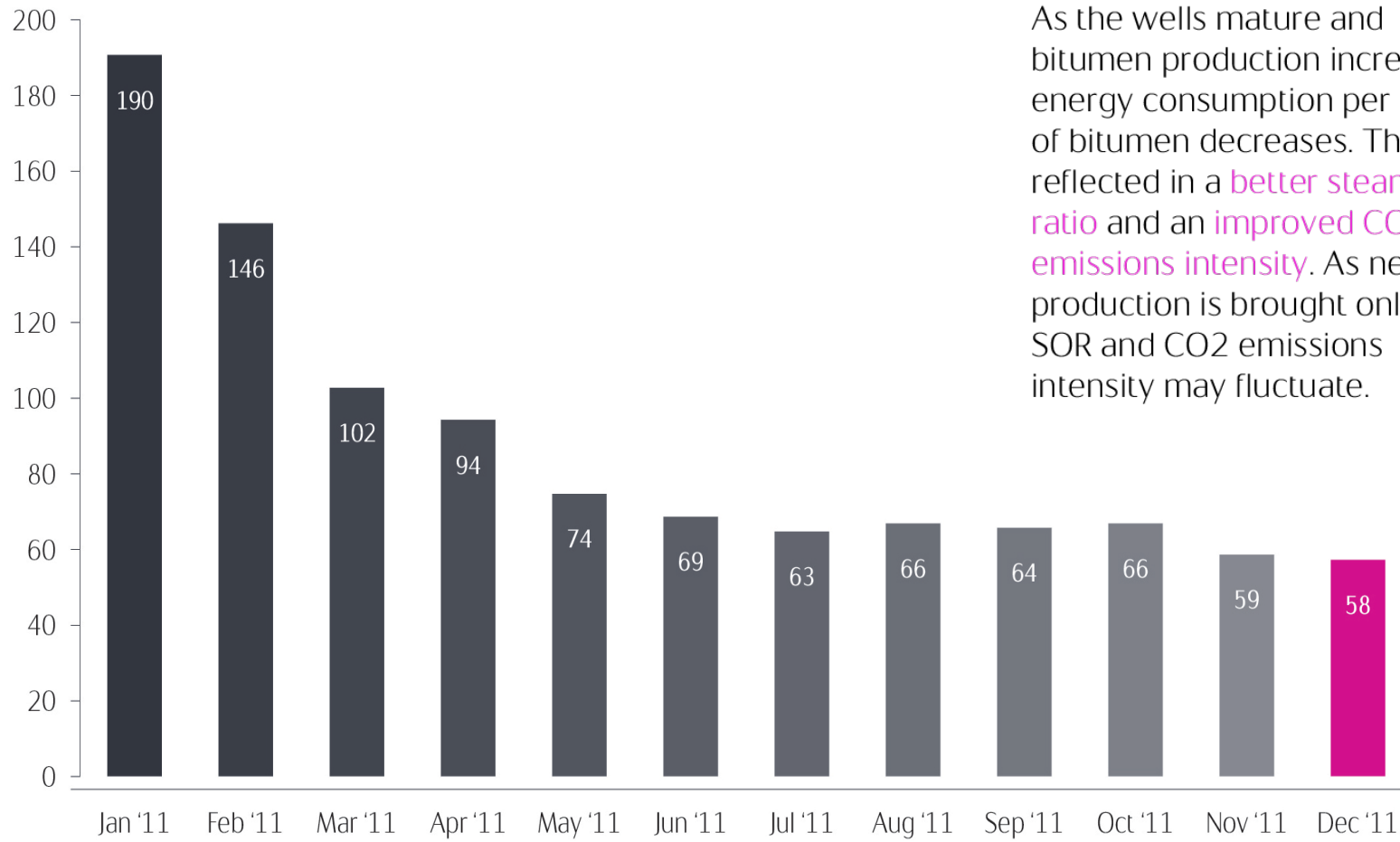


# CO2 Ambition



“Cut CO2 emissions per barrel by 25% by 2020 and 40% by 2025”

# Strong progress during 2011



Our 2011 KPIs represent a shift from our initial startup phase to commercial-scale production. As the wells mature and bitumen production increases, energy consumption per barrel of bitumen decreases. This is reflected in a **better steam-oil ratio** and an **improved CO2 emissions intensity**. As new production is brought online, SOR and CO2 emissions intensity may fluctuate.

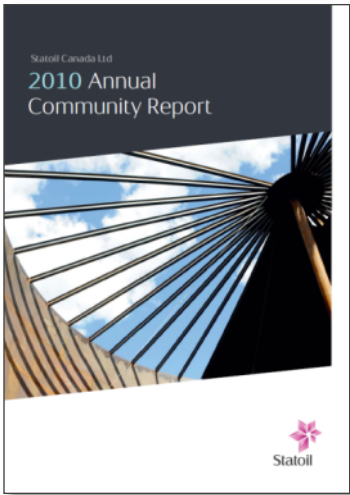
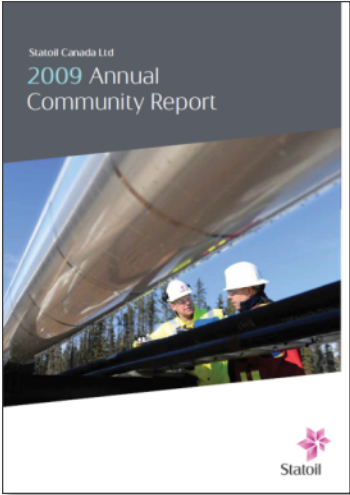
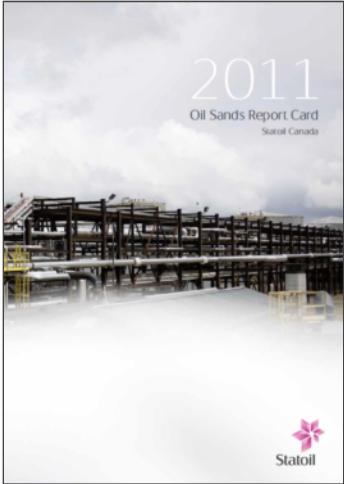
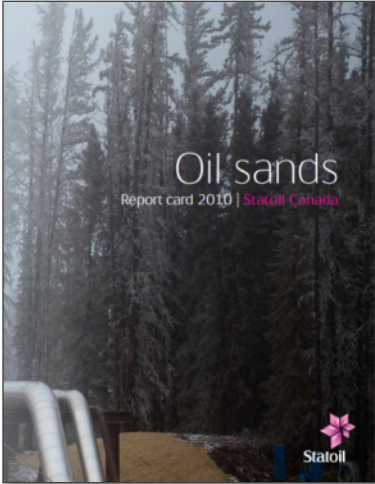
# Working with our neighbours



- ✓ Working with Aboriginal and Metis nations
- ✓ Local Opportunity Centre established
- ✓ Capacity building in Northern Alberta
- ✓ Ski Fit North programme supports youth in local schools



# Committed to transparency



There's never been a better  
time for **good ideas**

2011 Oil Sands Report Card

Lars Christian Bacher  
President, Statoil Canada

[www.statoil.com](http://www.statoil.com)

