

# RENEWABLE CITY ACTION PLAN

Sustainability Group  
*Report to Council Nov 1, 2017*



## RECOMMENDATION

A

Approve the Renewable City Action Plan (RCAP) and direct staff to begin its implementation

B

Direct staff to report back with an overall review of the RCAP in ~5 years (2021)

## TODAY'S AGENDA

- Context
- Progress and Challenges
- Interim Targets
- Actions and Monitoring

Vancouver adopted the **Renewable City Strategy** in 2015.

## TARGETS



## FOCUS

BUILDINGS



TRANSPORTATION



SOLID WASTE

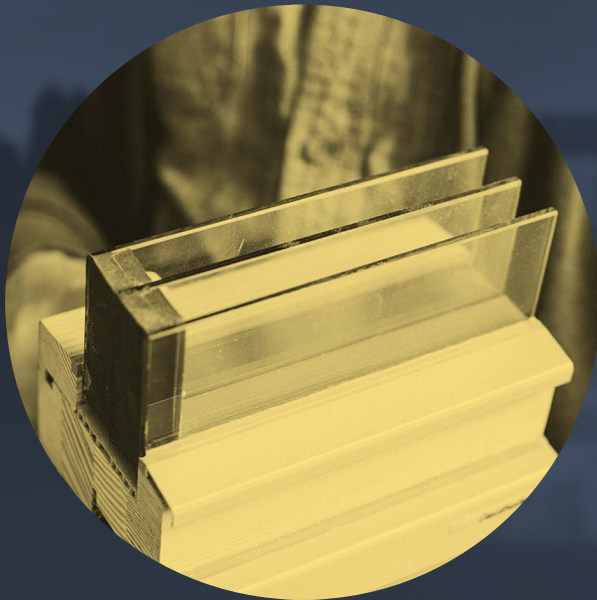


OF VANCOUVER'S **CARBON POLLUTION**

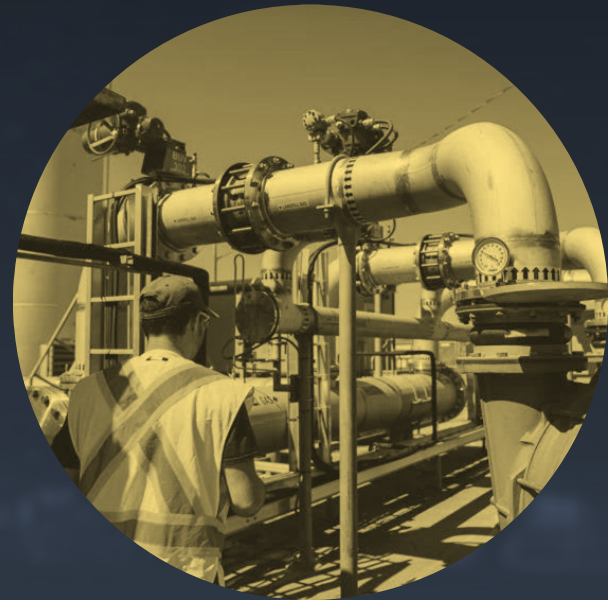


## APPROACH

IMPROVING **ENERGY**  
**EFFICIENCY**



INCREASING THE USE AND SUPPLY  
OF **RENEWABLE ENERGY**



## RATIONALE

ENVIRONMENTAL



ECONOMIC



HEALTH



The Renewable City Action Plan includes interim targets, principles and actions the City will take over the next 10 years to improve energy efficiency and transition to renewable energy.



We have achieved much,  
but we are still chasing  
the global leaders.

## PER-CAPITA CARBON POLLUTION

2.0 Oslo  
2.0 Stockholm  
2.4 Copenhagen  
**3.9 Vancouver**  
4.7 London  
5.1 Surrey  
5.2 Seattle  
5.4 Montreal  
5.8 San Francisco  
7.5 Toronto  
tonnes CO<sub>2</sub>e



## PROGRESS – CARBON REDUCTION (2007 to 2016)

**-11%**

**overall**  
community-wide  
carbon pollution

**-18%**

**per-capita**  
community-wide  
carbon pollution

## PROGRESS – ECONOMIC GROWTH (2007 to 2016)

-\$38M

annual energy  
costs to residents  
and businesses

+49%

green jobs  
(since 2010)

## SUCCESSSES

ACTIVE  
TRANSPORTATION  
AND TRANSIT

NEW  
BUILDINGS

SOLID  
WASTE

## CHALLENGES

VEHICLES  
AND FUELS

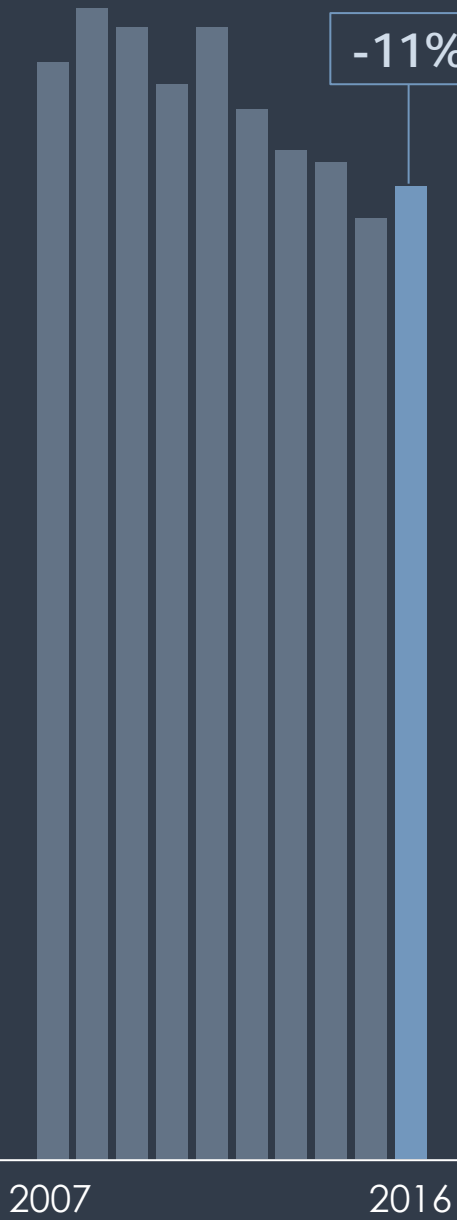
EXISTING  
BUILDINGS

FEDERAL/  
PROVINCIAL  
ACTION



Vancouver's overall  
carbon pollution

-11%



2007 2016 2020 2025 2030 2035 2040 2045 2050

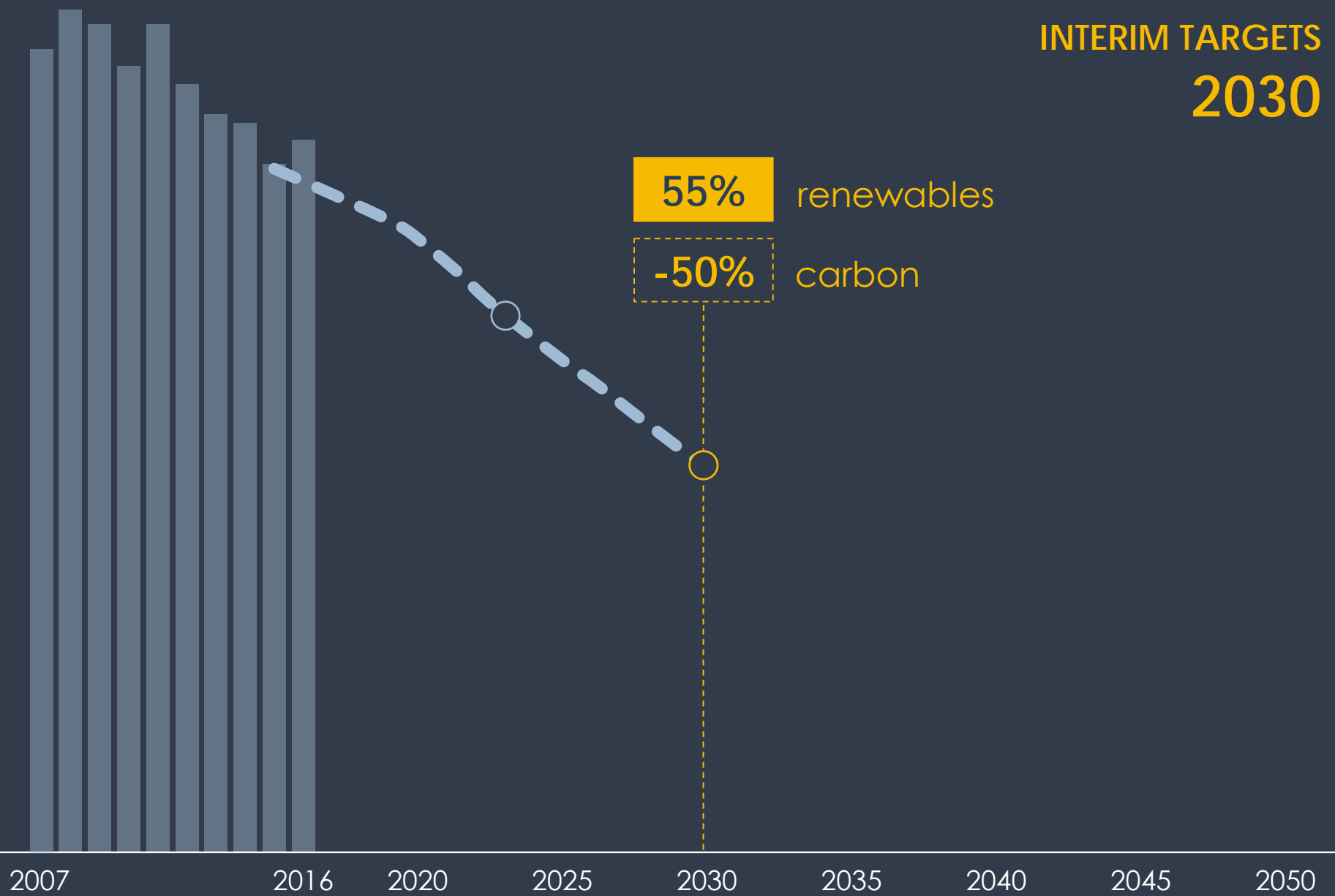
NEAR-TERM TARGET  
**2020**

**44%** renewables  
**-33%** carbon

2020 carbon target  
reached in ~2023  
with additional actions

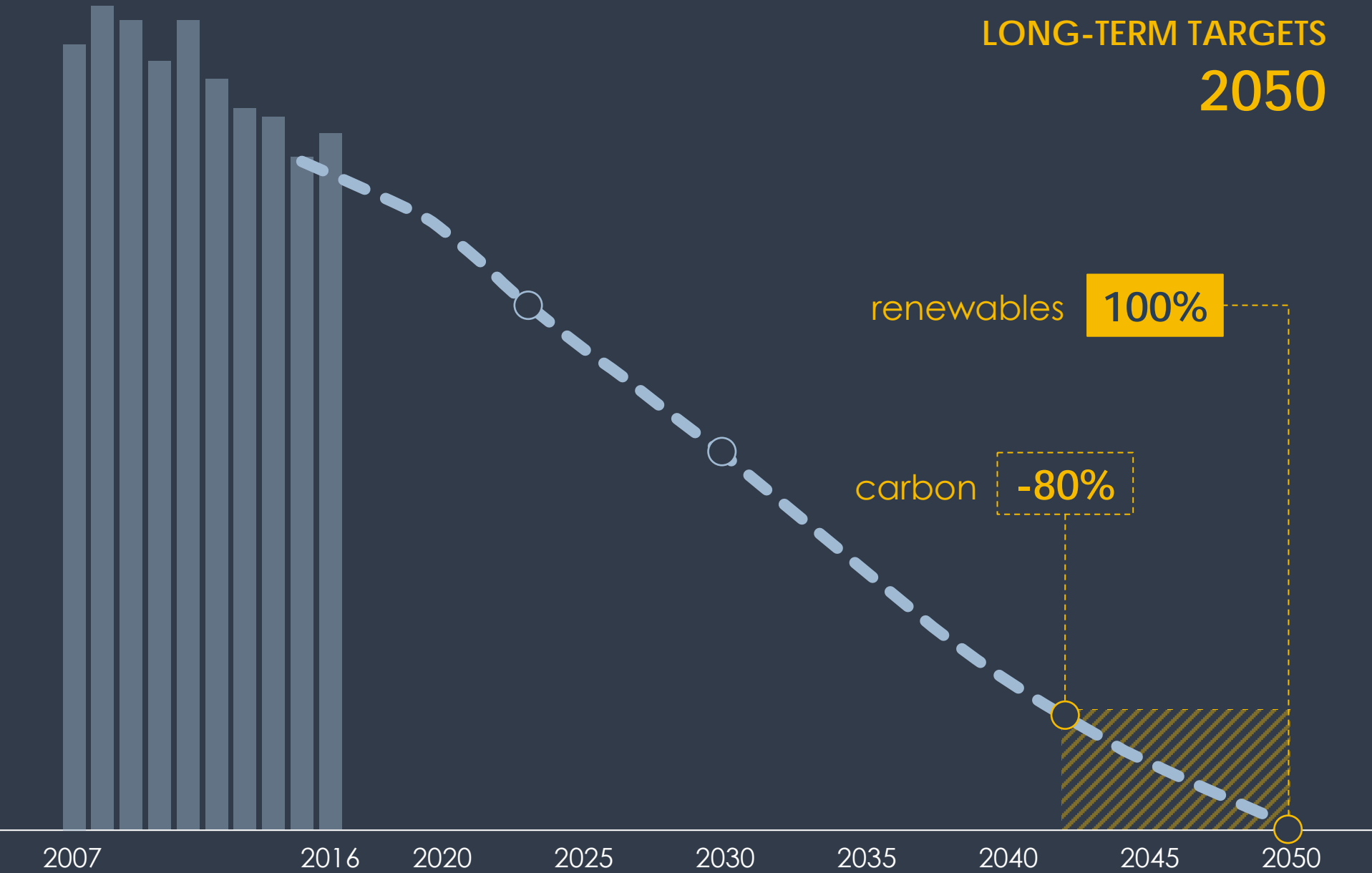
2007 2016 2020 2025 2030 2035 2040 2045 2050

# INTERIM TARGETS 2030



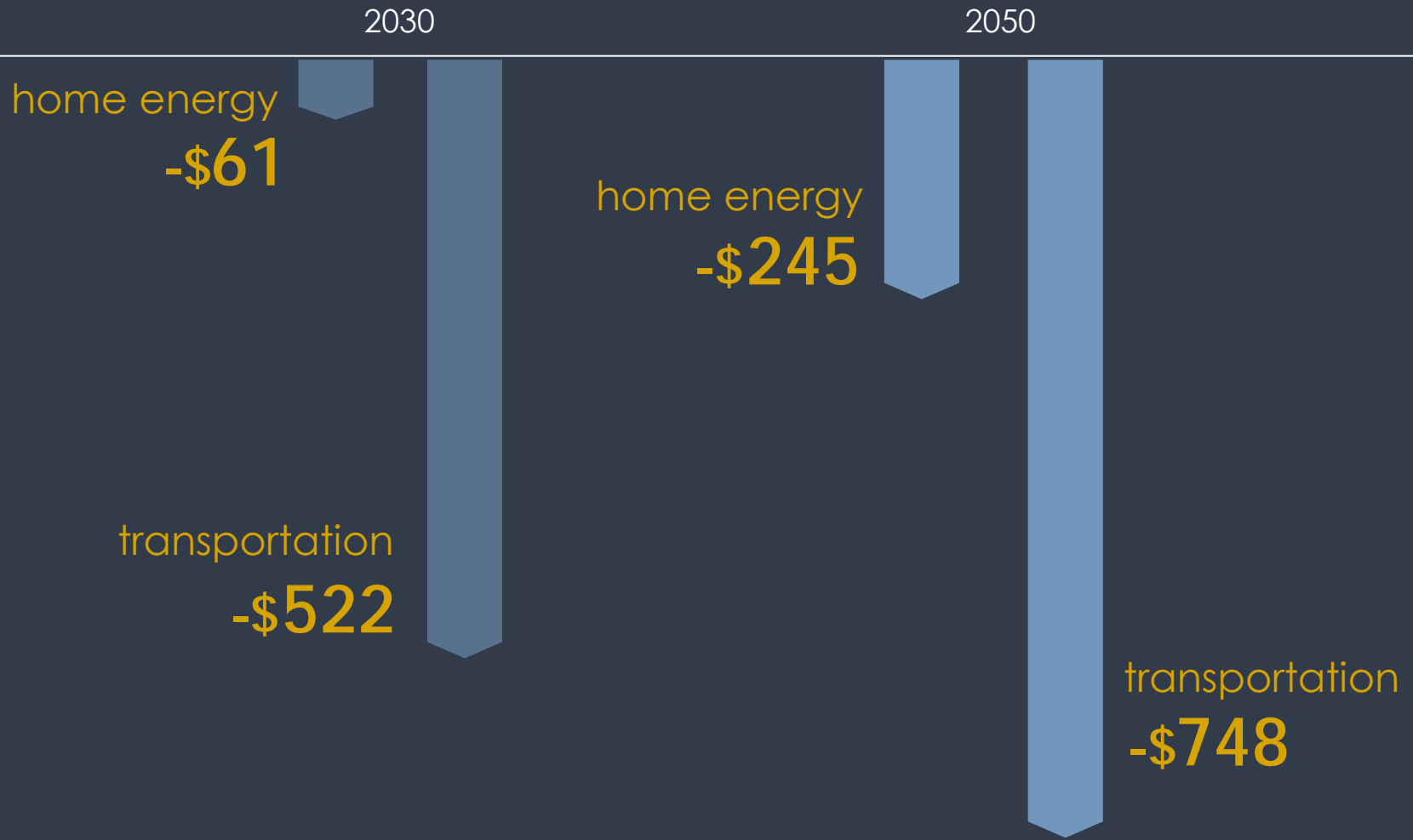


# LONG-TERM TARGETS 2050

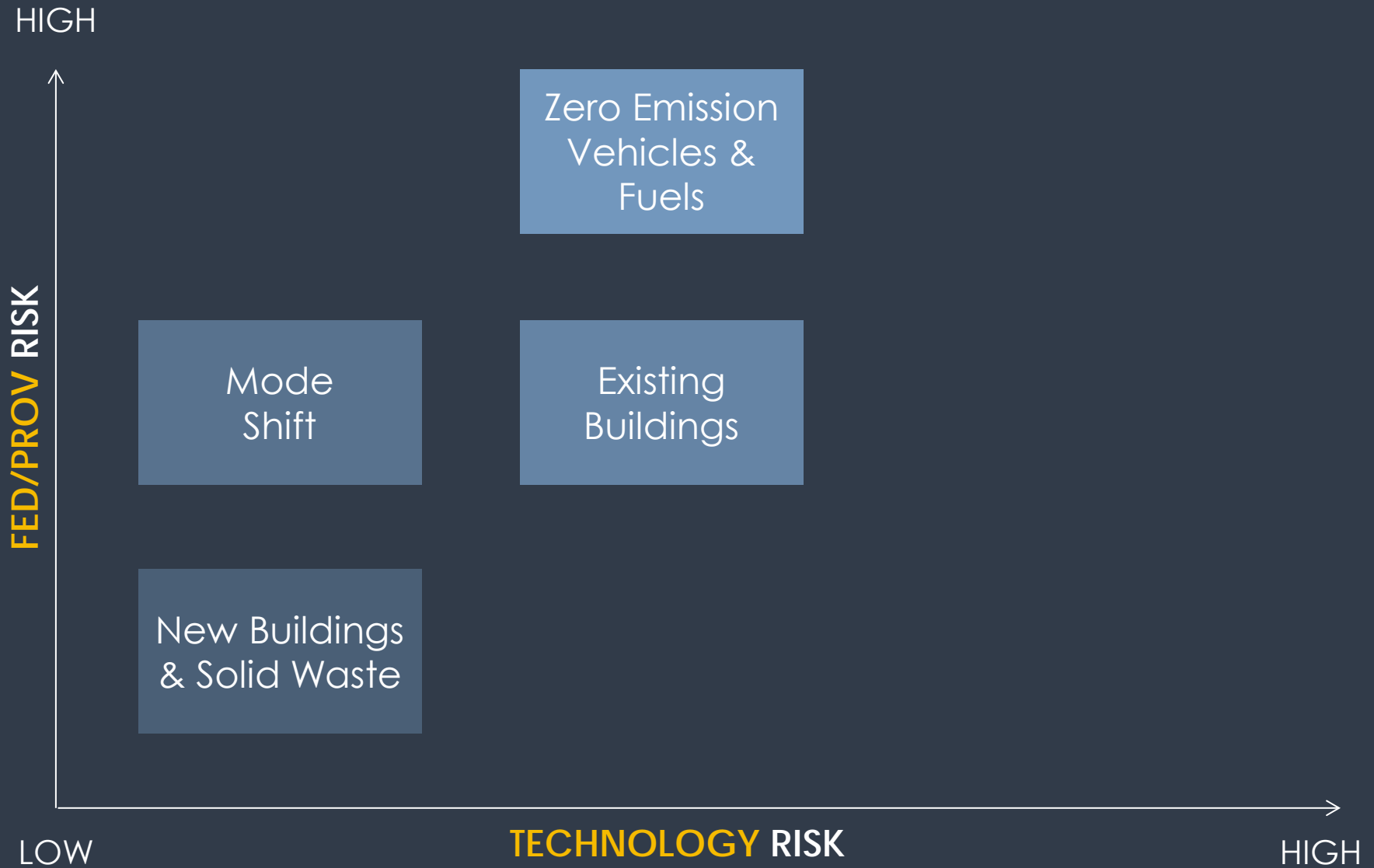


# ANNUAL HOUSEHOLD ENERGY COSTS

relative to 2015



# RISKS TO ACHIEVING TARGETS





# THE ACTIONS

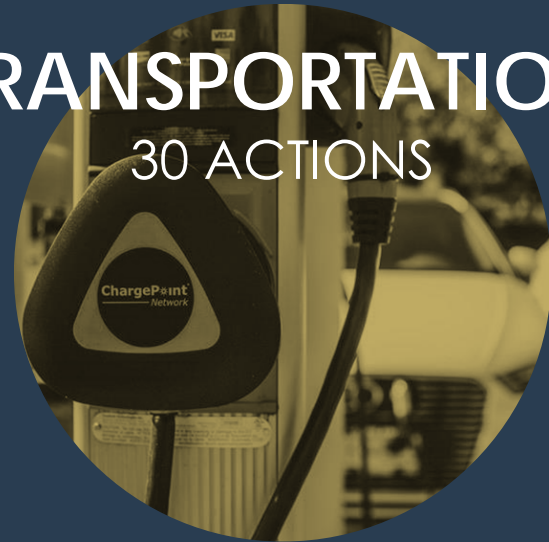
## BUILDINGS

27 ACTIONS



## TRANSPORTATION

30 ACTIONS



## WASTE

4 ACTIONS



## CROSS-CUTTING

16 ACTIONS



## CONSULTATION

Other  
Governments  
and Utilities

Academics  
and  
Researchers

Business  
Community

Environmental  
Groups

General  
Public

## WHAT WE HEARD

**COST**

**CHOICE**

**FEASIBILITY**

## PRINCIPLES

EQUITABLE ACCESS TO  
SOLUTIONS

REDUCE COSTS

INCREASE CHOICE

LEVERAGE NATURAL  
STOCK TURNOVER

SEEK PARTNERSHIPS

ENGAGE AT EVERY STEP

A JUST TRANSITION

ADAPT TO CHANGING  
CIRCUMSTANCES

REDUCE  
CARBON POLLUTION

LEAD BY EXAMPLE

## EXAMPLE ACTIONS

### BUILDINGS

27 ACTIONS



Continue to implement the Zero Emissions Buildings plan

Develop incentives for buildings retrofits that achieve significant energy and carbon improvements





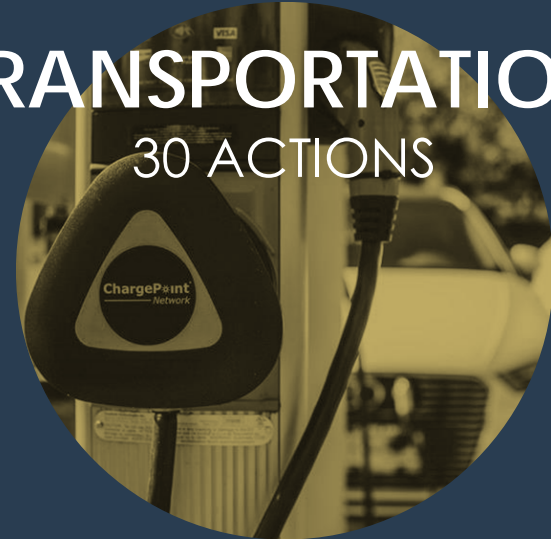
## EXAMPLE ACTIONS

Develop a preferential parking policy for zero emission vehicles

Expand the AAA cycling network and implement the complete streets framework

## TRANSPORTATION

30 ACTIONS





## EXAMPLE ACTIONS



Complete the Zero Waste Strategy



Advance the Vancouver Landfill renewable natural gas project



**WASTE**  
4 ACTIONS

## EXAMPLE ACTIONS



Develop a corporate carbon pricing policy



Continue to expand public and stakeholder engagement



**CROSS-CUTTING**  
16 ACTIONS



ANNUALLY

High-level indicators (as part of GCAP reporting)

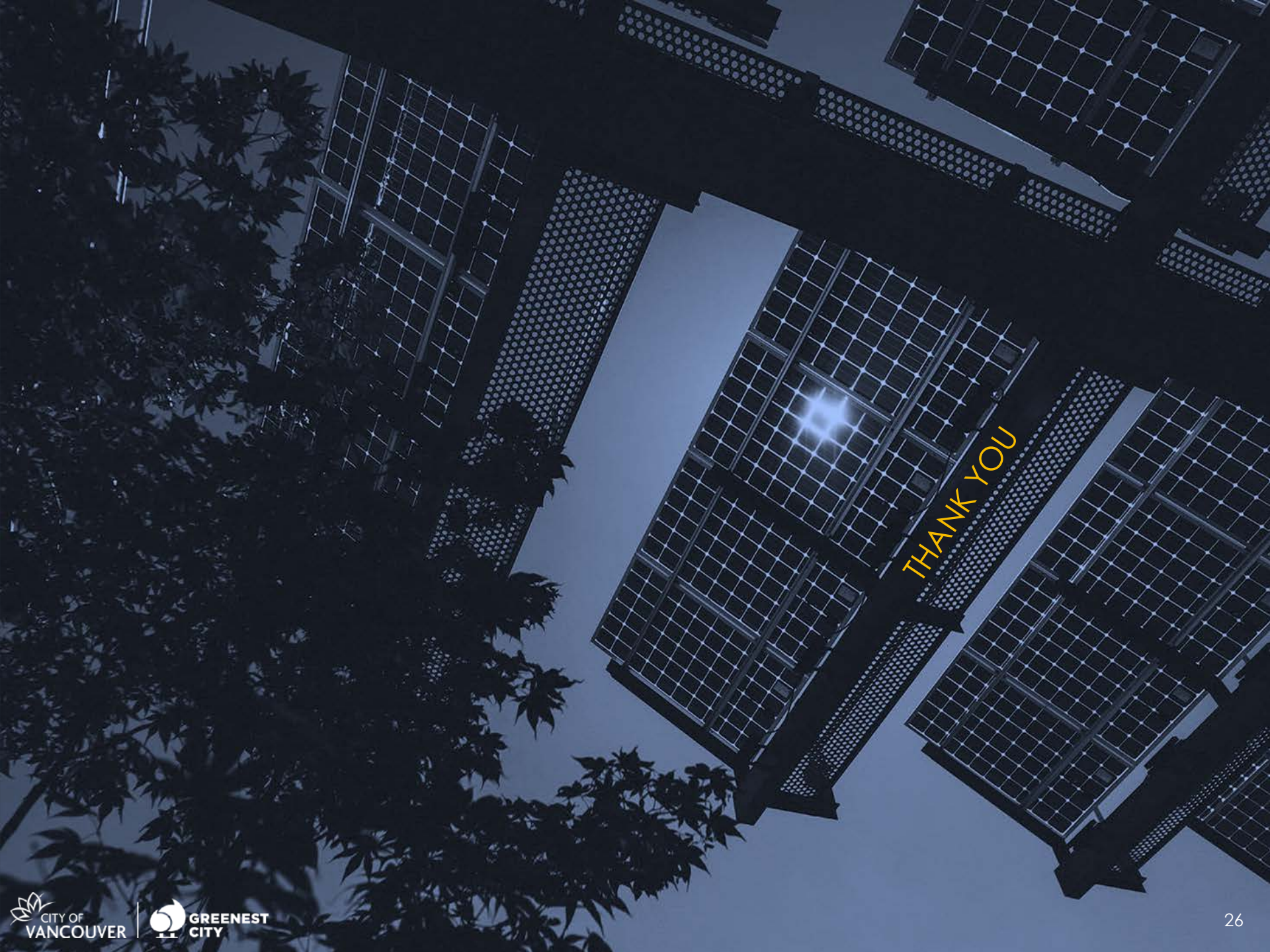
2-3  
YEARS

Near-term actions update

5  
YEARS

Broader review of RCAP progress, actions and anticipated outcomes





THANK YOU