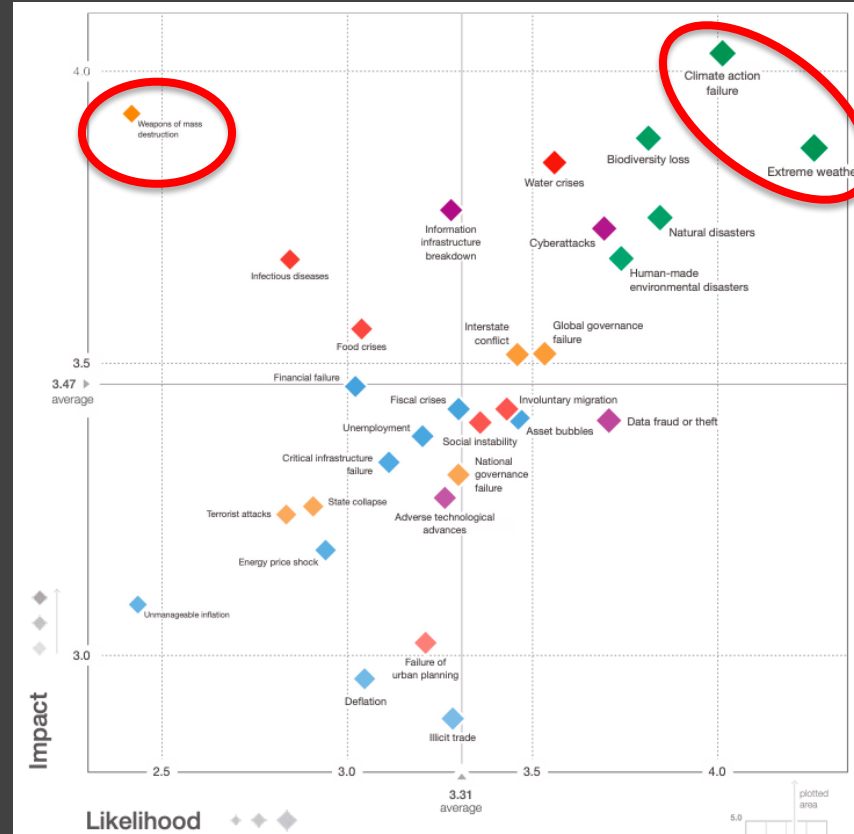


The background of the slide is a photograph of an industrial facility, likely a refinery or chemical plant. Several tall, dark smokestacks are visible, each emitting thick, dark plumes of smoke that rise into the sky. The sky is a mix of dark grey and blue, suggesting an overcast or smoggy day. The industrial structures themselves are complex, with various pipes, ladders, and platforms visible. The overall tone of the image is somber and industrial, emphasizing the scale of fossil fuel production and its associated emissions.

THE FOSSIL FUEL NON- PROLIFERATION TREATY

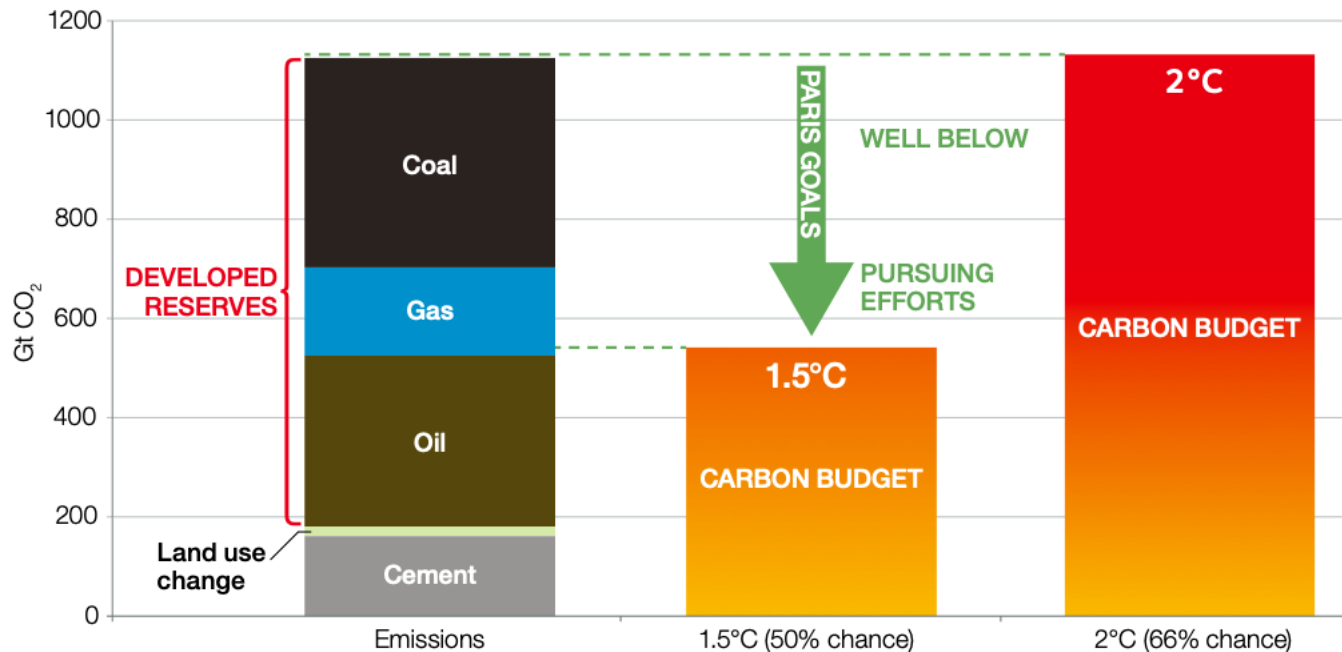
An initiative to phase-out fossil fuels and fast-track solutions

THE FOSSIL FUEL NON-PROLIFERATION TREATY



Greatest Global Threat: Climate Change

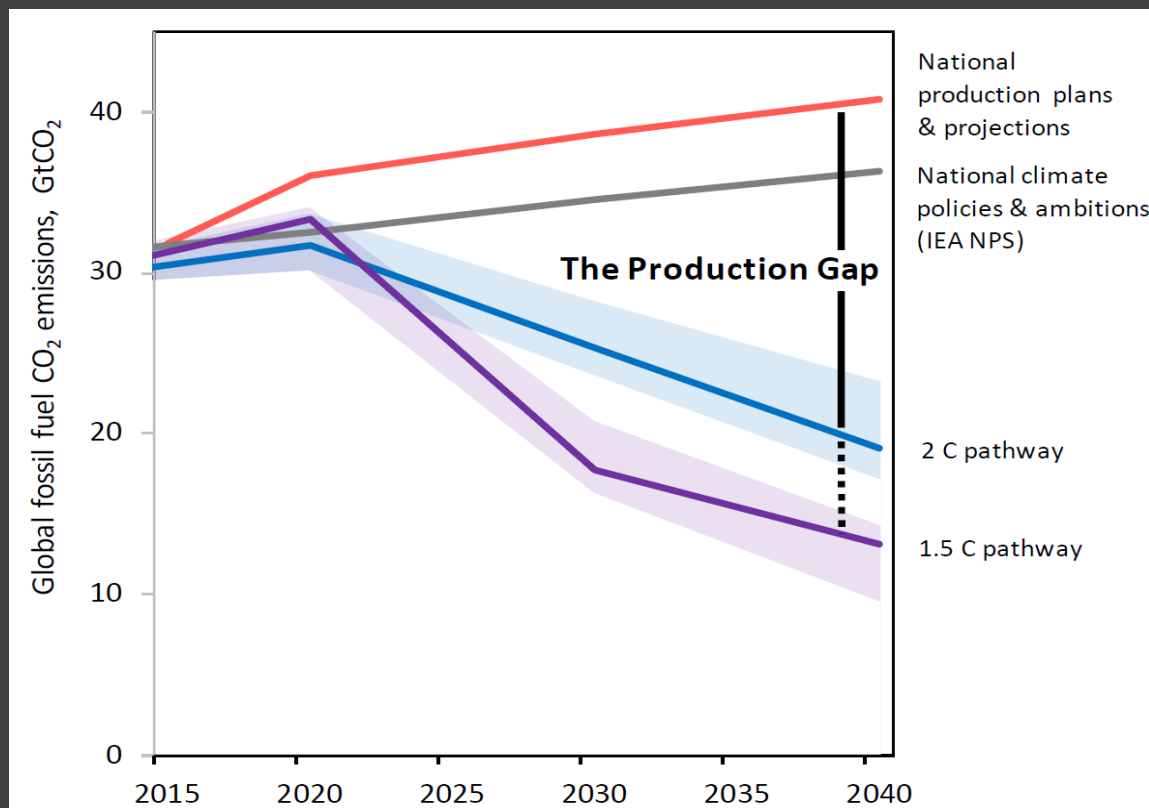
Figure 1: CO₂ Emissions from Developed Global Fossil Fuel Reserves, Compared to Paris Goals Carbon Budgets



Sources: Rystad UCube, International Energy Agency (IEA), World Energy Council, IPCC, OCI analysis^a

Developed reserves + Paris climate goals

The Production Gap





Global systems approach to the fossil fuel industry

Fossil Fuel Non-Proliferation Treaty

Facilitating a rapid, coordinated, transparent and equitable transition
away from fossil fuels

Non-proliferation

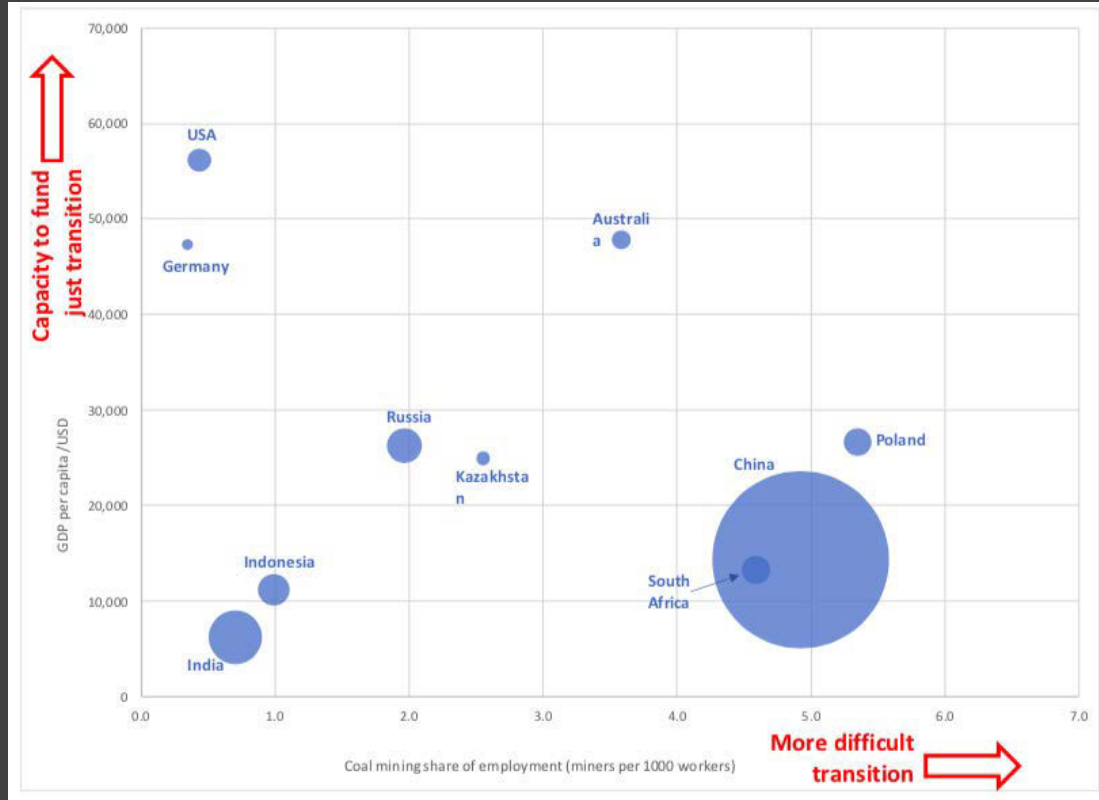


Global
disarmament



Peaceful
transition

Equity in the Global South





Why cities?

Cities:

- Play a pivotal role
- Hit hard by climate disruption

Fossil fuel companies:

- Undercut climate action
- Divert funds

A treaty is important to act on climate emergency

NEWS

Bellingham's Coal Play

Is the massive coal-shipping port planned for Whatcom County a blessing or a curse?

By ELAINE BOWERS / FROM THE PRINT EDITION / SEPTEMBER 2012



POLITICS

Oil, coal, gas: Export proposals are growing

In the hunt for energy to Asia from Washington and Oregon, more fossil fuels are being pushed.

by Floyd McKay / April 16, 2014



Natural gas pipeline expansion plans include Skagit County

By Kimberly Cauwell / Oct. 17, 2013



News Trending Today

MOUNT VERNON — The public is invited to tour sites included in Northwest Pipeline LLC's proposed natural gas pipeline expansion project in Snohomish, Skagit and Whatcom counties Thursday, Oct.

1

More positive cases



The Daily Chronicle

SERVING THE GREATER LEWIS COUNTY AREA SINCE 1889

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Natural Gas Industry's \$1 Million PR Campaign Sets up Fight Over Northwest's Energy Future

By Hal Bernton and Daniel Bookman / The Seattle Times / Dec 23, 2018



Washington and Oregon natural-gas companies, rattled by local proposals that could shift more buildings to electricity, will spend \$1 million on a public-relations campaign to promote their fuel as part of the region's clean-energy future.

The gas companies are forming a coalition of unions, businesses and consumer groups to tout the benefits of natural gas and to help "prevent or defeat" initiatives that inhibit its use, according to internal industry documents obtained by

Business & Service

SAFE Cities

**Cities Standing Against Fossil Fuel
Expansion.**



RESOURCES FOR LOCAL GOVERNMENT LEADERS

If you're a local government leader who wants to phase out fossil fuels and fast-track clean energy infrastructure, this page is for you:

In this political age, the role local officials and staff play in protecting people and the planet is more important than ever. Whether you're interested in passing SAFE policies to protect public health, create good, green jobs or tackle the climate crisis (or all of the above), the SAFE movement is here to help. None of this is possible without people like you.

Here are some initial resources to help you build a safe future for your community:

- [Examples of existing SAFE ordinances and bylaws that have been passed in other communities in the US and Canada.](#)
- [Assessment of City and County powers in each of the 50 US states, giving a first indication of how easy it will be in your community to pass SAFE-style policies](#) (in states where it's more difficult to pass policy, you may want to start with a resolution as a first step).
- [The case for SAFE Cities in the COVID era and beyond: How phasing out fossil fuels at the local level can improve health, create jobs, and secure your community's future.](#)
- [FAQs for local government leaders working on SAFE policies.](#)

We will be updating these resources regularly, so these are just a start.

WHAT IS A SAFE POLICY?

SAFE policies are being championed by local elected leaders and staff who are committed to climate action and protecting public health and safety from the risks of fossil fuels. They can include opposing new fossil fuel infrastructure, affirming a commitment to the goals of the Paris Climate Agreement and endorsing the complimentary Fossil Fuel Non-Proliferation Treaty, committing to a future of electrification and renewable energy, and/or developing financial strategies to ensure that no one's left behind. As a first step, local

SAFE County: King

By working with a supportive county council member and strategically applying grassroots pressure, in January of 2019 King County passed a temporary moratorium prohibiting new fossil fuel infrastructure within county limits. In doing so they joined a wave of other communities in the Pacific Northwest doing the exact same thing, and now look to solidify their momentum by passing permanent legislation. In July 2020, the County Council (unanimously!) voted to make the moratorium permanent- enacting a comprehensive suite of regulations which protect King County communities from fossil fuel threats.

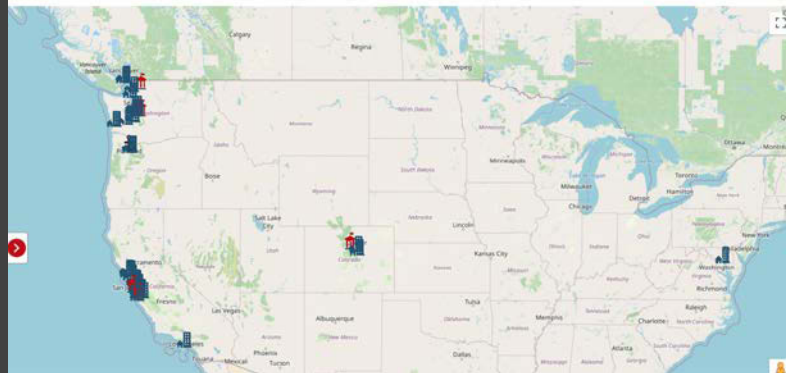
[LEARN MORE](#)

[GET INVOLVED](#)

Credit: Alex Gurnea Photography

Welcome to SAFE Cities – a growing movement of neighbors, local groups, and elected officials phasing out fossil fuels and fast-tracking clean energy solutions.

Check out the map to see where groups are working to pass SAFE policies and find a group near you. To start your own group, or to learn how your local organization can join SAFE, [click here](#).

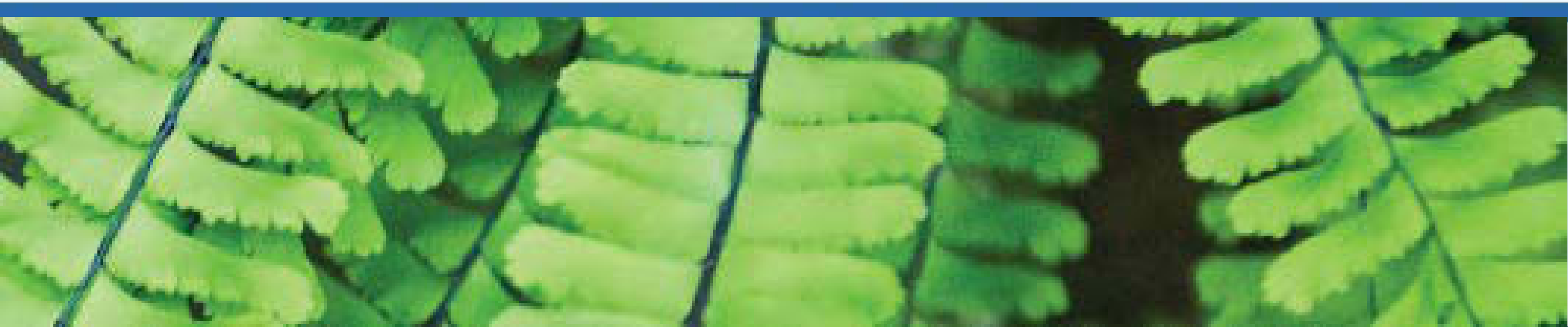




Learn more and join the
campaign at
www.fossilfueltreaty.org

Follow @fossilfueltreaty to
share with your networks





MODELLING A CARBON NEUTRAL REGION

PRELIMINARY RESULTS

Morgan Braglewicz

SENIOR POLICY AND PLANNING ANALYST



metrovancouver
SERVICES AND SOLUTIONS FOR A LIVABLE REGION



Metro Vancouver will be a carbon neutral region by 2050, and reduce GHG emissions by 45% by 2030



How do we create a carbon neutral region by 2050?

Modelling a Carbon Neutral Region

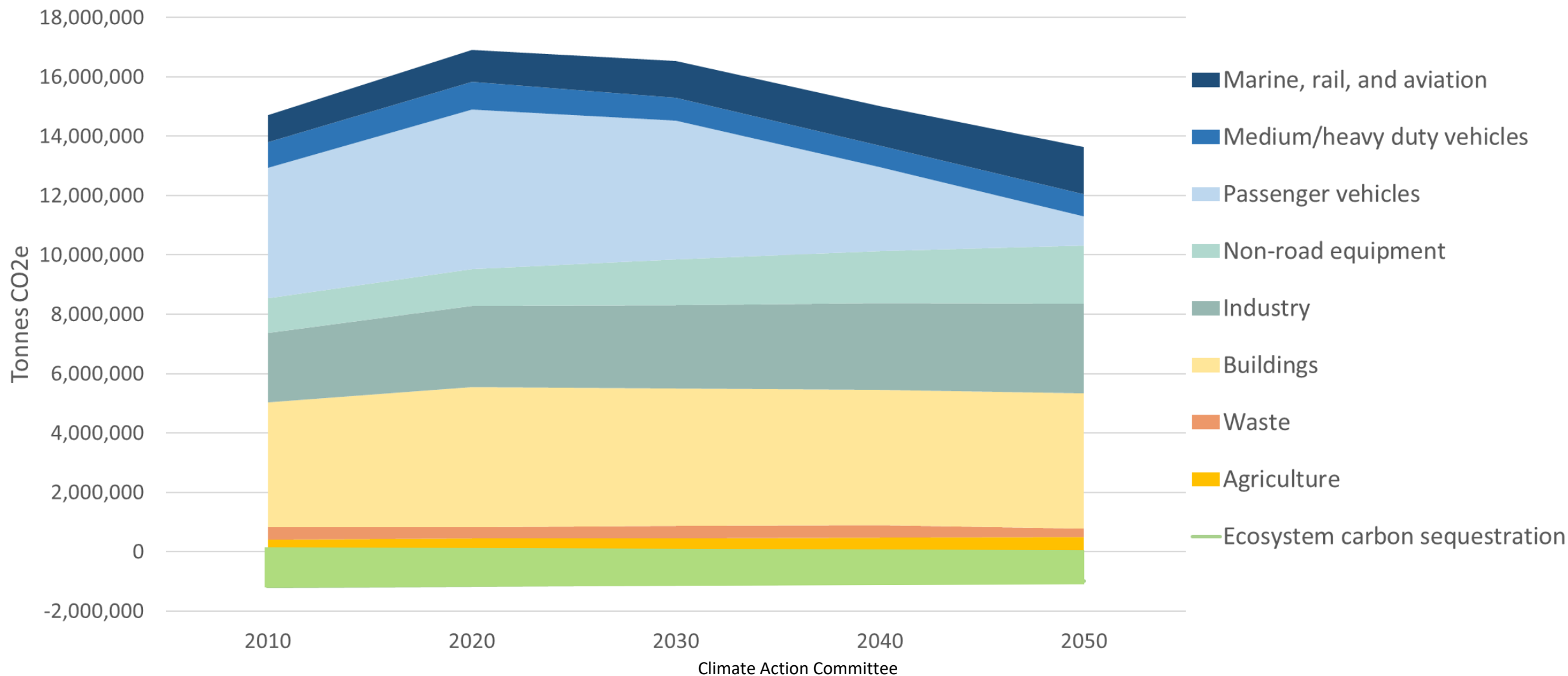
Objective: to evaluate the greenhouse gas emissions reductions associated with an “aggressive and achievable” policy package

A **Business as Planned** scenario models our emissions trajectory based on current policies and plans

A **Carbon Neutral Scenario** models an aggressive and achievable package of policies to more drastically reduce emissions

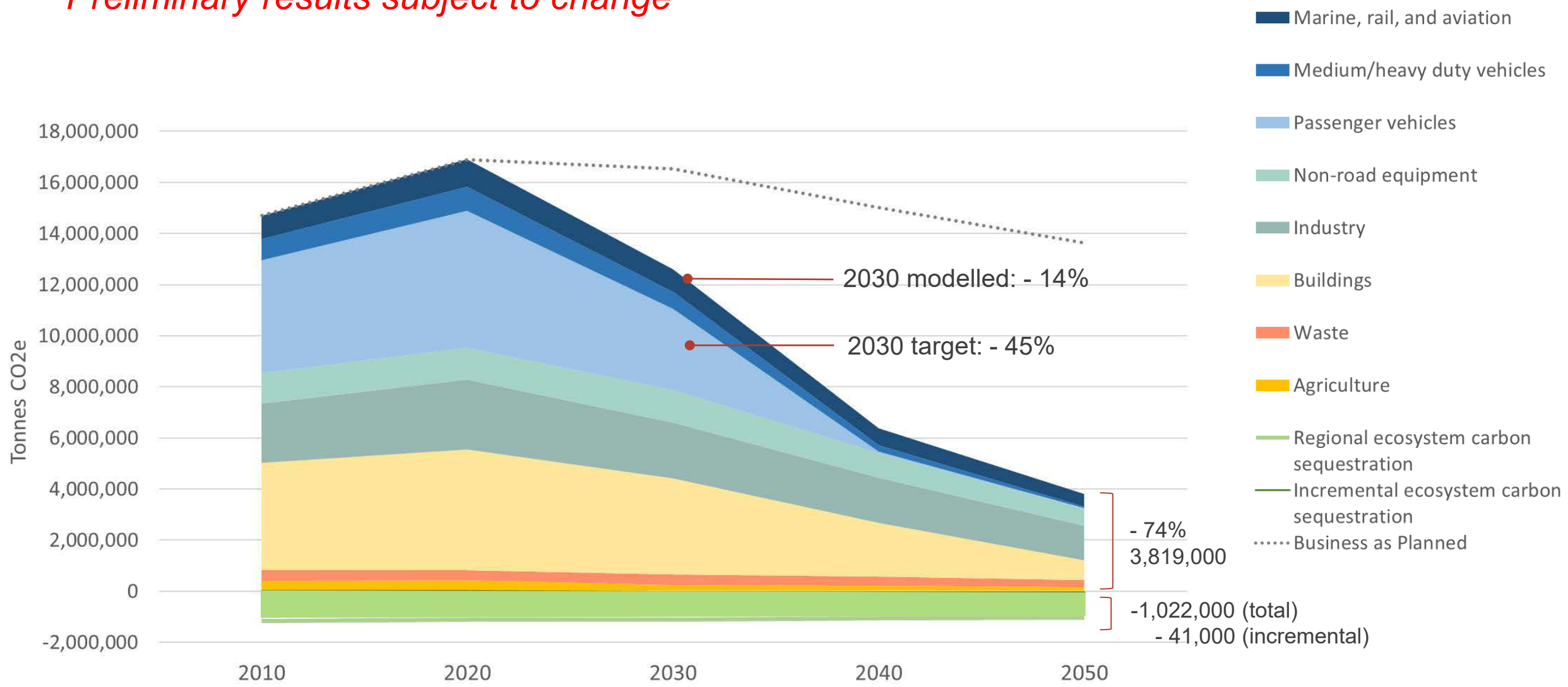
Business As Planned Scenario

**Preliminary results subject to change*



Carbon Neutral Scenario

**Preliminary results subject to change*



Key Model Policies: On Road Transportation

Accelerated ZEV mandate for light duty vehicles: 100% of new passenger vehicles sold are Zero Emissions Vehicles (ZEVs) by 2030, rather than 2040 as currently regulated.

ZEV mandate for medium/heavy duty vehicles: Provincial ZEV sales targets are established for medium and heavy duty vehicles, steadily increasing over time.

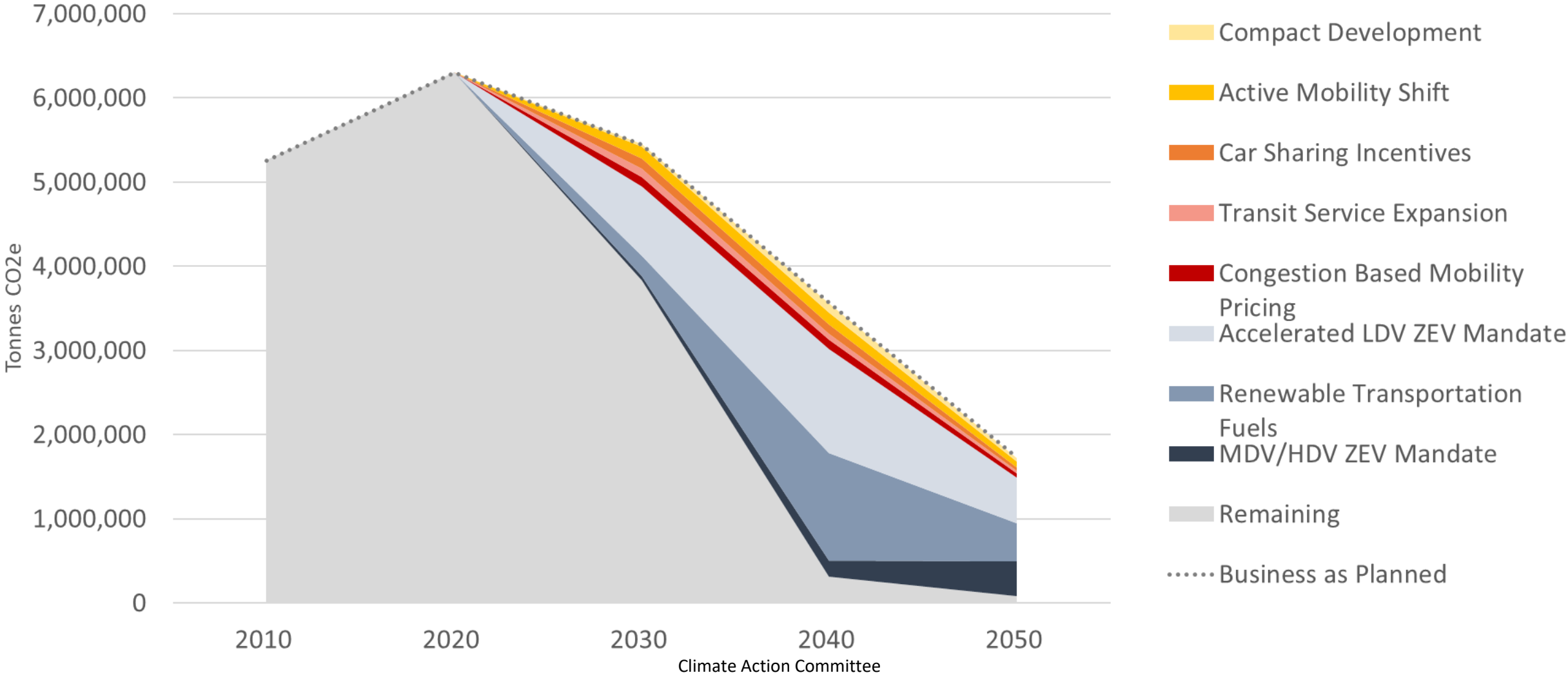
Renewable transportation fuels: renewable fuel blends for gasoline and diesel gradually increase to 100% for gasoline by 2050, and 80% for diesel.

Reducing passenger vehicle use: a suite of policies target mode switching and less driving to reduce the amount of kilometers travelled by passenger vehicles.

On Road Transportation Results

**Preliminary results subject to change*

DRAFT



Key Model Policies: Buildings

New buildings requirements: starting in 2025, coordinated region-wide regulations require all new buildings to meet stringent low GHG emission performance standards.

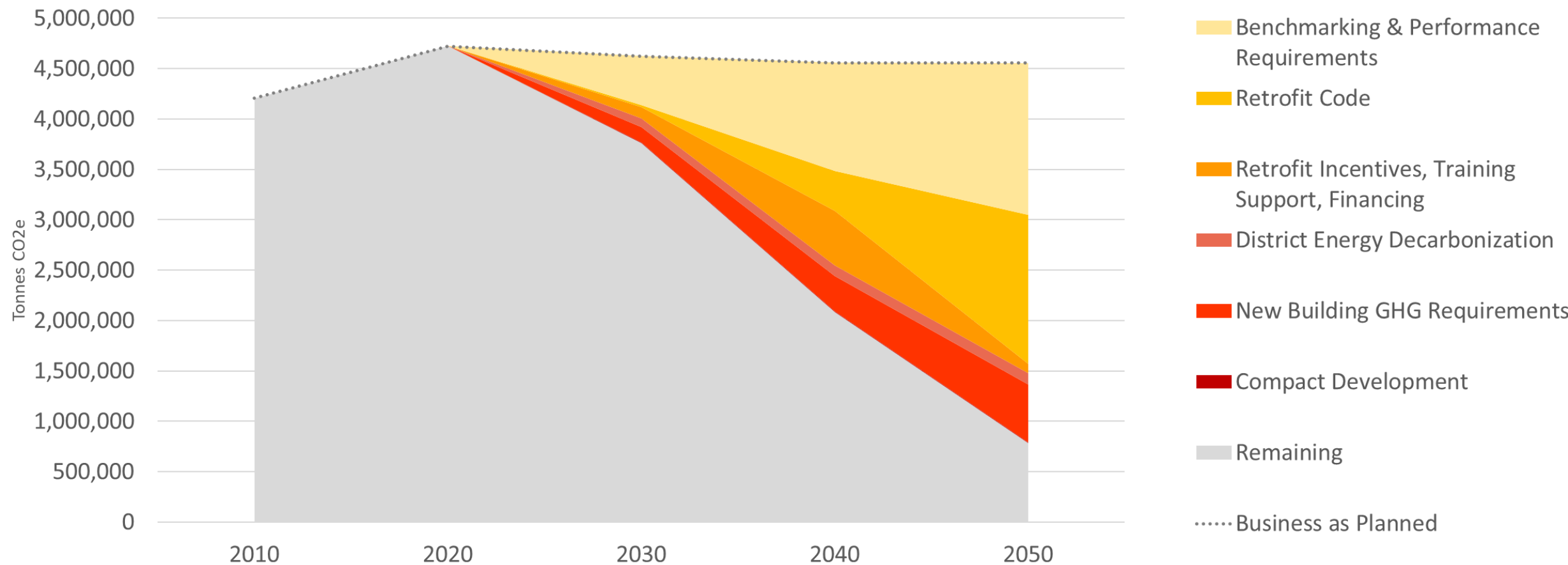
Building benchmarking and performance requirements: starting in 2025, large existing buildings must report their energy use and meet increasingly stringent GHG emission performance requirements through retrofits.

Retrofit code: starting in 2025, a Provincial retrofit code sets stringent low GHG emission performance standards for existing homes and town homes that must be met by 2045.

Buildings Results

DRAFT

**Preliminary results subject to change*



Key Model Policies: Industry

Industrial energy switching: A suite of regional and provincial regulations, supported by utility incentive programs, require that energy used for boilers, heaters, and industrial processes use increasing amounts of renewable energy.

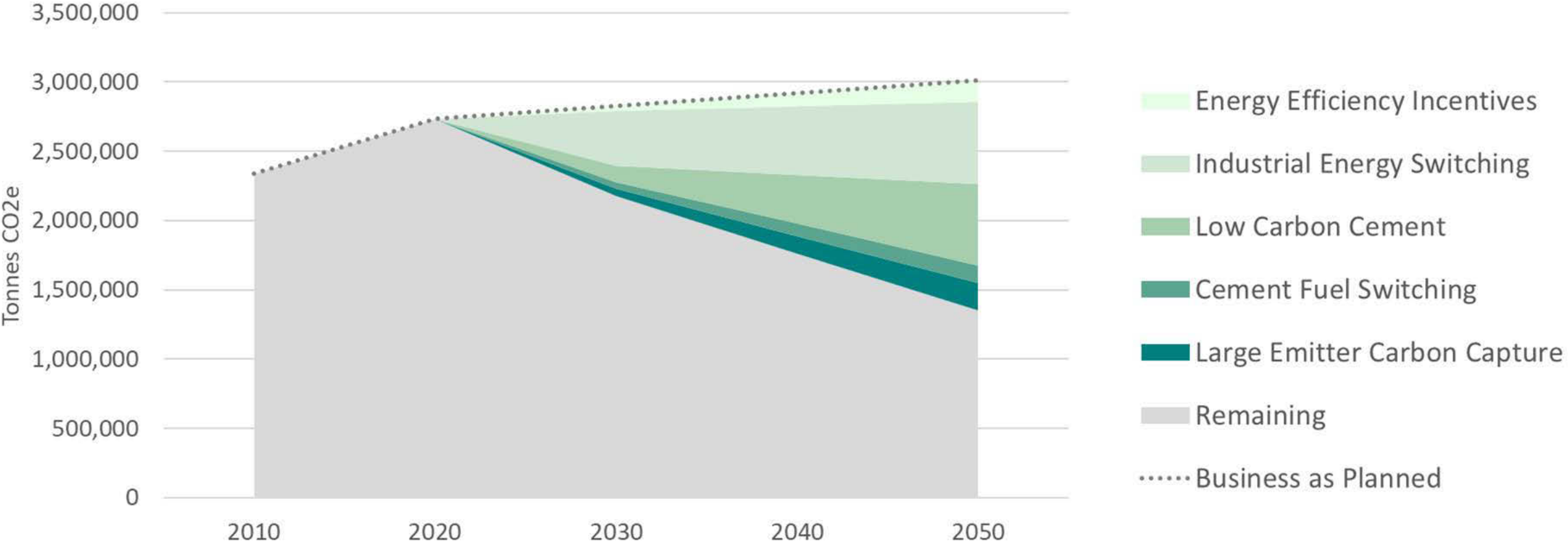
Cement fuel switching: Regionally supplied biosolids displace some coal use in cement plants.

Large emitter carbon capture: 50,000 tonnes of CO₂ is captured in 2030, reaching 200,000 tonnes in 2050.

Industry Results

DRAFT

**Preliminary results subject to change*

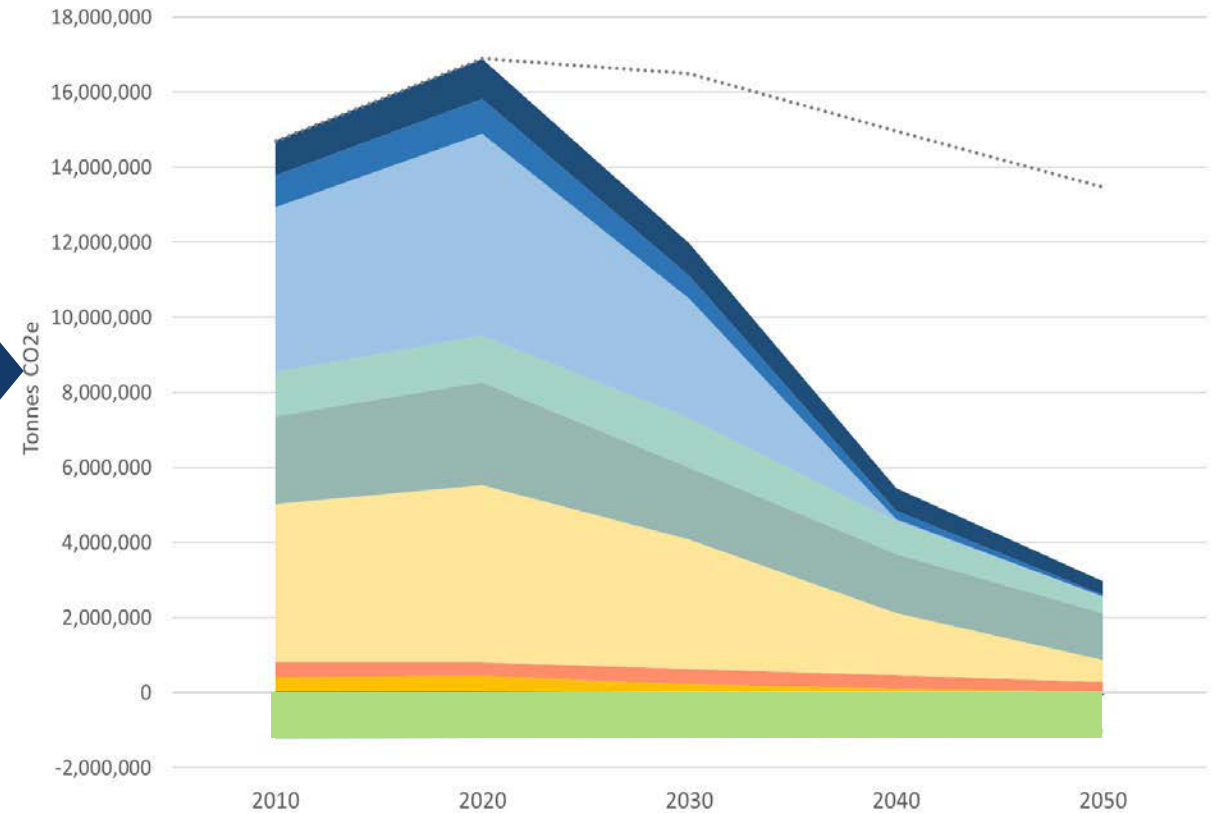
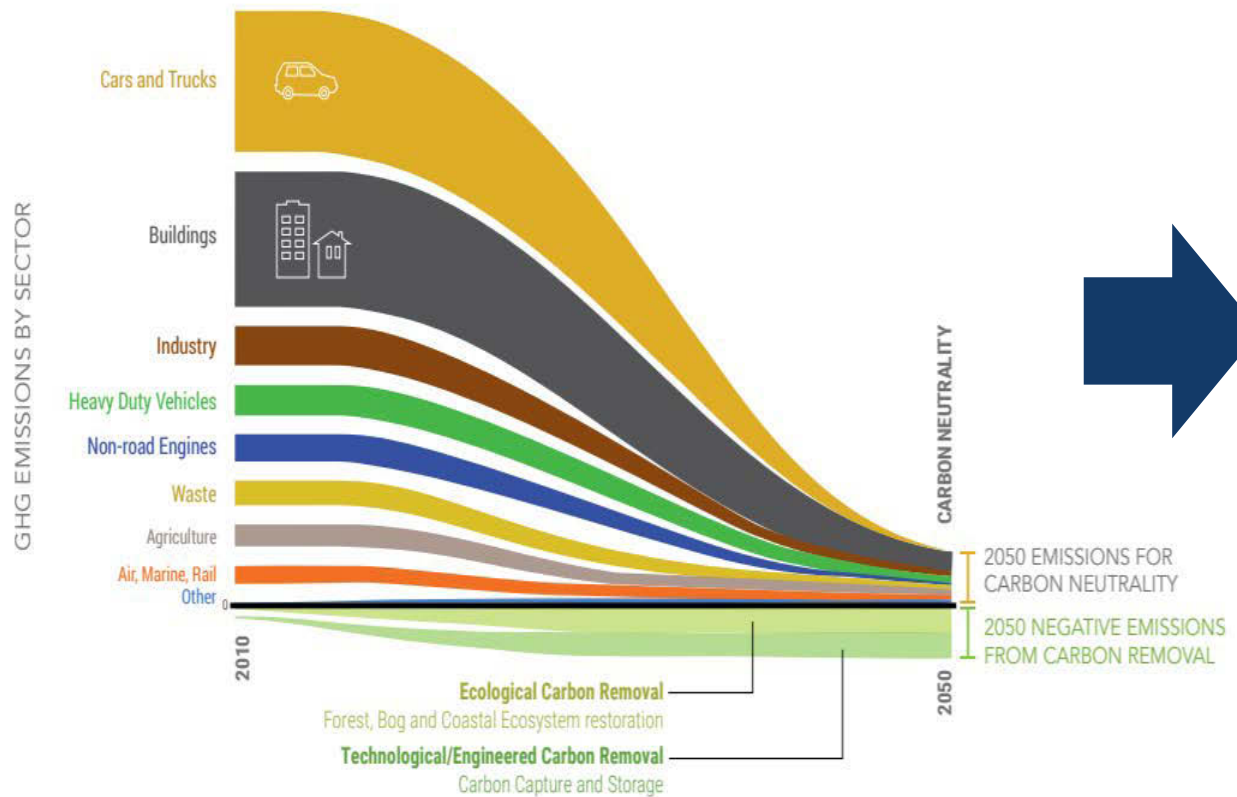


Next Steps

- Finalize the project results and share the final report with Committee
- Use modelling results to inform the development of the initial *Climate 2050 Roadmaps* and *Clean Air Plan*
- Identify critical near term actions and policy areas that may need more development
- Enable development of long term policies, action, and technologies to reach regional carbon neutrality by 2050
- Monitor progress towards key GHG targets through annual reporting

How can we create a carbon neutral region by 2050?

HOW CAN WE CREATE A CARBON NEUTRAL REGION BY 2050?



Questions

41872472

Climate Action Committee



metrovancouver
SERVICES AND SOLUTIONS FOR A LIVABLE REGION



Proposed Amendments to Air Quality Fees

PHASE 2: ENGAGEMENT

Ray Robb

ENVIRONMENTAL REGULATION & ENFORCEMENT
DIVISION MANAGER, PARKS AND ENVIRONMENT

Climate Action Committee | November 13, 2020

Derek Jennejohn

LEAD SENIOR ENGINEER, PARKS AND ENVIRONMENT



metrovancover
SERVICES AND SOLUTIONS FOR A LIVABLE REGION

Metro Vancouver Air Quality Regulatory Services

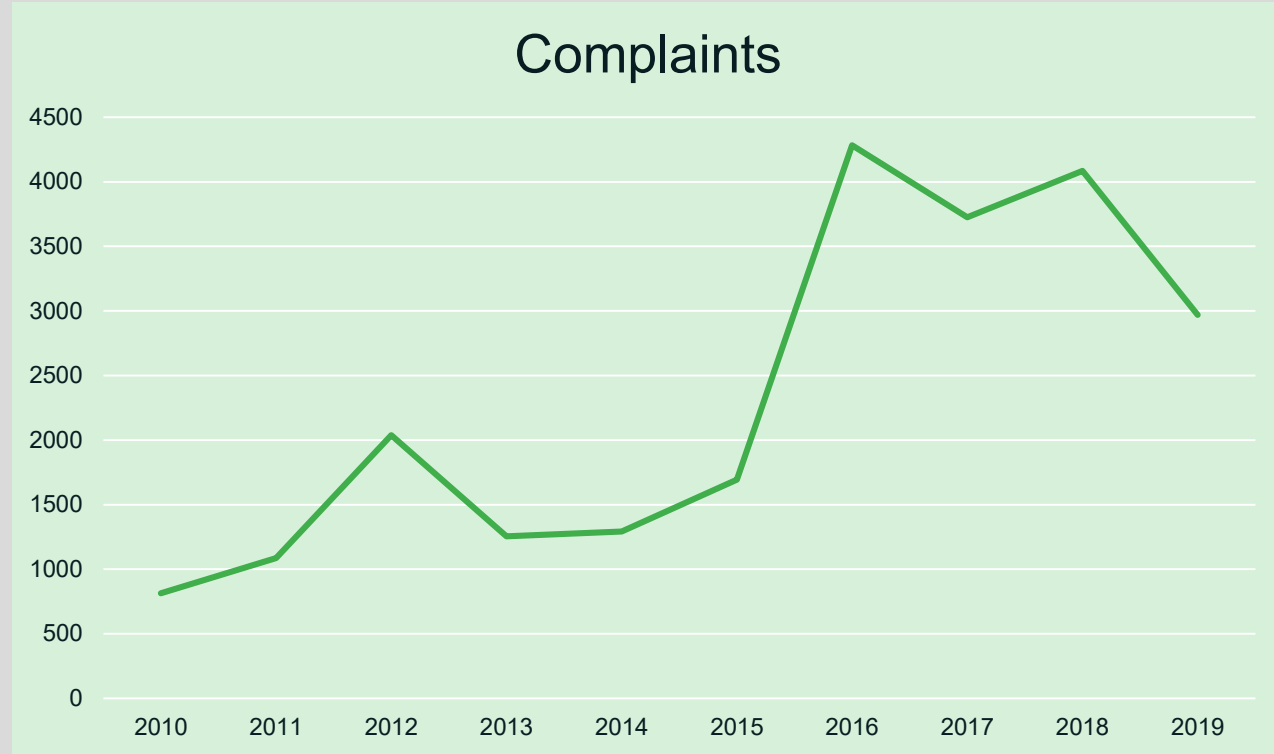
Protect air quality by:

- Developing
 - permit requirements
 - regulatory (bylaw) requirements
- Promoting compliance with (enforcement of)
 - permit requirements
 - regulatory requirements
- Responding to air quality complaints



Regulatory Costs and Drivers

- ↑ Complaints
- ↑ Permit (Appeal) Costs
- ↑ Regulatory Development Costs
- ↑ Enforcement Costs



Regulatory Services Funding



Regulatory services costs are up



Permit and regulatory fees are down

- No change to air contaminant fee rates (\$/tonne) since 2008
- Air contaminant discharge quantities (tonnes/year) are down



Tax requisitions are up and are forecast to go up even more

Process

Phase 1: Public opinion research

Survey to inform development of a Discussion Paper

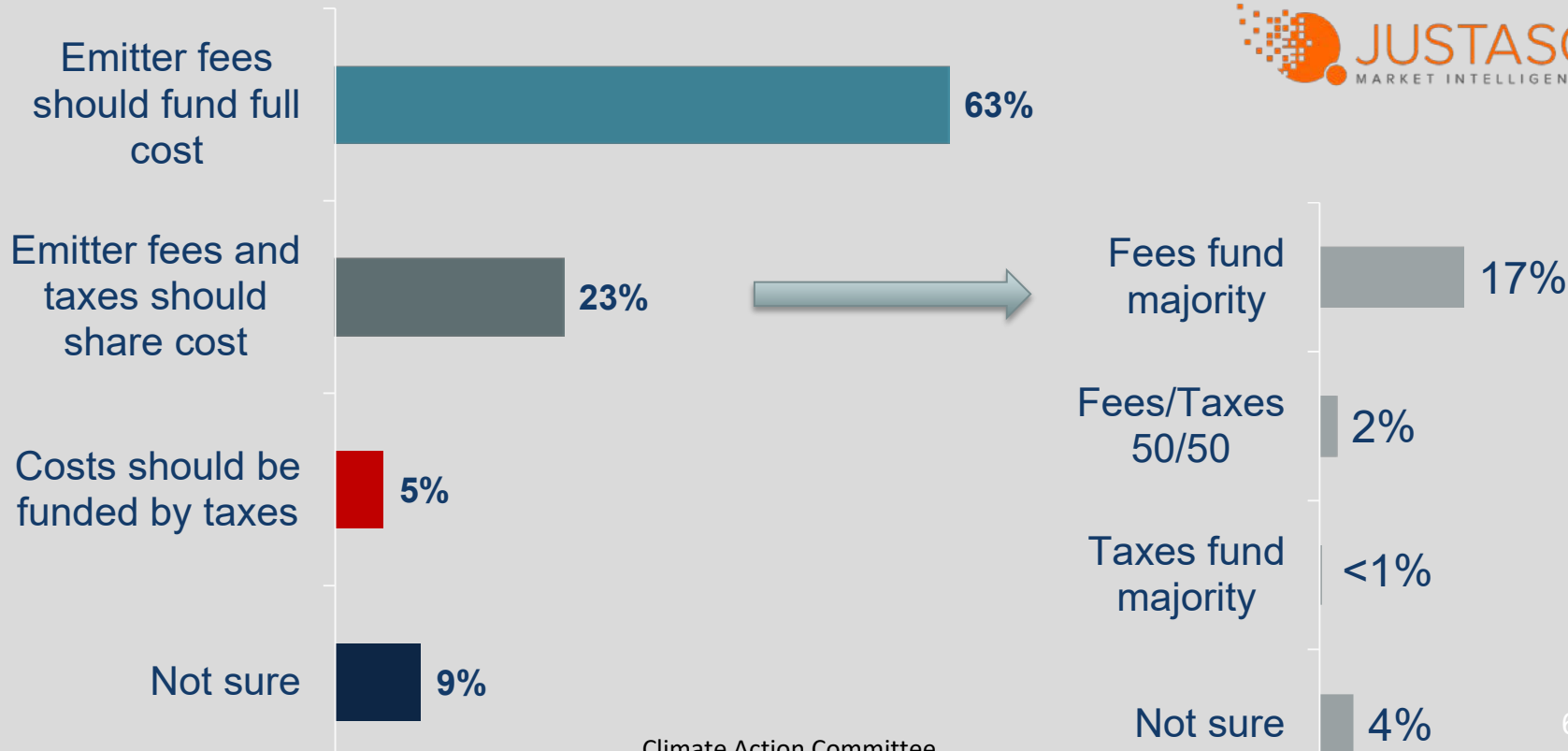
Phase 2: Engagement

Public and targeted engagement on proposed amendments in Discussion Paper

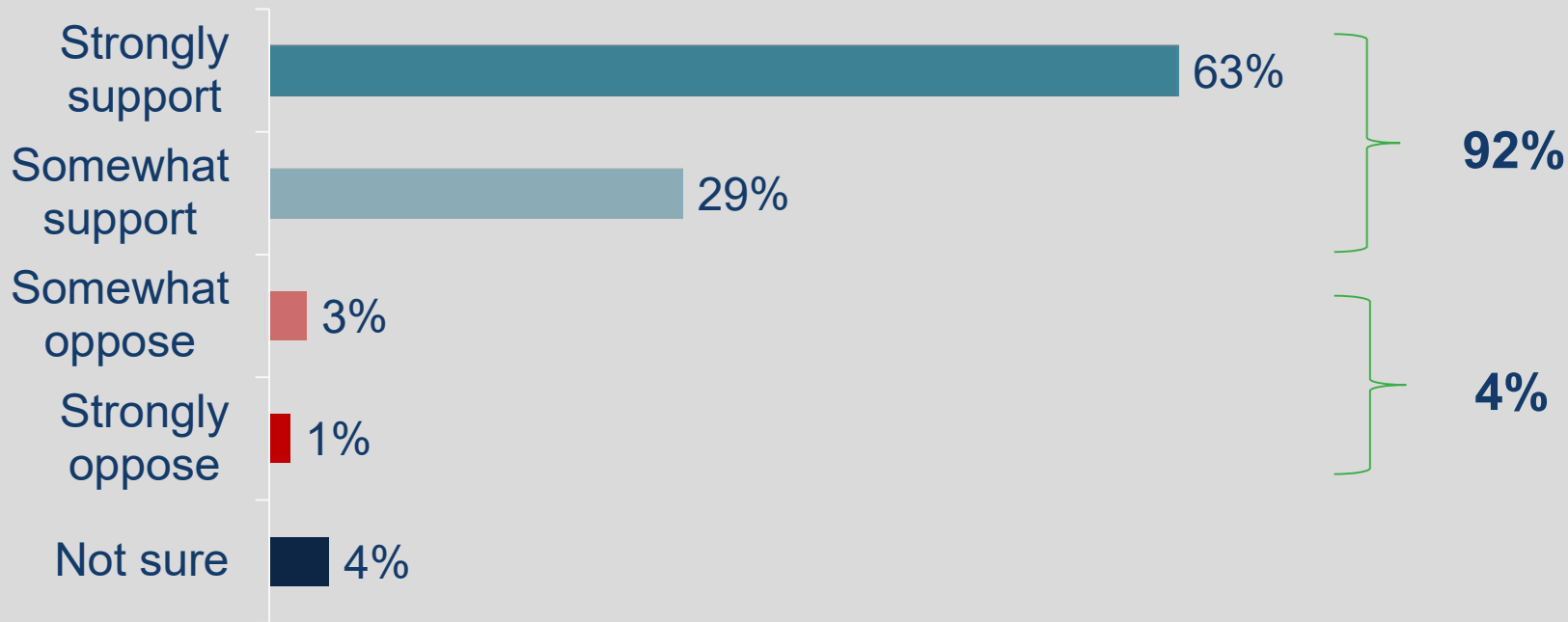


Public Opinion Polling (Phase One) Results

Who should fund Metro Vancouver Air Quality Regulatory Services?



Do you support higher fees for more harmful contaminants, and lower fees for less harmful contaminants?

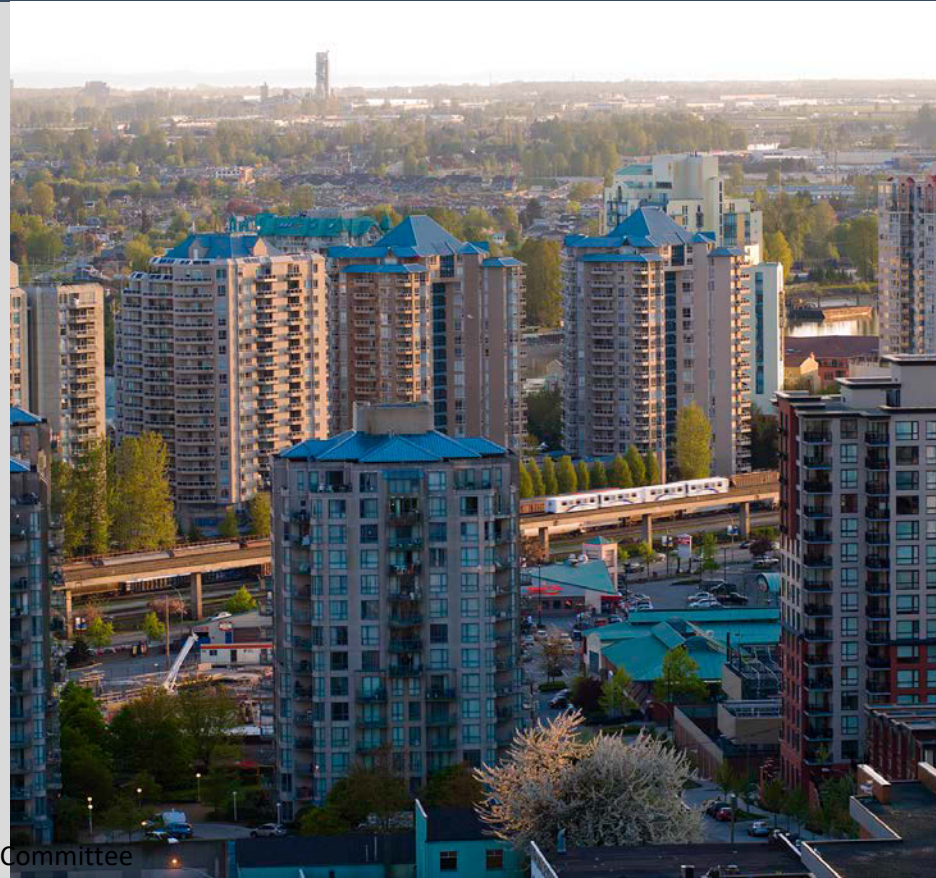


Proposed Amendments to Fees: Key Points

- Fees proposed to significantly increase for some contaminants
- Fees for odorous air contaminants (previously no fee)
 - Opportunity for rebate if demonstrate minimal impact
- Two increments proposed: 2022 and 2025
- Expected fees less than regulatory costs
- Proposed fees far less than societal (health) costs

Engagement Schedule

- Phase 1: Survey (Complete)
 - August to October
- Develop Discussion Paper
 - October and November
- Phase 2: Engagement
 - December to March 2021
- Bring draft bylaw to Board
 - Second Quarter 2021





Questions?

41915693



metrovancouver
SERVICES AND SOLUTIONS FOR A LIVABLE REGION



Air Aware: Air Quality and Citizen Science

Amy Thai

ACTING SENIOR POLICY ANALYST

Climate Action Committee, November 13, 2020

42110967

Ken Reid

SUPERINTENDENT, ENVIRONMENTAL SAMPLING
AND MONITORING



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SERVICES AND SOLUTIONS FOR A LIVABLE REGION

<http://www.metrovancouver.org/services/air-quality/action/air-aware/Pages/default.aspx>



Thank you

