Alberta’s Climate Leadership Plan

A progressive climate policy
September 2018
Agenda

- Four climate plan pillars
- Encouraging competitiveness
- Investing responsibly
Four Climate Plan Pillars

1. Capping oil sands emissions
Capping oil sands emissions

Emissions pre and post climate plan implementation

Source: Government of Alberta
Innovation in the oil sands

**Imperial Oil Kearl project**
- began production in 2013 and ramped up in mid-2015 to 220,000 barrels per day
- same life-cycle GHG emissions as other refined US crude grades

**Suncor Fort Hills project**
- came online in 2017
- uses 50 per cent less energy per barrel than a decade ago; plans to reduce another 30 per cent by 2030
- 100 megatonne emissions cap will drive further innovation
- Co-generation facilities and Paraffinic Froth Treatment technology
Four Climate Plan Pillars

2. Putting a price on carbon
Putting a price on carbon

- Two-phased implementation
  - $20 per tonne in 2017
  - $30 per tonne in 2018
- Reinvesting into initiatives which reduce emissions and support adaptation and transition to a lower carbon economy.
Innovation in the oil sands

$1.4 BILLION
over the next several years

$440 million to Oil Sands Innovation Fund
$400 million to Green Loan guarantees
$240 million to Industrial Energy Efficiency
$225 million to support emissions-reducing technologies

Investing in new technologies through Emissions Reduction Alberta to reduce emissions per barrel in concert with industry

Announced $70 million in support for nine oil sands technologies that will leverage a combined project value of more than $720 million
Four Climate Plan Pillars

3. Ending coal pollution and developing more renewable energy
Phasing out coal and tripling renewables

- **Renewable Electricity Program**
  - 30 per cent target of renewable energy by 2030
  - First round of competition will provide 600 megawatts of electricity
  - Second and third rounds expected to provide 700 megawatts of electricity
    - Include a minimum Indigenous equity ownership component

- **Phase out all coal pollution by 2030**
  - Allow coal units to convert to natural gas where economically viable
Four Climate Plan Pillars

4. Reducing methane emissions
Reducing methane emissions

• Applying new emissions design standards to new Alberta facilities
• Improving measurement and reporting of methane emissions
• Developing a joint initiative on methane reduction and verification for existing facilities, and backstopping this with regulated standards
Invest in the best barrel.
Invest in Alberta.
# 2017 world energy market

<table>
<thead>
<tr>
<th>Rank</th>
<th>Producer of oil</th>
<th>Reserves of crude oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Russia</td>
<td>Venezuela</td>
</tr>
<tr>
<td>2</td>
<td>Saudi Arabia</td>
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<td>10</td>
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Thank you