

Greenhouse Gas Emissions Impact Summary

4/15/2024

BM	Planned Action - Project	Description of Climate and Air Pollution Impact	Estimated GHG Reduction* (lifetime** MTCO2e)	Estimated GHG Reduction* (MTCO2e in 2030)
4	Implement bicycle infrastructure as determined in the Active Modes plan (Centre Ave)	reduction of VMT and therefore fuel usage (GHG and non-GHG air pollutants)	~2,120 - 10,680	~100 - 515
4	Implement bicycle infrastructure as determined in the Active Modes plan (Laporte Ave)	reduction of VMT and therefore fuel usage (GHG and non-GHG air pollutants)	~2,480 - 12,660	~120 - 600
4	Mobility Hubs Plan development	foundational / needed next step for reduction of VMT by making active modes and transit trips easier	<i>foundational***</i>	<i>foundational</i>
4	Transportation Emissions Reduction Strategy Tool development	foundational / needed next step for reduction of VMT by being able to better prioritize and estimate impacts of transportation-related projects	<i>foundational</i>	<i>foundational</i>
6	Comprehensive exterior lighting retrofits at City Recreation Centers	increased efficiency and resulting reductions in electricity usage	373	24
6	Expand Mobile Home Park Mini-grant through Neighborhood Services	supports residents in increasing energy efficiency in their homes (reducing electricity and/or natural gas use)	~2,450	~125
6	Fund Healthy Homes Program	supports residents in reducing indoor air pollutants and increasing energy efficiency in their homes (reducing electricity and/or natural gas use)	~100	~5
6	Introduce new capital for utilities Epic Loans program	foundational / needed next step for increasing efficiency of buildings and therefore reducing electricity and natural gas use	~925	~70
6	Identify and determine critical support needed to upgrade under-resourced buildings, focusing on commercial / multi-family buildings	foundational / needed next step for increasing energy efficiency of buildings and therefore reducing electricity and natural gas use	<i>foundational</i>	<i>foundational</i>
7	Launch grants to offset utility fees for affordable housing development, particularly electric and water	makes energy efficient development more economically feasible for affordable housing providers; has potential to reduce VMT by making it easier for people to live and work in the same community	<i>foundational</i>	<i>foundational</i>
9	Expand Scholarship Program for Builders and Building Industry to meet new industry techniques and future codes	foundational / needed next step for increasing efficiency of buildings and therefore reducing electricity and natural gas use	<i>foundational</i>	<i>foundational</i>

10	Business support for plastic and styrofoam transition through NocoBIZ Connect	supports a transition to a circular economy	<i>foundational</i>	<i>foundational</i>
11	Poudre River Health Assessment	supports carbon sequestration through improved soil and riparian health	~20,000	<i>de minimus</i>
12	Repair Riverside Community Solar Array	increases renewable electricity	7,832	490
12	Add Solar PV System at City Facility - new fueling canopy and shop expansion at Wood Street	increases renewable electricity	540	19
13	Replace existing Parks Utility Carts with electric Utility carts	reduces fuel use and therefore reduces GHG and non-GHG air pollutants	~100-200	~5-10

Please note that the summary provided to Council on Tuesday, April 9th only included the **high confidence estimates**.

* **100 MTCO_{2e}** is approx. equivalent to the emissions generated from **13 single-family homes' energy use** in one year (EPA Equivalencies Calculator)

** In these calculations, "**lifetime**" varies from **15-25 years**, depending on the project.

*** Our Climate Future defines "**foundational**" as a necessary next step to for future GHG reduction.

Key
high confidence
medium confidence
low confidence