cleanBC
our nature. our power. our future.
Continued economic growth and reconciliation

- Clean growth policy grows the economy and creates jobs
- Clean tech supports climate targets

Emission reductions and resilient communities

- Demonstrates how climate and energy policy make our province clean, affordable, inclusive of indigenous peoples and supports a strong, diverse economy
- Low cost/clean/reliable electricity supports climate targets and creates demand for B.C. products

Expanded clean energy production and use

- Low cost/clean/reliable energy powers clean growth
- Economic growth drives demand for clean energy

cleanBC
1. Outlines B.C.’s plan to reach our 2030 climate targets

2. Lays out actions that credibly reduce our emissions, with sector-by-sector approach to transportation, buildings, and industry

3. Is fully funded, with program specific details in the 2019/2020 Budget
WHAT’S IN CLEANBC

• Moving to lower carbon substitutes including clean electricity
• Partnering with business to create a low-carbon industrial strategy
• Clear path to 2030 emissions reduction targets: 40% below 2007
  • describing specific GHG reductions for first 75% of reductions
  • remaining 25% to be identified over the next 18-24 months

• **18.9 Mt of GHG reductions:**
  • 6.0 Mt reduced from cleaner transportation initiatives
  • 2.0 Mt reduced from improving where we live and work
  • 8.4 Mt reduced from cleaner industry initiatives
  • 0.7 Mt reduced from waste
  • 1.8 Mt reduced from carbon pricing
REACHING OUR 2030 TARGETS

Pathway to meeting our climate goals

Million tonnes CO₂e (Mt CO₂e)


Past Emissions

Business as Usual

Buildings & Communities

Transportation

Industry

Future CleanBC Actions

Today's CleanBC Actions

25% Remaining

30 35 40 45 50 55 60 65 70
FULLY FUNDED IN BUDGET 2019

$679m for CleanBC initiatives

+ $223m supplement to the Climate Action Tax Credit

= $902m total CleanBC commitment (over ten years)

Contingency $299m additional funding
FOCUSING ON AFFORDABILITY

• Enhanced climate action tax credit ($40 million) – up to $135 per adult, $40 per child. Credit will be further enhanced in coming years

• Reducing carbon pollution in a way that puts people first -- because people need to manage their budgets
  • Helping people make home energy efficiency improvements to cut their energy use and costs
  • Expanding incentives for zero-emissions vehicles and making rebates more accessible

• Ongoing commitment to ensure CleanBC programs and incentives are accessible, effective and help those who need them the most
ELECTRIFYING KEY SECTORS

• Meeting our targets means electrifying key sectors
  • Including housing, transportation, industry

• By 2030, CleanBC policies will require an additional 4,000 gigawatt-hours of electricity
  • This demand is over and above projected BC Hydro demand growth
  • It is equivalent to an 8% increase, and roughly the same as the electricity demand for the City of Vancouver
  • Existing and planned projects that harness B.C.’s vast wealth of clean, renewable power can meet this growth

• Meeting our 2040 and 2050 targets will require substantial additional volumes of new clean electricity
# CLEANER TRANSPORTATION

<table>
<thead>
<tr>
<th>Bring down the price of clean vehicles</th>
<th>Just over 20 years from now, every new car will be a zero-emission vehicle (ZEV) with phased-in increases to the ZEV standard</th>
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<tbody>
<tr>
<td></td>
<td>Help people to afford cleaner cars and save money on gasoline bills with ZEV incentives</td>
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<td></td>
<td>Make it easier to charge or fuel a ZEV</td>
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<tr>
<td>Speed up the switch to cleaner fuels</td>
<td>Make our fuel cleaner by increasing the low carbon fuel standard to 20% by 2030 and increasing the production of renewable transportation fuels</td>
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<td>Make vehicles run cleaner by increasing tailpipe emissions standards for vehicles sold after 2025</td>
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## IMPROVE WHERE WE LIVE AND WORK

### Better buildings
Make every building more efficient by improving the Building Code and increasing efficiency standards

### Support for better buildings
- Incentives to make homes more energy-efficient and heat pumps more affordable
- Upgrade public housing to make it more comfortable and energy-efficient
- Make residential natural gas consumption cleaner by putting in place a minimum requirement of 15% to come from renewable gas

### Support for communities
Help remote communities reduce dependence on diesel and support public infrastructure efficiency upgrades and fuel switching to biofuels with the CleanBC communities fund
## CLEANER INDUSTRY

<table>
<thead>
<tr>
<th>Initiative</th>
<th>Description</th>
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<tbody>
<tr>
<td>Ramp up the CleanBC program for industry</td>
<td>Direct a portion of B.C.’s carbon tax paid by industry into incentives for cleaner operations</td>
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<tr>
<td>Improve air quality by cutting air pollution</td>
<td>Clean up air pollution in the lower mainland with a pilot project to test options to switch 1,700 freight trucks to cleaner or zero-emission fuel</td>
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<tr>
<td>Reduce methane emissions from natural gas development</td>
<td>Reduce methane emissions from upstream oil and gas operations by 45%</td>
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<tr>
<td>Industrial electrification</td>
<td>Provide clean electricity to planned natural gas production in the Peace region</td>
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<td></td>
<td>Increase access to clean electricity for large operations with new transmission lines and interconnectivity to existing lines</td>
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<tr>
<td>Carbon capture and storage</td>
<td>Ensure a regulatory framework for safe and effective underground CO₂ storage and direct air capture</td>
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<tr>
<td>Cleaner fuels for industry</td>
<td>Make industrial natural gas consumption cleaner with a minimum 15% to come from renewable gas</td>
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</table>
## REDUCE EMISSIONS FROM WASTE

<table>
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<tr>
<th><strong>Reduce waste and turn it into a clean resource</strong></th>
<th>Help communities to achieve 95% organic waste diversion for agricultural, industrial, and municipal waste -- including systems in place to capture 75% of landfill gas</th>
</tr>
</thead>
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<td></td>
<td>Waste less and make better use of it across all sectors of our economy, like forestry, agriculture, and residential areas, including renewing the B.C. Bioenergy Strategy and building out the bioenergy and biofuels cluster</td>
</tr>
</tbody>
</table>
LOW CARBON INDUSTRIAL STRATEGY

• Partnership between Province and Business Council of British Columbia
• Position the province as a global supplier of choice for low-carbon goods, services and technologies in domestic and global markets
• Focus areas:
  • Competitiveness
  • Branding and communications
  • Regulatory Functions
  • Technology, Innovation and Infrastructure
CREATING NEW OPPORTUNITIES

CleanBC training and retraining for new and mid-career workers

• Trades training for the construction industry
• ZEV training for mechanics and electricians
• Ongoing labour market analysis will support further initiatives

CleanBC Labour Readiness Plan

• Will examine future career opportunities in the low carbon economy - where jobs may be located, supports needed, and opportunities for mid-career workers to develop new skills
Comprehensive reports under the *Climate Change Accountability Act*:

- table in the Legislature an annual report of spending, program results and anticipated reductions from the previous year
- forecast emissions for three years in the future, based on strategic initiatives and modelling
- publish emissions results as we get the information

The independent Climate Solutions and Clean Growth Advisory Council will provide a review of government’s progress in reducing emissions as well as advice on future actions. Their first report will be available in 2019.
The remaining 6.1 Mt in reductions achieved through initiatives such as:

- improving community planning, active transportation, and transit
- cleaner heavy-duty vehicles and freight
- significantly increasing industrial electrification
- maintaining a resilient agricultural sector
- continuing to invest in technology and innovation.
WORK WILL CONTINUE IN 2019

By 2020, province will develop a new strategy to manage climate-related risks

• Early work underway in partnership with local governments and First Nations to address impacts
• 2 reports calling for stronger actions
• BC undertaking a provincial strategic climate risk assessment to lay foundation for future efforts – to inform priorities areas and new strategy
• Indigenous engagement and public consultation opportunities coming in 2019
QUESTIONS?