



cleanBC

our nature. our power. **our future.**



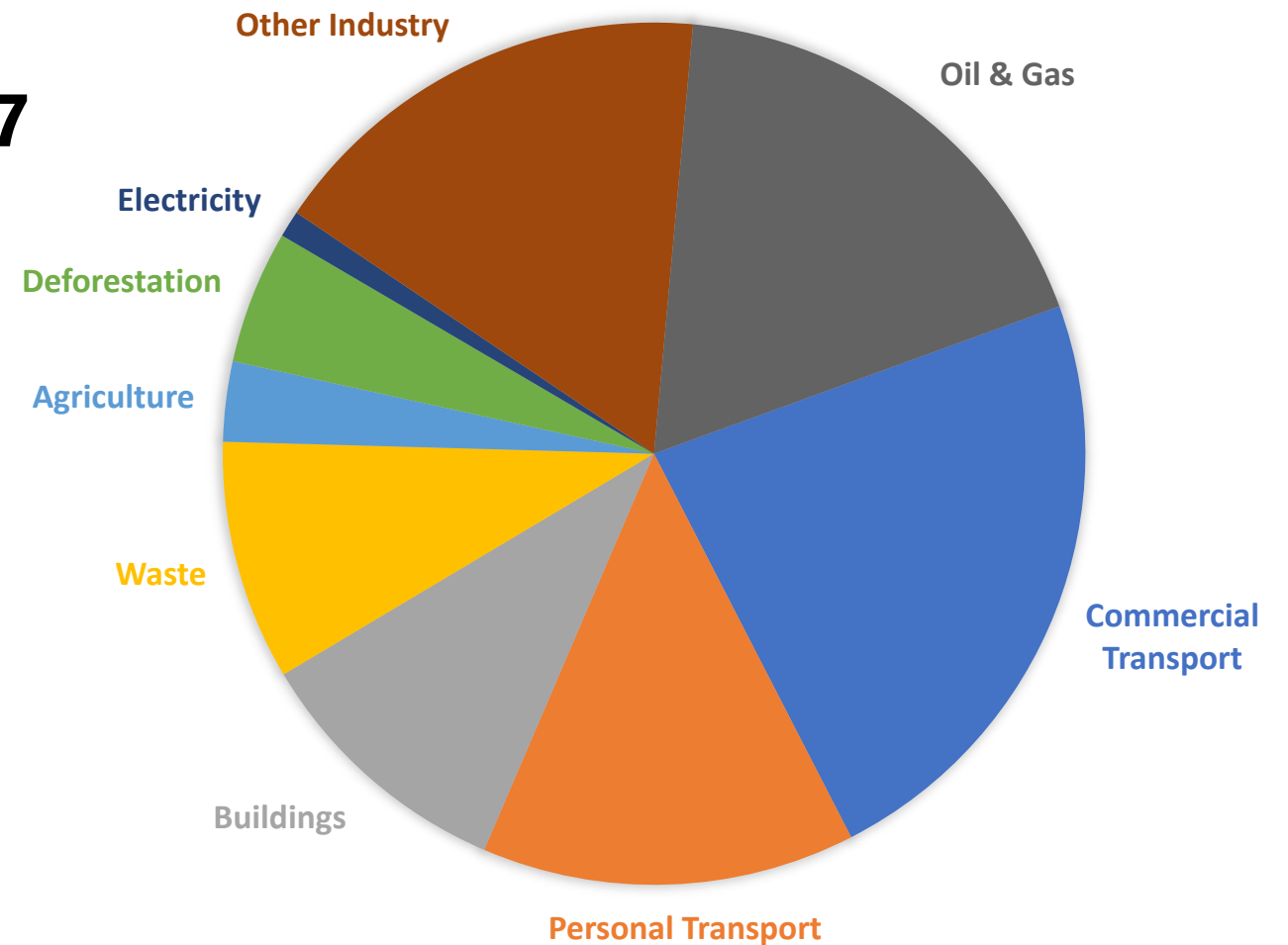
- 1 Outlines B.C.'s plan to reach our 2030 climate targets
- 2 Lays out actions that credibly reduce our emissions, with sector-by-sector approach to transportation, buildings, and industry
- 3 Is fully funded, with program specific details in the 2019/2020 Budget

BC'S EMISSIONS PROFILE

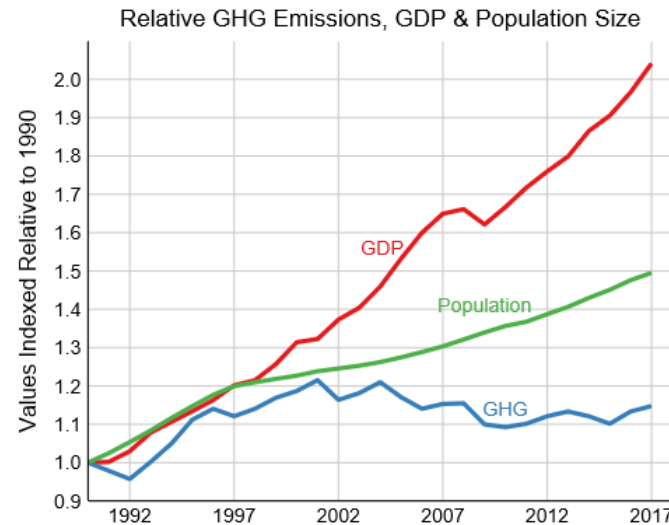
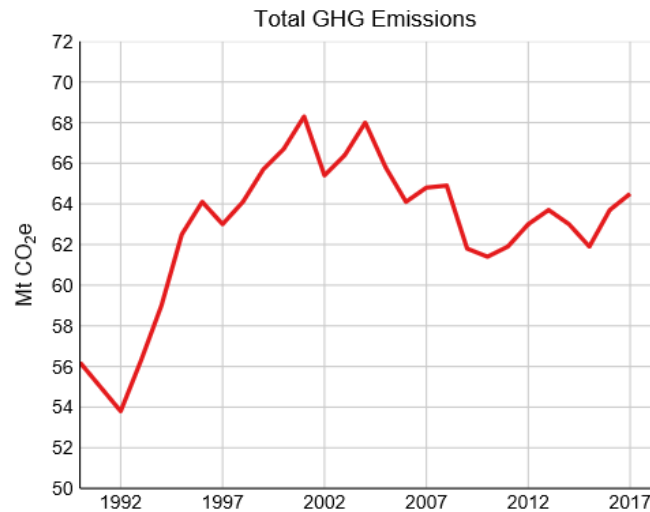


64.5 million tonnes CO₂e in 2017

- ~95% hydroelectricity
- No coal-fired electricity
- Limited heavy manufacturing
- Largest sector is transportation
- Growing natural gas sector

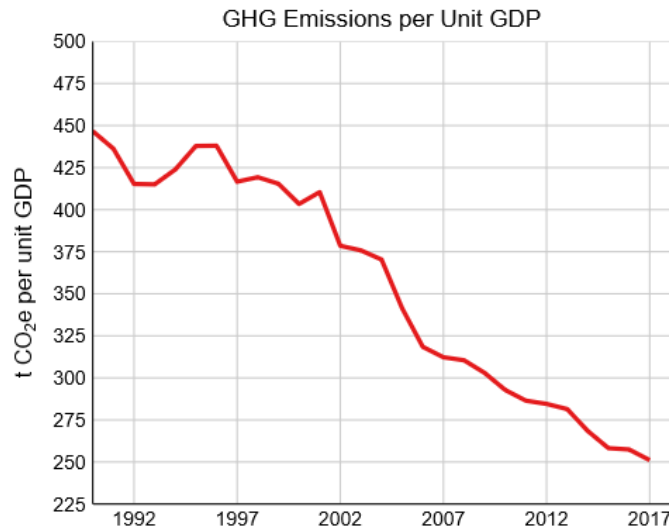
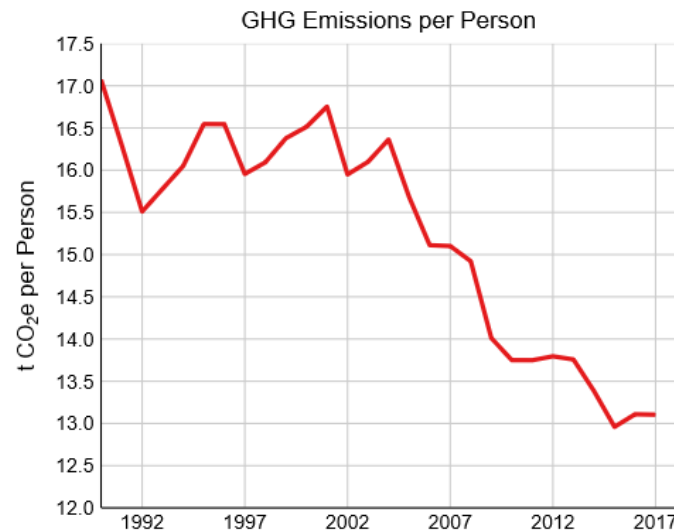


PROGRESS TO REDUCE EMISSIONS



GHG emissions per capita:
15 tCO₂ in 2007
13 tCO₂ in 2017

GHG emissions / \$1M GDP:
305 tCO₂ in 2007
251 tCO₂ in 2017



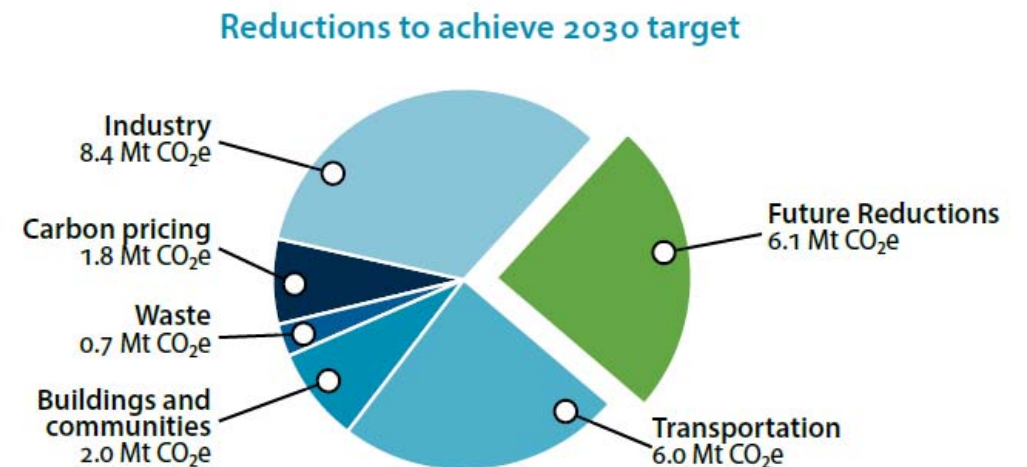
WHAT'S IN CLEANBC



- 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 within 2 years of release of the plan

- **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



WHAT'S IN CLEANBC



Desired outcomes of CleanBC:

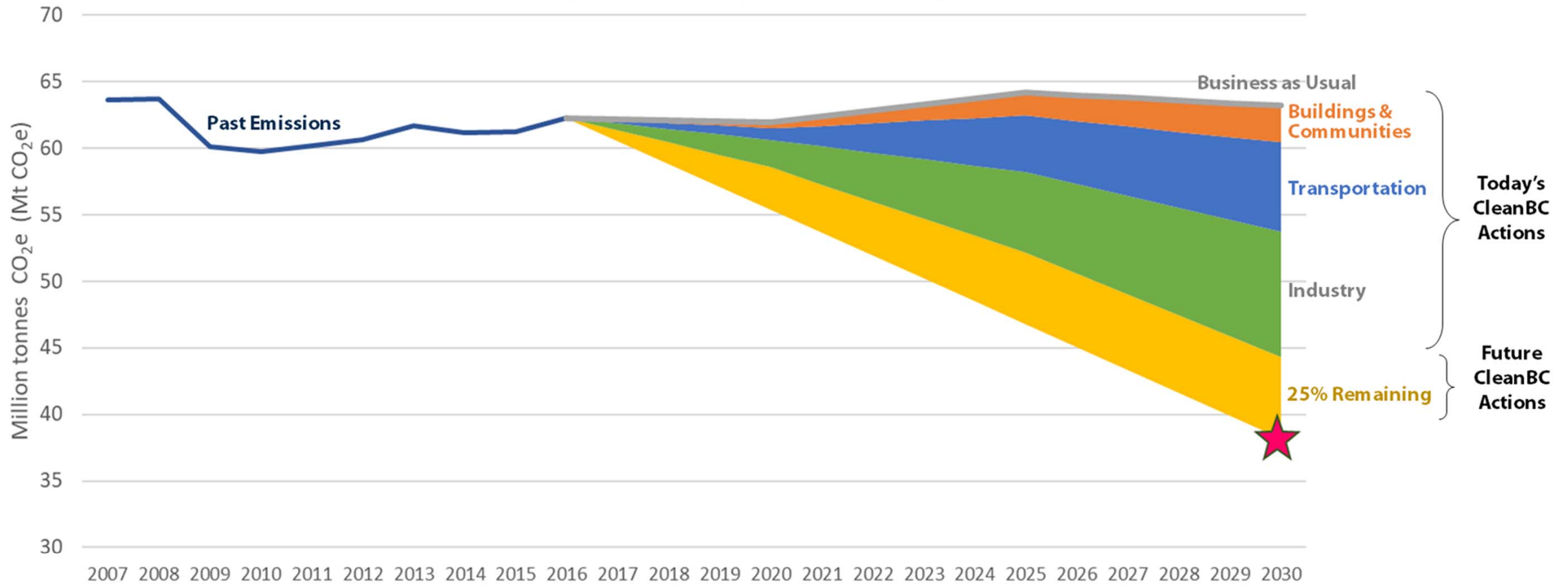
- Meeting our GHG reduction targets
- Growing a prosperous low-carbon economy
- Making sure cleaner options are affordable
- Creating more opportunities for businesses
- Helping workers get the skills they need



REACHING OUR 2030 TARGETS



Pathway to meeting our climate goals



CLEANER TRANSPORTATION – 6.0 Mt



Bring down the price of clean vehicles

Just over 20 years from now, every new car will be a zero-emission vehicle (ZEV) with phased-in increases to the ZEV standard

Help people to afford cleaner cars and save money on gasoline bills with ZEV incentives

Make it easier to charge or fuel a ZEV

Speed up the switch to cleaner fuels

Make our fuel cleaner by increasing the low carbon fuel standard to 20% by 2030 and increasing the production of renewable transportation fuels

Make vehicles run cleaner by increasing tailpipe emissions standards for vehicles sold after 2025

IMPROVE WHERE WE LIVE AND WORK – 2.0 Mt

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 – 8.4 Mt



Ramp up the CleanBC program for industry	Direct a portion of B.C.'s carbon tax paid by industry into incentives for cleaner operations
Improve air quality by cutting air pollution	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
Reduce methane emissions from natural gas development	Reduce methane emissions from upstream oil and gas operations by 45%
Industrial electrification	Provide clean electricity to planned natural gas production in the Peace region Increase access to clean electricity for large operations with new transmission lines and interconnectivity to existing lines
Carbon capture and storage	Ensure a regulatory framework for safe and effective underground CO ₂ storage and direct air capture
Cleaner fuels for industry	Make industrial natural gas consumption cleaner with a minimum 15% to come from renewable gas

REDUCE EMISSIONS FROM WASTE – 0.7 Mt



Reduce waste and turn it into a clean resource

Help communities to achieve 95% organic waste diversion for agricultural, industrial, and municipal waste -- including systems in place to capture 75% of landfill gas

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

FOCUSING ON AFFORDABILITY



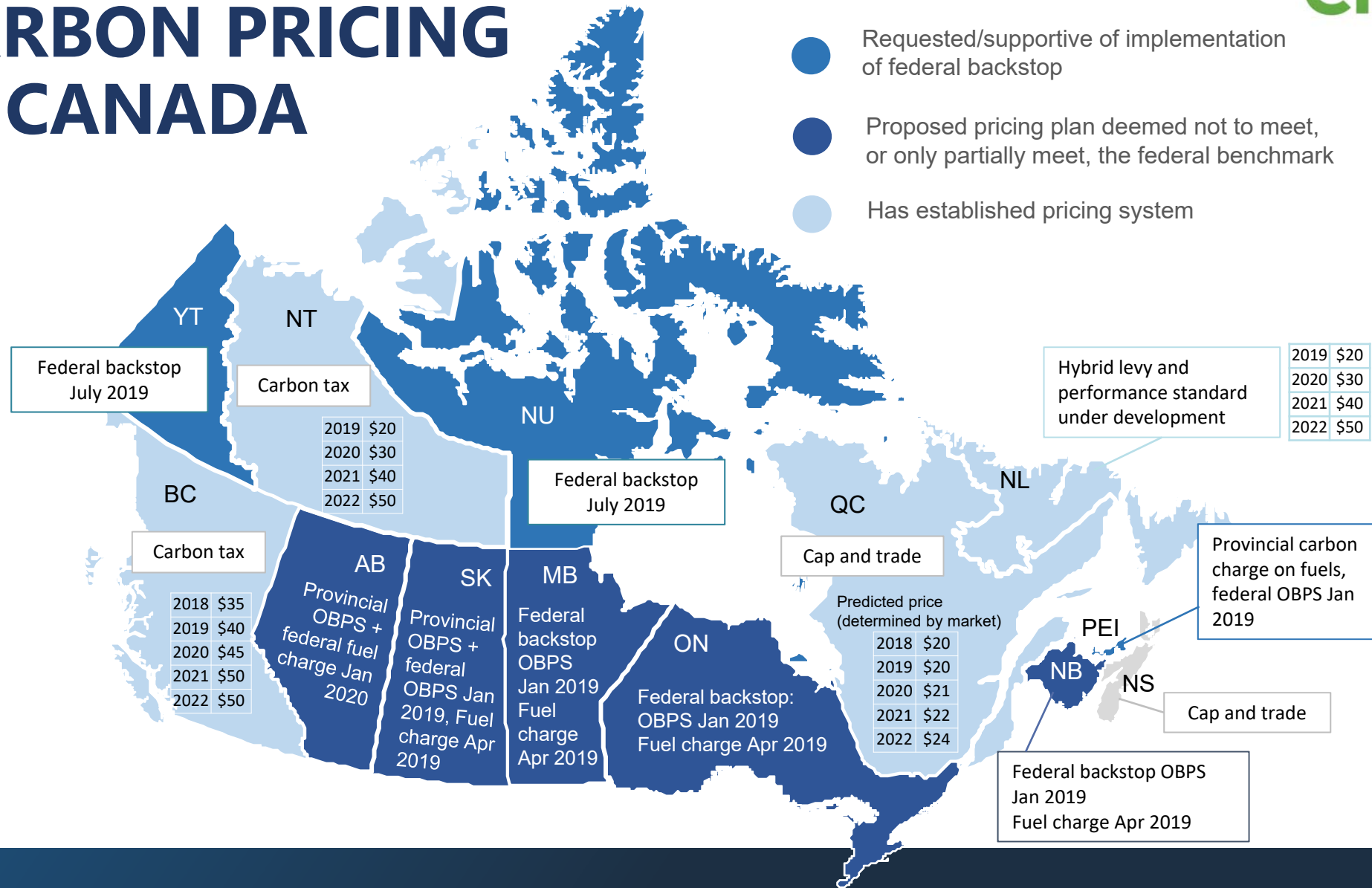
- Enhanced climate action tax credit (\$40 million) – up to \$154 per adult, \$45 per child. Credit will be further enhanced in coming years
- Reducing carbon pollution in a way that puts people first -- because people need to manage their budgets
 - Helping people make home energy efficiency improvements 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

BRITISH COLUMBIA CARBON TAX

CONTEXT: CARBON PRICING IN CANADA



- Developing a carbon pricing plan to meet the federal benchmark
- Requested/supportive of implementation of federal backstop
- Proposed pricing plan deemed not to meet, or only partially meet, the federal benchmark
- Has established pricing system

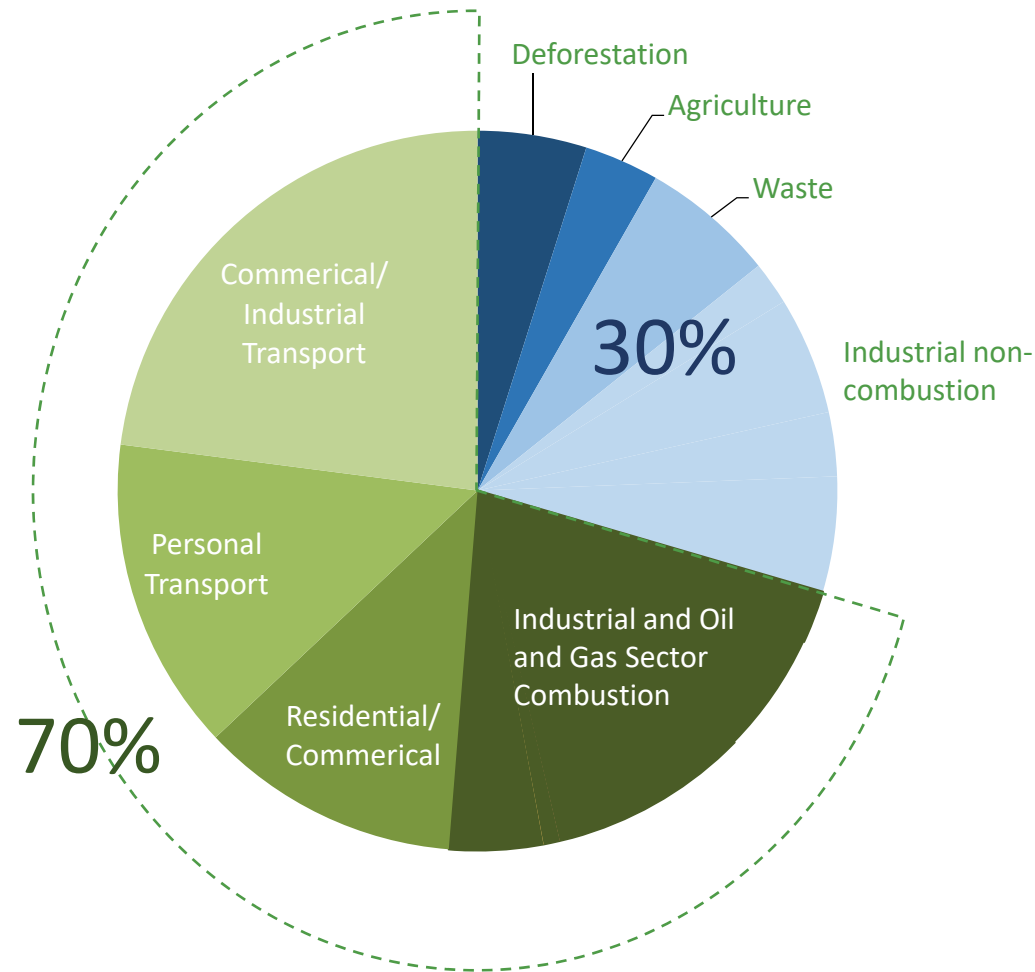


BC'S REVENUE-NEUTRAL CARBON TAX



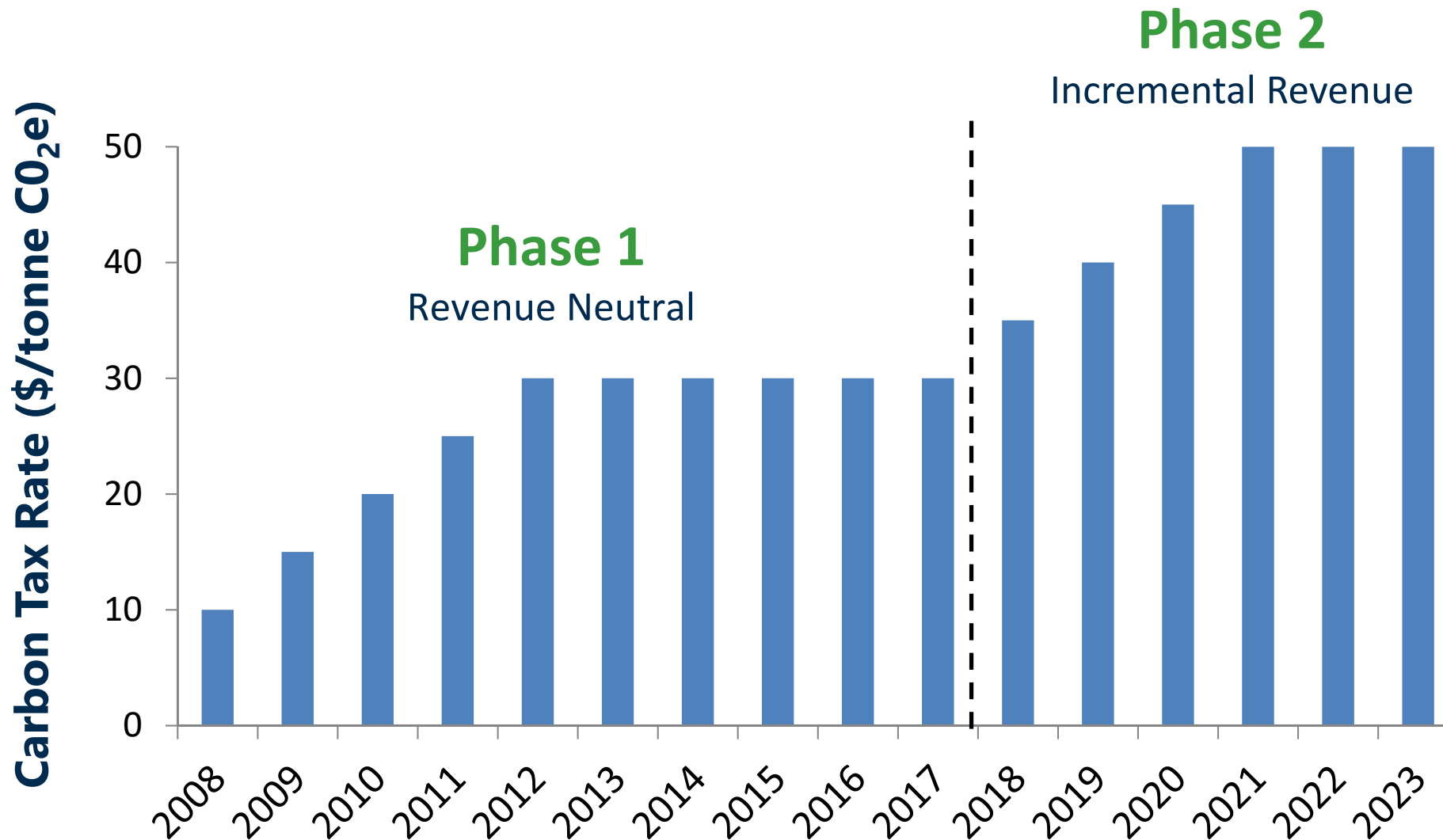
- In 2008, BC launched North America's first revenue-neutral carbon tax.
- Carbon tax principles:
 - Tax shift – from income / investment to pollution
 - Tax rates started low and increased gradually
 - Lower income individuals and families protected
 - Broadest possible base
 - Integrated with other climate action measures

CARBON TAX COVERAGE



- Carbon tax applies to approximately 70% of BC emissions
- Emissions excluded:
 - Fugitive sources 7%
 - Industrial process 6%
 - Agriculture (non-combustion) 3%
 - Waste decomposition 6%
 - Afforestation and Deforestation 6%

CARBON TAX PHASING



- Most recent increase: April 1, 2019, from \$35 to \$40 per tCO₂e.
- The tax rate will increase each year by \$5 per tonne until it reaches \$50 per tonne in 2021.

CARBON TAX INCREMENTAL REVENUE



For 2016/2017 fiscal year the carbon tax collected was \$1.2 billion.

The approximate use for incremental revenue split was:

- 35% returned to individuals
- 65% returned to business

- **Individuals** paid approximately **27%** of carbon tax revenues
- **Business** paid approximately **70%** of carbon tax revenues
- **Government Institutions** paid approximately **3%** of carbon tax revenues

CARBON TAX INCREMENTAL REVENUE




Revenues generated from increasing the carbon tax will be used to:

- Provide carbon tax relief and protect affordability
- Maintain industry competitiveness
- Encourage new green initiatives

BC offers [tax carbon programs](#) for businesses and local government

CleanBC Program for industry: directs an amount equal to the incremental carbon tax paid by industry above \$30/tonne into incentives for cleaner operations.

- [CleanBC Industrial Incentive](#)
- [CleanBC Industry Fund](#)

A scenic landscape featuring a calm lake reflecting the surrounding mountains and a clear blue sky. In the foreground, two people are silhouetted as they stand on a log, looking out over the water. The mountains in the background are partially covered in snow, and the sky is a deep, clear blue with a few wispy clouds.

cleanbc.gov.bc.ca

THANK YOU!

QUESTIONS?