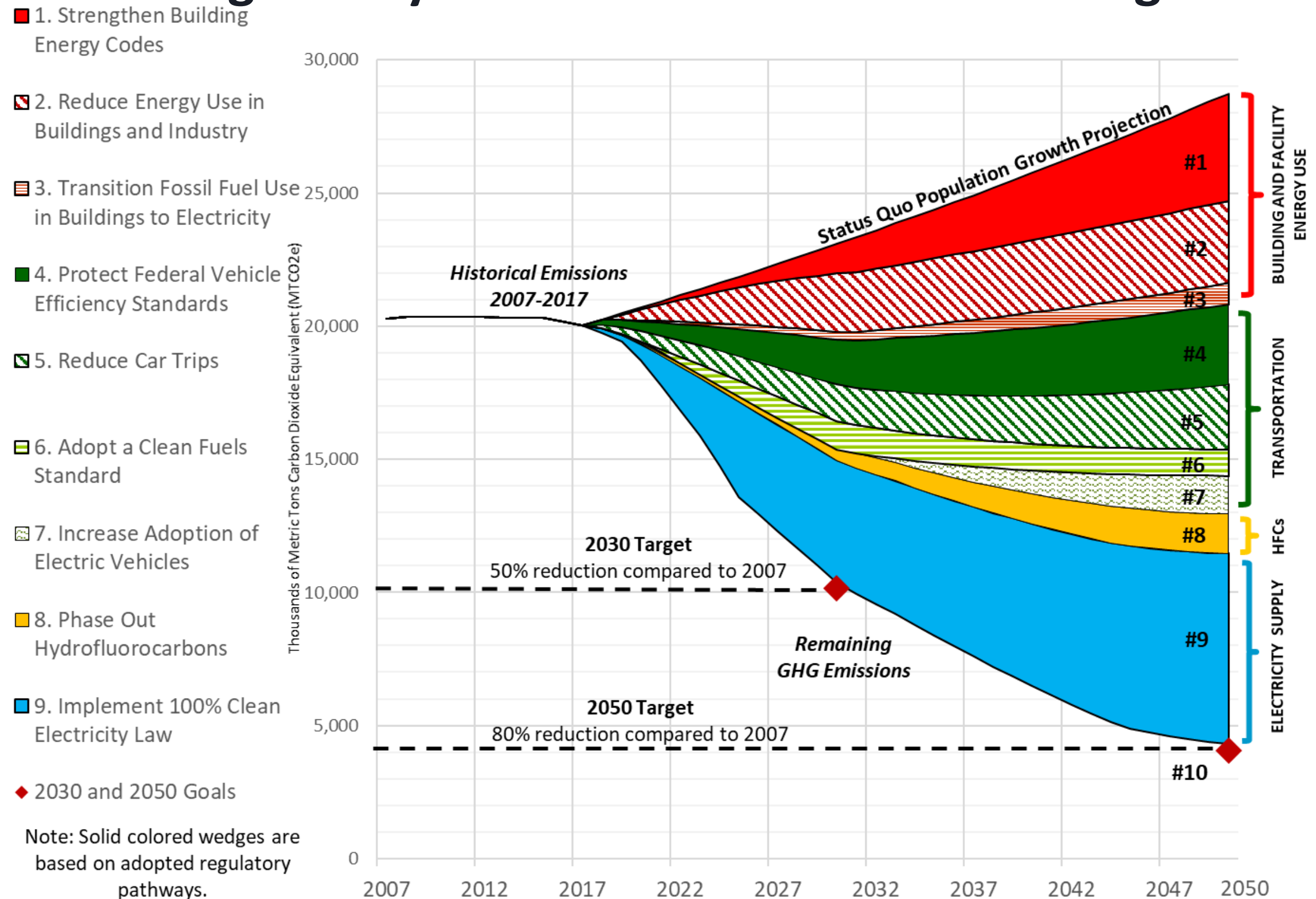


King County Communitywide Greenhouse Gas (GHG) Emissions

Wedge Analysis to Achieve Shared GHG Targets



2030 – What is Modeled?

Population has increased by 324,000 (15%) to 2.44 million

Energy Use

- **Stronger Building Energy Codes:** New buildings are constructed to be nearly fossil fuel free
- **Energy Use:** Existing buildings use 25% less energy and also convert 20% of fossil fuel use to electricity; Industry uses 25% less energy

Transportation

- **More Efficient Vehicles:** All types of vehicles are becoming more efficient per existing Federal Vehicle Fuel Efficiency Standards
- **Reduce Car Trips:** More people take transit, bike and walk; drive shorter distances; and can live closer to where they live, work and play, resulting in 20% decrease in light duty vehicle miles traveled
- **Clean Fuel Standard:** A clean fuels standard is accelerating the transition to cleaner transportation fuel sources (20% reduction in fuel emissions)

Hydrofluorocarbons (HFCs)

- **Phase out Hydrofluorocarbons:** *phase out of HFCs has begun*

Electricity Supply

- **Clean Electricity:** 80% greenhouse gas free energy supplies

2050 – What is Modeled?

Population has increased by 921,000 (43%) to 3.04 million

Energy Use

- **Stronger Building Energy Codes:** New buildings are constructed to be fossil fuel free
- **Energy Use:** Existing buildings use 45% less energy and also convert 80% of fossil fuel use to electricity; Industry uses 45% less energy

Transportation

- **More Efficient Vehicles:** All types of vehicles are more efficient (improvements through 2035) per Federal Vehicle Fuel Efficiency Standards
- **Reduce Car Trips:** More people take transit, bike and walk; drive shorter distances; and can live closer to where they work and play, resulting in 50% decrease in *per person* light duty personal vehicle miles traveled
- **Clean Fuel Standard:** A clean fuels standard is reducing covered transportation fuel source emissions intensities by 20%
- **Electric Vehicles:** 100% of light duty vehicles, 60% of medium duty and 40% of heavy duty vehicles are electric

Hydrofluorocarbons (HFCs)

- **Phase out Hydrofluorocarbons:** *phase out of HFCs is complete*

Electricity Supply

- **Clean Electricity:** 100% greenhouse gas free energy supplies