

OCF Pathways – Descriptions and Methodology

The tables below summarize each of the Next Moves (strategies) that was quantified and included in one of the six pathways, including greenhouse gas or waste potential reduction, the tool or implementation mechanism, and the City’s role in that strategy.

Staff developed a tool called the Moves Assessment to complete these quantifications, and which also holds progress updates and status, links to Big Moves and Pathways, funding, project lead, and several classifications (e.g., implementation mechanism as shown below). The reports below are the outputs of this tool, and are easily adjusted as staff receives new data and assumptions. Staff can provide more information about this tool if requested.

Table 1: Greenhouse gas reduction potential of Pathways.

Pathway	Next Move	Implementation Mechanism	City's Role in Implementation	Community Emissions Avoided in 2030 (MTCO ₂ e)
Buildings				350,796
Construction	0043: Develop and Implement an energy performance path for new construction to zero carbon building by 2030	Regulatory	Direct	7,889
Electrification	0045: Continue to provide and expand on programs for electrification of space and water heating	Economic	Incentivize	6,471
Performance	0044: Continue to provide and expand home and business efficiency programs	Economic	Incentivize	237,531
	0077: Add performance standards to Building Energy and Water Scoring program	Regulatory	Direct	81,752
	0088: Implement residential Home Energy Score point of listing requirement	Regulatory	Direct	4,017
	0091: Implement a rental licensing or registry with minimum standards for health, safety, stability, and efficiency	Regulatory	Direct	13,136
Electricity				579,944
Local Renewables	0015: Continue to implement and expand distributed solar programs	Economic	Incentivize	34,476
Utility Renewables	0012: Add utility-scale renewables to increase non-carbon generation	Infrastructure	Influence	545,468
Land Use				1,256
Capacity	0040: Evaluate and implement land use opportunities that encourage “15 minute neighborhoods”	Planning	Direct	1,256
Industry				98,430
Manufacture	0042: Support incentives and regulation to reduce industrial (air pollution) emissions	Partnership	Influence	98,430

Transportation				106,237
Active Modes	0035: Continue to build bicycle facilities as identified in the Bicycle Master Plan	Infrastructure	Direct	38,146
	0468: Implement a Transportation Demand Management (TDM) program	Infrastructure	Influence	2,576
Electrification Transit	0019: Transition to emissions-free public transit	Infrastructure	Direct	1,481
	0020: Support market driven adoption of electric cars	Infrastructure	Inform	58,761
	0037: Expand local public transit coverage and frequency	Infrastructure	Direct	5,273
Waste				38,544
Organics	0023: Implement a Composting Ordinance and Related Composting Infrastructure/Facilities for Food Scraps	Regulatory	Influence	20,200
	0024: Implement a Composting Ordinance and Related Composting Infrastructure/Facilities for Yard Trimmings	Regulatory	Influence	18,344
Total				1,175,207

Table 2: Reduction of landfilled material from Pathways.

Pathway	Next Move	Implementation Mechanism	City's Role in Implementation	Community Waste Avoided in 2030 (short tons)
Waste				62,374
Industrial Diversion	0008: Further reuse and recycle soil from City projects	Infrastructure	Direct	7,505
	0075: Increase compliance of existing construction and demolition waste regulations	Regulatory	Direct	12,106
	0467: Implement construction and demolition waste policy to direct materials to new facility	Infrastructure	Influence	40,354
Organics	0023: Implement a Composting Ordinance and Related Composting Infrastructure/Facilities for Food Scraps	Regulatory	Influence	9,249
	0024: Implement a Composting Ordinance and Related Composting Infrastructure/Facilities for Yard Trimmings	Regulatory	Influence	17,241
Total				86,455

Descriptions and brief methodology of each the Next Moves included in the Pathways above:

Next Move ID	Name	Description
0008	Further reuse and recycle soil from City projects	Based on findings from earlier evaluation, protect existing soil storage areas for managing and processing City-generated soils and explore additional temporary or permanent sites. Explore process changes and other tools to divert material from the landfill. Future work could look at other industrial materials beyond soil.
0012	Add utility-scale renewables to increase non-carbon generation	Platte River's 2022 integrated resources plan shows reaching nearly 90% non-carbon resources by 2030. Forecasting for this next move is updated regularly using the latest information for changes in PRPA resources.
0015	Continue to implement and expand distributed solar programs	Continue and expand rooftop solar through general solutions for rates, incentives and interconnection (residential and commercial)
0019	Transition to emissions-free public transit	This Next Move is based on phase one of Transfort's Fleet Electrification Planning Project, intended to find the most feasible technology to adopt to successfully transition the transit fleet to 100% zero emission – battery electric buses (depot charging and/or on route charging), hydrogen electric or a mixed fleet.
0020	Support market driven adoption of electric cars	EV adoption scenario scales the state goals to Fort Collins based on population. The adoption rates over time uses a 40% annual increase each year between 2022 and 2030.
0023/0024	Implement a Composting Ordinance and Related Composting Infrastructure/Facilities for Food Scraps	Continued exploration of a Composting Ordinance and related facilities entails: <ul style="list-style-type: none"> • Collaborating through Regional Wasteshed to identify opportunities to accelerate development of yard trimmings and food scraps composting facilities. • Commencing policy development regarding yard trimmings and food scraps per Council direction Two key elements are required to move this forward: <ol style="list-style-type: none"> 1) having a compost facility near Fort Collins that accepts food scraps 2) having policy for yard trimmings and / or food scraps.
0035	Continue to build bicycle facilities as identified in the Bicycle Master Plan	This Next Move bridges the 2014 Bicycle Master Plan and the Active Modes Plan that is currently being updated.
0037	Expand local public transit coverage and frequency	This Next Move references the expansion of local transit described in the 2019 Transit Master Plan.
0040	Evaluate and implement land use opportunities that encourage "15 minute neighborhoods"	With a variety of housing options, access to services and amenities, walkable infrastructure, and proximity of housing to jobs
0042	Support incentives and regulation to reduce industrial (air pollution) emissions	This is a State role, but aligns with current AQ work regarding advocacy for State/Federal policy and voluntary emissions reductions. This Next Move assumes more direct engagement and collaboration with the private sector, particularly big companies with a high contribution to climate change.
0043	Develop and implement an energy performance path for new construction to zero carbon building by 2030	Enhance building codes likely exceeding the current pace of the International Energy Conservation Code (IECC) code adoption process. Performance based codes, also referred to as outcome-based codes, require that building design and engineering meet specific building energy use standards, which is verified through modeling.
0044	Continue to provide and expand home and business efficiency programs	Continue and expand investment in energy efficiency equipment and other strategies within business and homes. Continue to leverage Platte River, State, and Federal funding and optimize utilities procedures and standards to drive increased achievements.
0045	Continue to provide and expand on programs for electrification of space and water heating	An incentive driven approach for residential and commercial community members to upgrade their building to all-electric. Analysis includes the potential fuel switching from promoting existing heat pump and heat pump water heater incentives

		in both the existing residential and commercial building stock. This is in addition to the energy codes which would require new construction and major renovations be carbon free by 2030.
0075	Increase compliance of existing construction and demolition waste regulations	Ordinance requires that C&D debris must be recycled or reused. This strategy improves compliance through additional compliance staffing to make site visits and increase proactive compliance.
0077	Add performance standards to Building Energy and Water Scoring program	The Building Energy and Water Scoring program currently requires building owners to track their energy use using Energy Star Portfolio Manager online tool, and it is subsequently made public for increased market transparency. A building performance standard could enhance the program by establishing minimum energy requirements for commercial buildings, likely a % reduction from a baseline year.
0088	Implement residential Home Energy Score point of listing requirement	Require the disclosure of residential building performance at the time of home sale. This would provide additional information to the market and also influence home performance upgrades, ultimately resulting in a better residential building stock. Other cities and jurisdictions across the country have this requirement, including Portland, Oregon.
0091	Implement a rental licensing or registry with minimum standards for health, safety, stability, and efficiency	Implementing City-wide rental licensing that is regularly checked/enforced for meeting minimum energy, health and safety codes. This strategy would likely be developed with a community stakeholder group to evaluate such things as required energy assessments, or minimum requirements using the Home Energy Score developed by Department of Energy. Other cities and jurisdictions across the country have required similar efforts, including Boulder, Colorado.
0467	Construction and Demolition waste policy	This strategy would ensure material from Fort Collins reaches the new regional sorting facility. This policy has already been enacted in the Building Code and is triggered by the operation of the sorting facility. Staff recommends a final and routine policy check before the policy begins directing material to the facility.
0468	Implement a Transportation Demand Management (TDM) program	The Shift Your Ride Travel Options program is currently funded in the 2023-24 City Manager's recommended budget. Shift Your Ride is a Transportation Demand Management (TDM) program, which employs policies, programs, information, services, and tools to reduce drive-alone trips and facilitate a shift to sustainable transportation choices. Potential GHG reductions were modeled using a standard VMT calculator.