



**5B CAN**  
CLIMATE ACTION NOW



**BLAINE COUNTY**  
**CLEAN ENERGY MODELING**  
**& FEASIBILITY ANALYSIS**

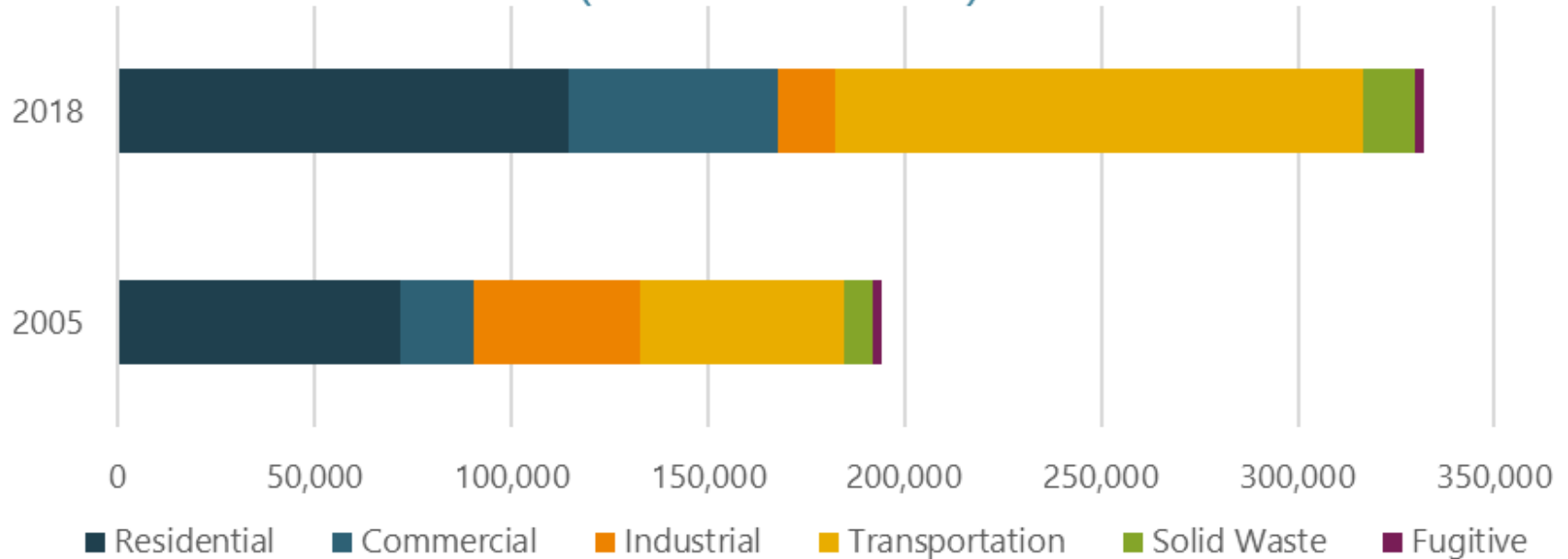


# MODELED ACHIEVABILITY OF CLEAN ENERGY & CLIMATE GOALS

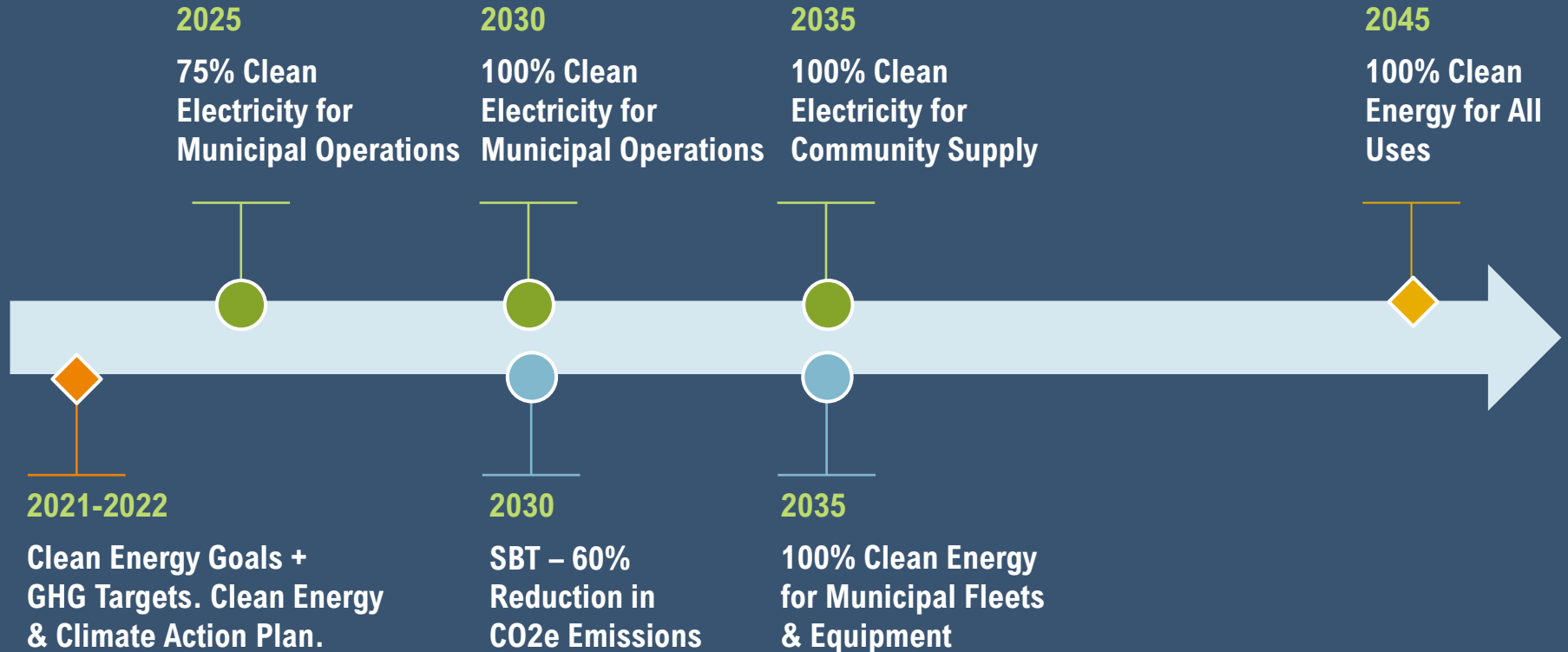


# GHG EMISSIONS INVENTORY

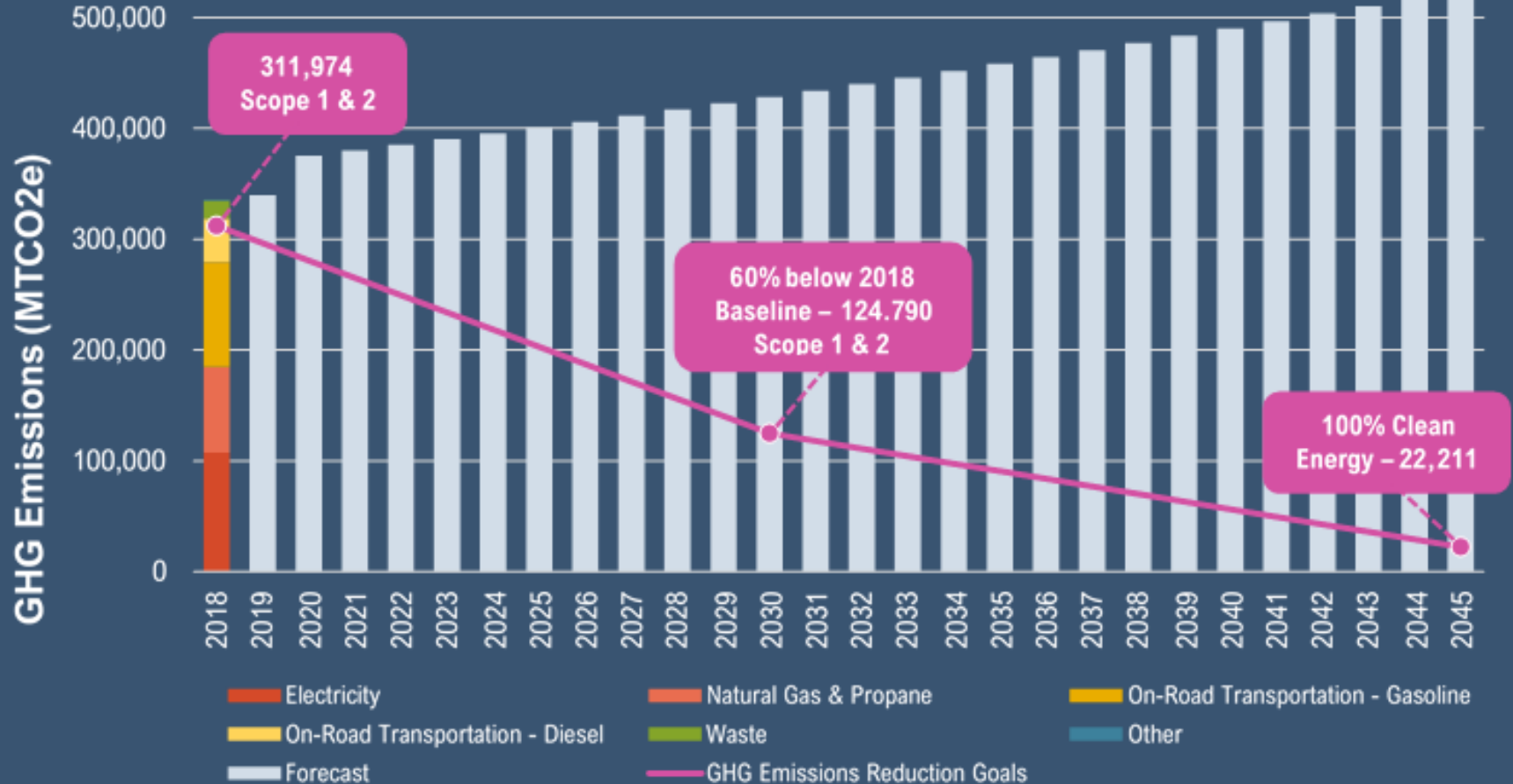
BLAINE COUNTY GREENHOUSE GAS EMISSIONS  
(METRIC TONS CO<sub>2</sub>e)



# GOALS & TIMEFRAME

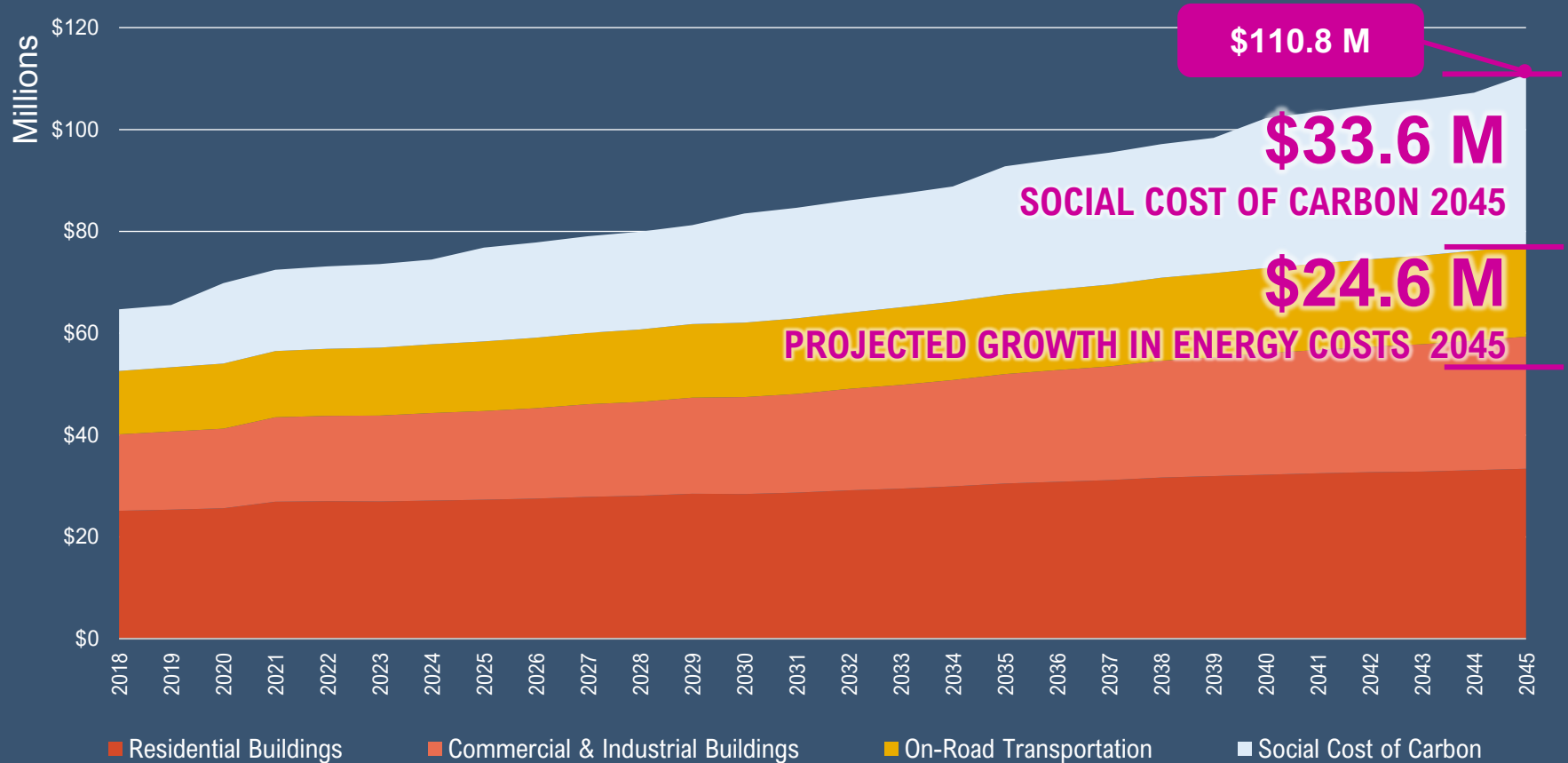


# BUSINESS AS USUAL FORECAST

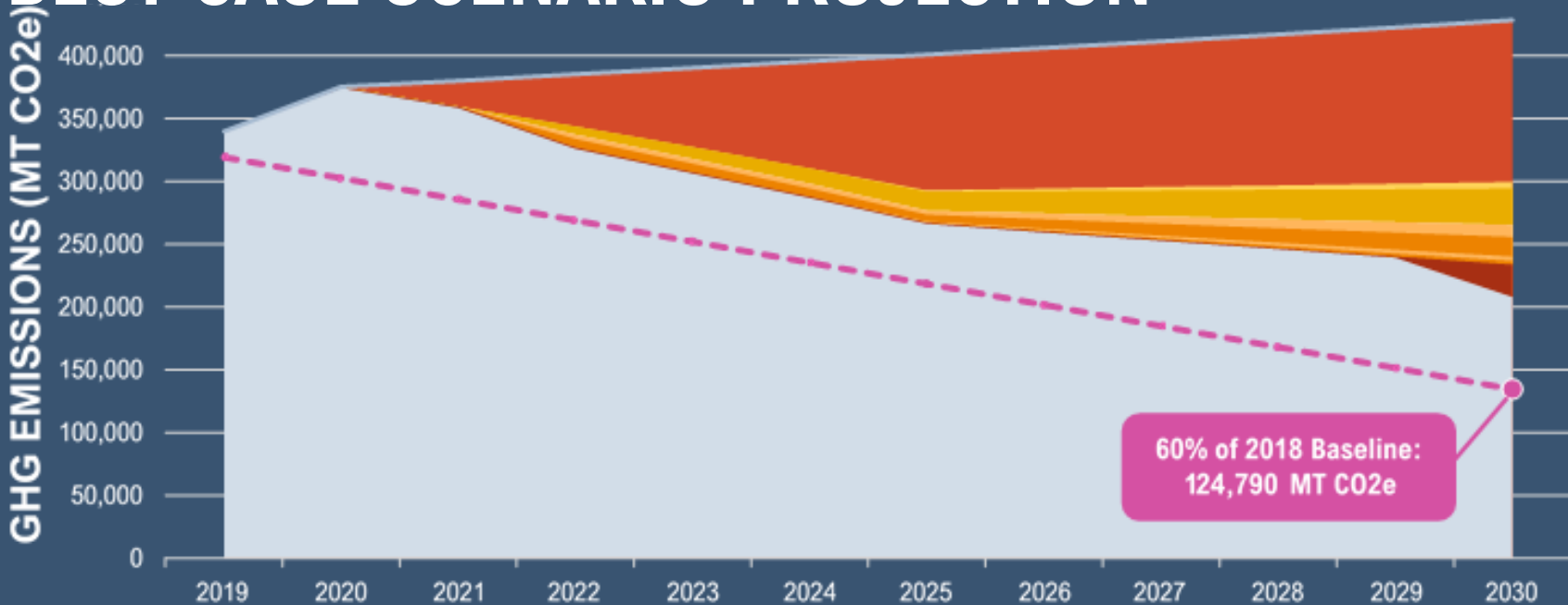


# PROJECTED GROWTH

## ANNUAL ENERGY COSTS & SOCIAL COST OF CARBON



# BEST CASE SCENARIO PROJECTION



- Grid Decarbonization
- On-Road EV Adoption
- Existing Commercial Efficiency & Electrification
- Low-Carbon Commercial New Construction
- Distributed Renewable Energy Resources
- Remaining Emissions
- GHG Emissions Reduction Goals
- Reduced VMT
- Three-Year IECC Code Adoption Cycle
- Existing Residential Efficiency & Electrification
- Low-Carbon Residential New Construction
- Utility-Scale Renewable Energy
- BAU Emissions

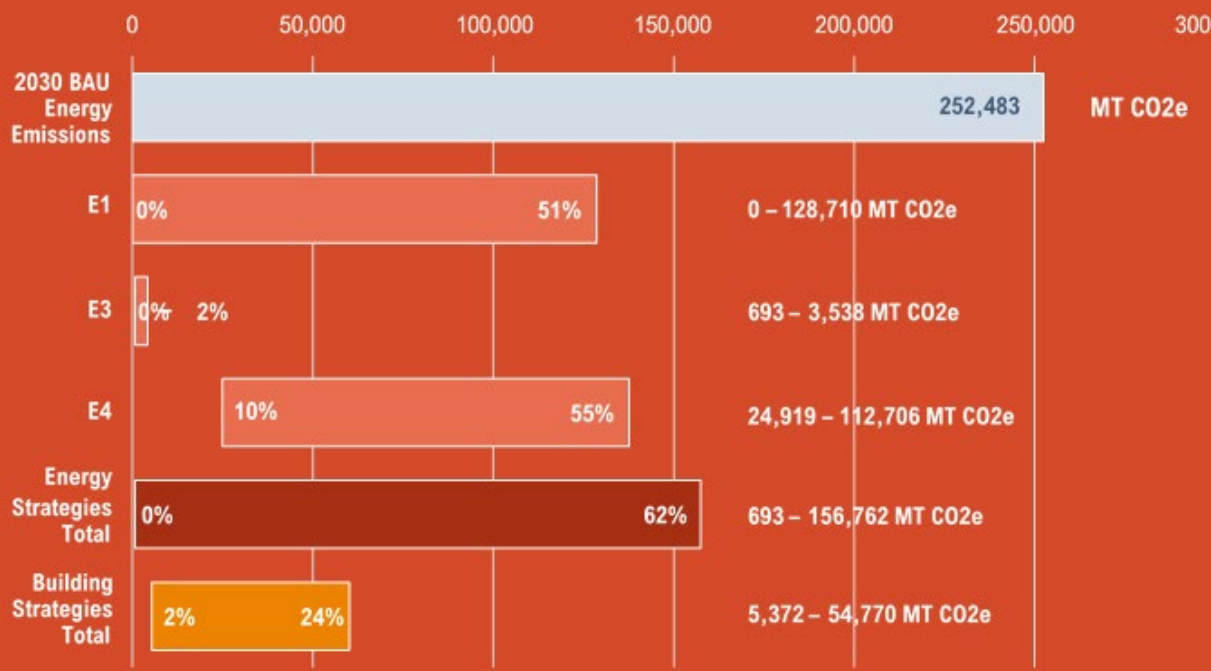


# ENERGY SUPPLY

## High-Impact Strategies

- E1: Reduce Grid Carbon Intensity**
- E2: Switch to Clean Energy for Municipal Electricity Use**
- E3: Expand Local, Distributed Renewable Energy Resources**
- E4: Procure Utility-Scale Renewable Energy**

GHG EMISSIONS & RANGE OF POTENTIAL REDUCTIONS (MT CO2e)







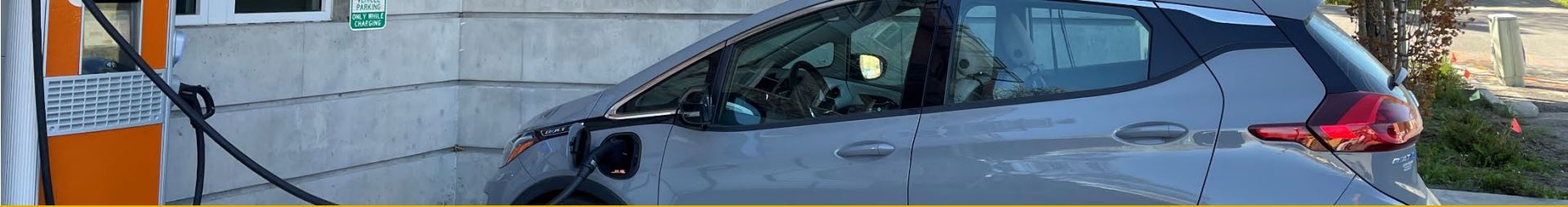
# BUILDINGS

## High-Impact Strategies

- B1: Evaluate Energy Efficiency Gains from BUILDSMART Code**
- B2: Reduce Carbon Footprint of Existing Commercial Buildings**
- B3: Reduce Carbon Footprint of Existing Residential Buildings**
- B4: Low-Carbon Commercial New Construction**
- B5: Low-Carbon Residential New Construction**

GHG EMISSIONS & RANGE OF POTENTIAL REDUCTIONS (MT CO2e)



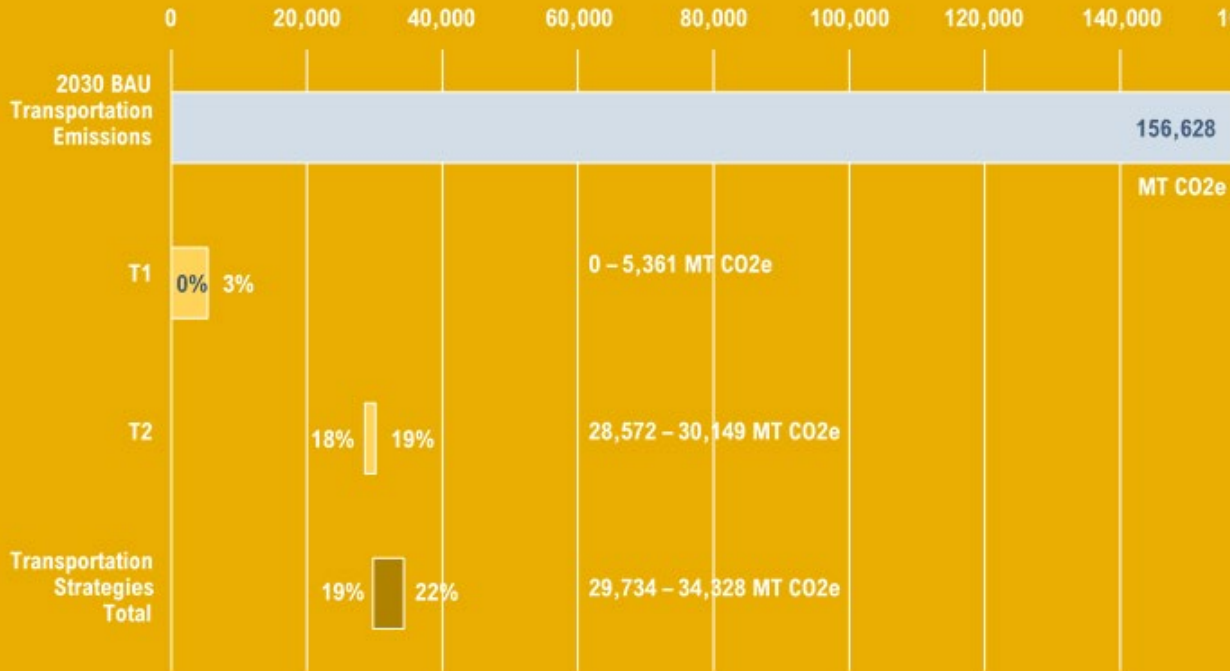


# TRANSPORTATION

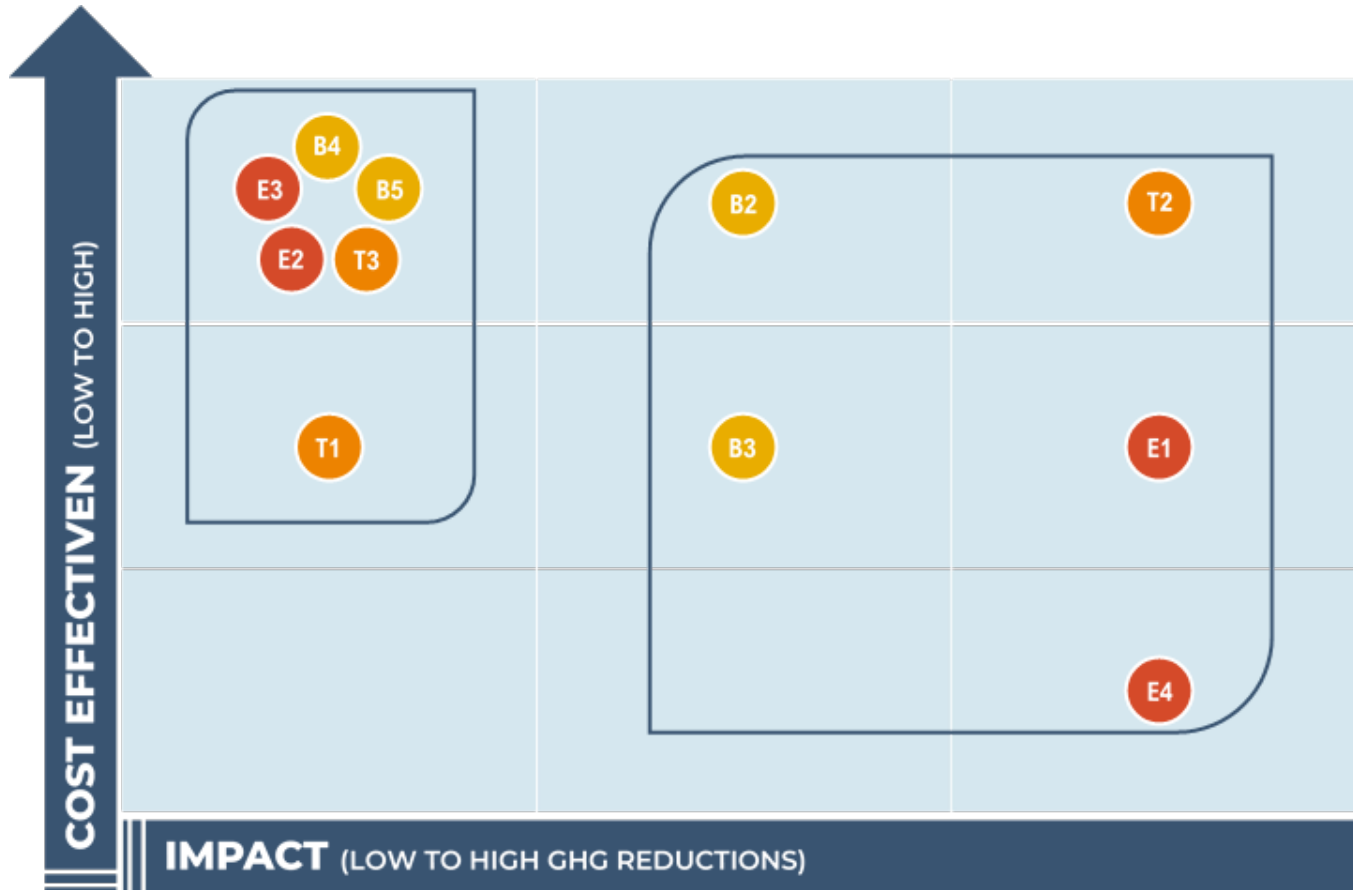
## High-Impact Strategies

- T1: Reduce Vehicle Miles Traveled
- T2: Increase On-Road EV Adoption
- T3: Transition to Clean Municipal Fleets and Equipment

GHG EMISSIONS & RANGE OF POTENTIAL REDUCTIONS (MT CO<sub>2</sub>e)



# COST-IMPACT MATRIX



MATRIX KEY	COST EFFECTIVENESS	IMPACT (GHG REDUCTIONS)
LOW	Low ROI	< 2%
MEDIUM	Cost Neutral	2 to <5%
HIGH	High ROI	> 5%

# BEST IN CLASS – ENERGY SUPPLY

## **E1: REDUCE GRID CARBON INTENSITY**

Develop a coalition of local jurisdictions for the purpose of participating in public utility commission cases.

## **E2: SWITCH TO CLEAN ENERGY FOR MUNICIPAL ELECTRICITY USE**

Install renewable energy systems, or purchase clean energy through a utility program or power purchase agreement.

## **E3: EXPAND LOCAL, DISTRIBUTED RENEWABLE ENERGY RESOURCES**

Reduce cost and regulatory barriers and launch an education and outreach campaign to accelerate solar adoption.

## **E4: PROCURE UTILITY-SCALE RENEWABLE ENERGY**

Utilize franchise agreements or enter into a cooperative agreement with the utility that outlines expectations of collaborative efforts toward achievement of clean energy goals.

# BEST IN CLASS – BUILDINGS

## **B2: REDUCE CARBON FOOTPRINT OF EXISTING COMMERCIAL BUILDINGS**

Develop an energy benchmarking and disclosure policy for municipal and commercial buildings. Develop and launch a locally-branded green business certification program or Better Buildings challenge.

## **B2-3: REDUCE CARBON FOOTPRINT OF EXISTING RESIDENTIAL & COMMERCIAL BUILDINGS**

Create a Property-Assessed Clean Energy financing program to support residential and commercial energy efficiency and clean energy retrofits.

Partner to increase utilization of weatherization programs and expand the local home auditor and weatherization workforce.

## **B4-5: LOW-CARBON RESIDENTIAL & COMMERCIAL NEW CONSTRUCTION**

Create incentives to encourage building electrification, clean energy installations, and low-carbon or net-zero energy buildings.

Develop a community-based education, outreach and marketing campaign to advance all-electric and low-carbon or net-zero energy buildings.

# BEST IN CLASS – TRANSPORTATION

## **T1: REDUCE VEHICLE MILES TRAVELED**

Increase density in the cities and connect cities with transit and multimodal transportation infrastructure.

Provide incentives for mix-use development.

## **T2: INCREASE ON-ROAD EV ADOPTION**

Expand electric vehicle charging infrastructure.

Develop and launch an electric vehicle education, outreach and marketing campaign.

## **T3: TRANSITION TO CLEAN MUNICIPAL FLEETS AND EQUIPMENT**

Develop a green fleets policy and program, including a vehicle replacement schedule.

**QUESTIONS?**

