



Clean Energy Partnership

Q4 EVAC Meeting

December 6, 2021



2022-2023 EVAC Appointments

Returning Members

NAME	WARD	REPRESENTING
Margaret Cherne-Hendrick	8	Fresh Energy
Timothy DenHerder-Thomas	9	Cooperative Energy Futures
Marcus Mills	3	Community Power; Black Visions
John Farrell	11	Institute for Local Self-Reliance
Leah Hiniker	6	Hennepin County
Mauricio Leon	N/A	Local government climate policy perspective
Patty O'Keefe (Co-Chair)	8	Sierra Club
Jon Kuskie	N/A	Piedmont Office Realty Trust / BOMA Greater Minneapolis
Jamez Staples	5	Renewable Energy Partners
Elizabeth Turner	1	Precipitate, PLLC
Ansha Zaman	9	Center for Earth, Energy and Democracy (CEED)

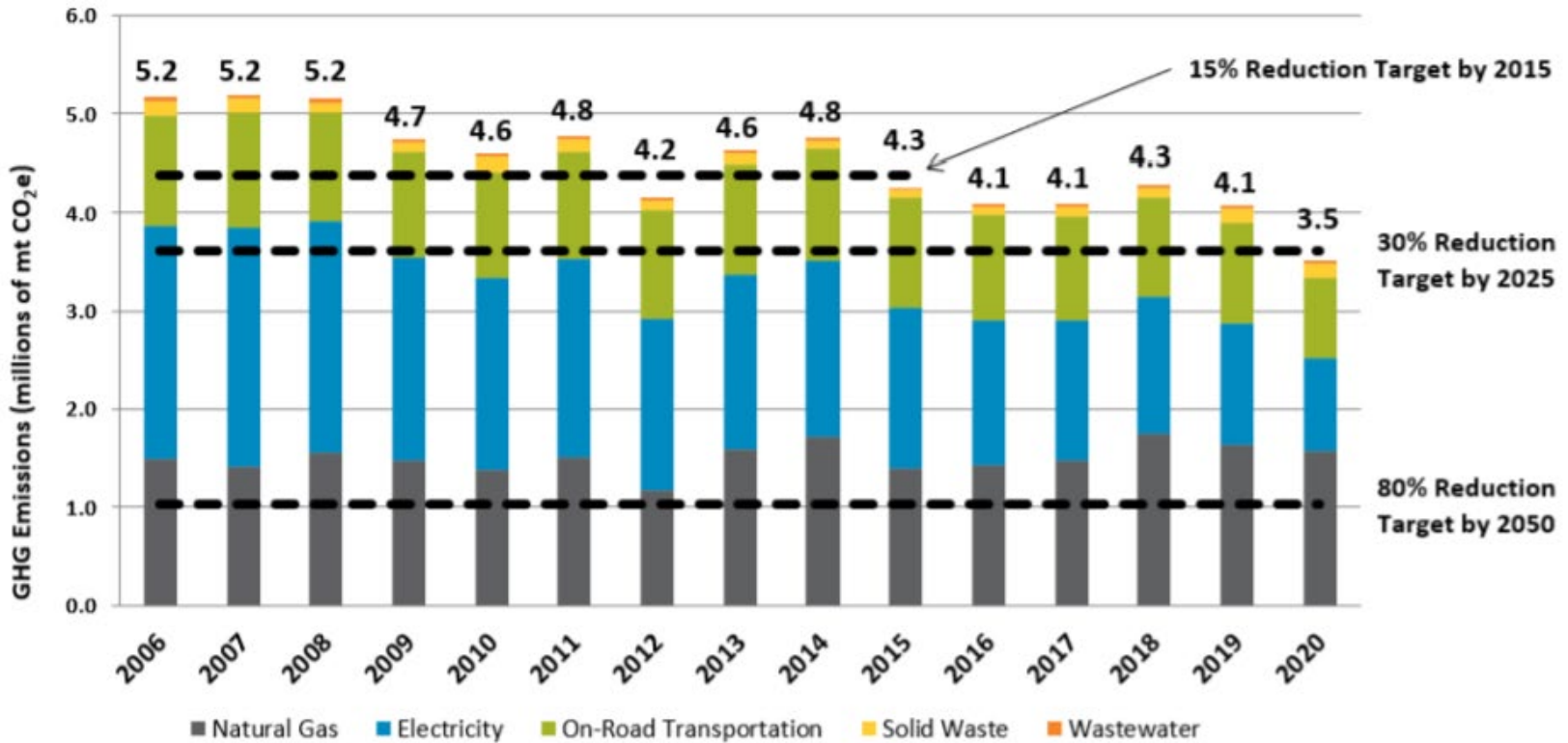
New Members

NAME	WARD	REPRESENTING
Beth Tomlinson	2	Stantec Consulting Services
Natalie Townsend	2	Self / Fresh Energy
Molly Janis	1	Center for Energy and Environment (CEE)
Katie Jones	10	Center for Energy and Environment (CEE)



Work Plan Development Update

Minneapolis Greenhouse Gas (GHG) Emissions from Citywide Activities





Minneapolis 2019-2021 CEP Continuing Activities

2019-2021 CEP Activity	2022-2023
EE.1: Reduce Natural Gas Use For Residential Customers	<ul style="list-style-type: none">• Collaborate on data driven targeted marketing• Develop/promote Instant Rebate for Insulation Rebates
EE.4: Field Test EE and Carbon Capture Technology	<ul style="list-style-type: none">• Acquire Permitting and Install Technology at City Facility
EE.5: Support Residential Energy Disclosure Policies by Making Data Accessible with Tools	<ul style="list-style-type: none">• Engage in Regulatory Proceeding for 1-4 unit implementation solution• Support Ordinance Implementation through management of Utility data access tools• Roll-out and trouble shooting of 5+ units
RE.1 Install Electric Vehicle Infrastructure for City Fleet	<ul style="list-style-type: none">• Finalize an implementation plan with program designers and begin installation• Charging infrastructure will likely be installed at the Aldrich facility, Fridley Water Plant, and Federal Court House Ramp
IF.1: Improve Access to EE by Providing Inclusive Financing	<ul style="list-style-type: none">• Engage in Regulatory Proceeding



Minneapolis 2019-2021 CEP Continuing Activities

2019-2021 CEP Activity	2022-2023
<p>RE.3 Provide Solar Garden and Energy Efficiency Opportunities for Income Qualified Customers</p>	<ul style="list-style-type: none">• Grantee will construct Community Solar Garden in 2022 using RDF funding.• Subscribers and participants in the energy efficiency roll-out plan may be identified through the City's 4D program.• Parties will work together on income qualified energy efficiency engagement in the surrounding community at the appropriate build stage of the community solar garden, likely in the second or third quarter of 2022

Minneapolis Priorities for the Next Work Plan

Description:

Priorities

- 30% Local Distributed Solar by 2030
- Beneficial Electrification of Natural Gas End Uses
- Deep Energy Efficiency with Community Benefits

Strategy

- Fewer Projects, but Larger Impact
- Increase Equity and Inclusion
- Greater Engagement and Collaboration with EVAC
- Rolling Development and Implementation with NGIA/ECO/Regulatory Process



PRIORITY: 30% LOCAL DISTRIBUTED SOLAR BY 2030

PROPOSER	CONCEPT
City	<p>Xcel and the City partner to create an environment that removes barriers, innovates, and fosters new development. To create supportive environment, undertake the following:</p> <ul style="list-style-type: none">• Partner on a Municipal Operations Special Project• Add Solar and Electrification Measures to the Inclusive Financing Pilot• Eliminate any Unreasonable Interconnection Delays within Xcel• Lobby Jointly For Expanded Solar Incentive Programs
Xcel Energy	<p>Xcel Energy and the City collaborate to advance the <i>Resilient Minneapolis</i> Projects (RMP), a \$9M PUC proposal for solar + storage at these Mpls BIPOC led organizations for community resiliency.</p> <ul style="list-style-type: none">• Renewable Energy Partners: North Minneapolis Community Resiliency Hub• Sabathani Community Center• Minneapolis American Indian Center



PRIORITY: BENEFICIAL ELECTRIFICATION OF NATURAL GAS END USES

PROPOSER	CONCEPT
CenterPoint	Cost-effective fuel switching pilot, program, or services (ECO Enabled). Residential deep energy retrofits and cold-climate, gas and electric air-source heat pumps pilot (NGIA Enabled).
City	Electrification and fuel switching pilots/programs should be co-created with the City and EVAC. Optimization of pilots to Minneapolis' building stock and customers should be prioritized; City is a very willing partner.
Xcel Energy	Xcel Energy submitted a letter of support to the City for Bloomberg grant funding and established our long-term commitment to provide wood from our tree trimming to feed the City's facility. Xcel Energy and the City will continue to collaborate on this initiative.



PRIORITY: DEEP ENERGY EFFICIENCY WITH COMMUNITY BENEFITS

PROPOSER	CONCEPT
City	Partners commit to a community-based residential EE pilot that builds toward a universal energy savings program serving homeowners, renters, and property owners alike. CIP funding would contract local community orgs and residents to provide comprehensive support to customers throughout their entire EE journey, from initial outreach to no upfront cost project completion. Collaborate with EVAC and the Peer Learning EE Cohort in pilot design, and support implementation of the Cohort’s CARD research project’s findings.
Xcel Energy	Partners to collaborate on an electric heat deep energy retrofit pilot focused on income qualified multi-family buildings. The pilot is an initial energy efficiency project until guidelines for the ECO Act is established, and a larger efficient fuel switching initiative can be developed.

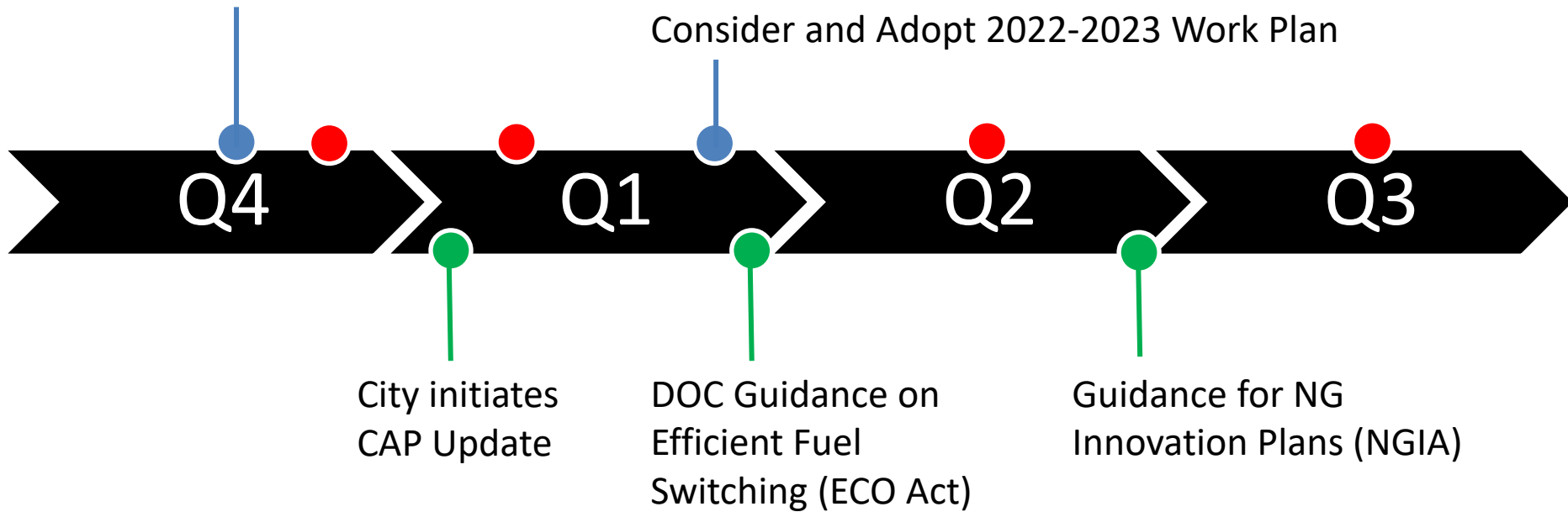


PRIORITY: DEEP ENERGY EFFICIENCY WITH COMMUNITY BENEFITS

PROPOSER	CONCEPT
CenterPoint	<p>Work Plan Goal: 57,000 Dth* saved or 3,016 MTCO₂e emissions avoided, through new and expanded programs:</p> <ul style="list-style-type: none">• 2022-2023 Increase residential and commercial CIP• Deep residential retrofit pilot (NGIA Enabled)• Commercial thermal audit (NGIA Enabled)• Innovative Resources for Industrial Processes (NGIA Enabled)• District energy pilot (NGIA Enabled) <p>*Increase of 10% from CIP 3-year average</p>

Work Plan Development

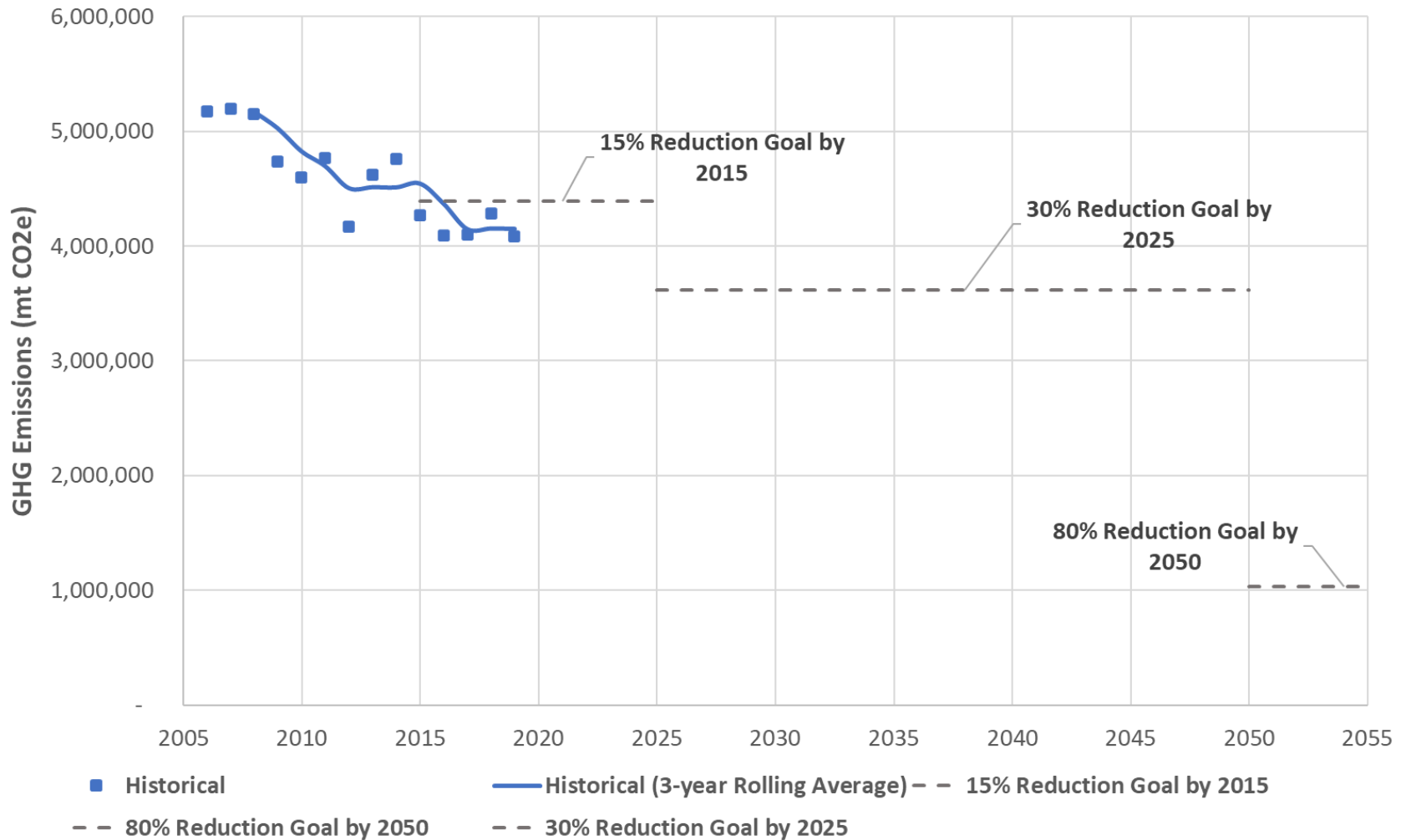
Today: Discuss Draft Partnership Activity Concepts.



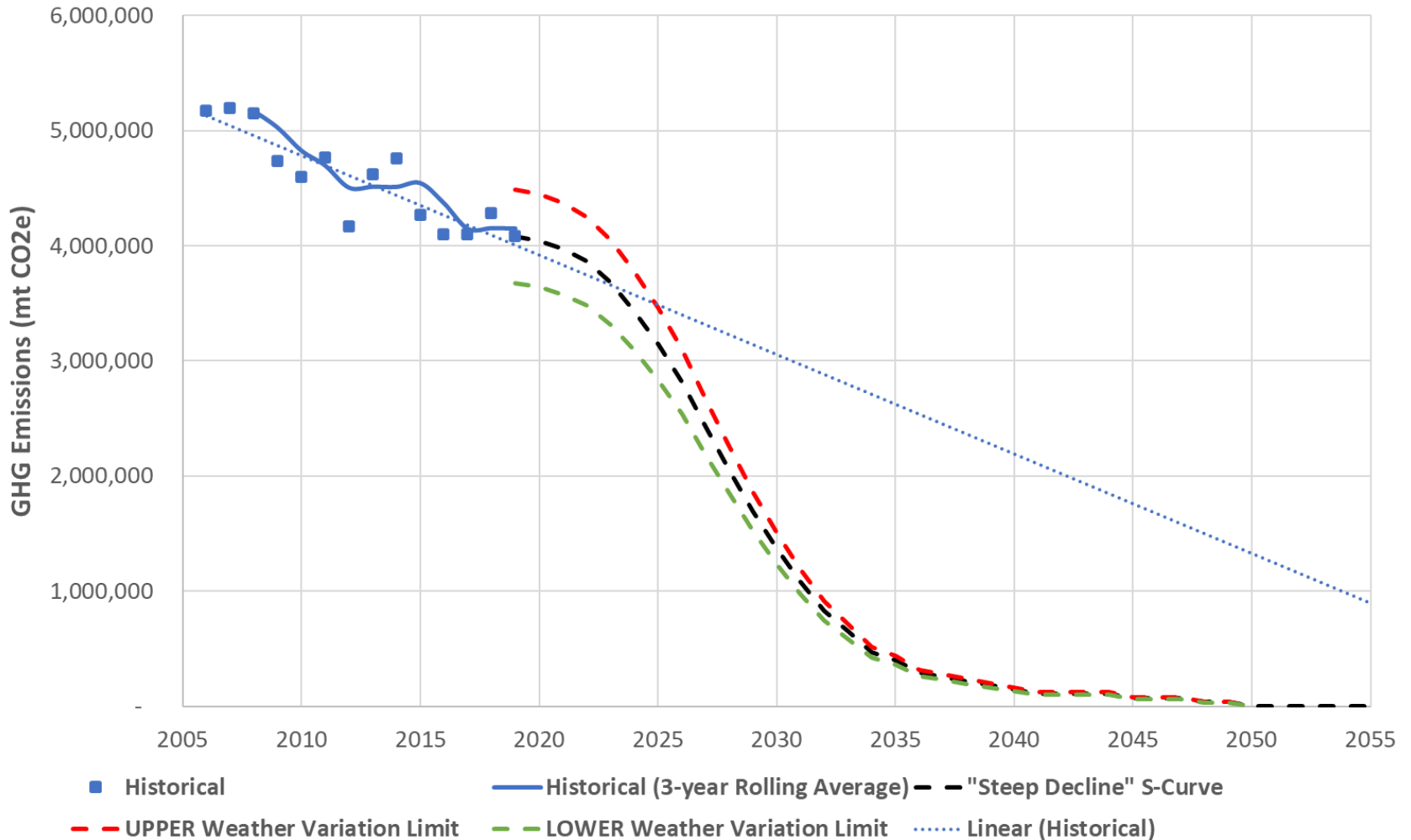


Minneapolis Climate Action Plan Updates

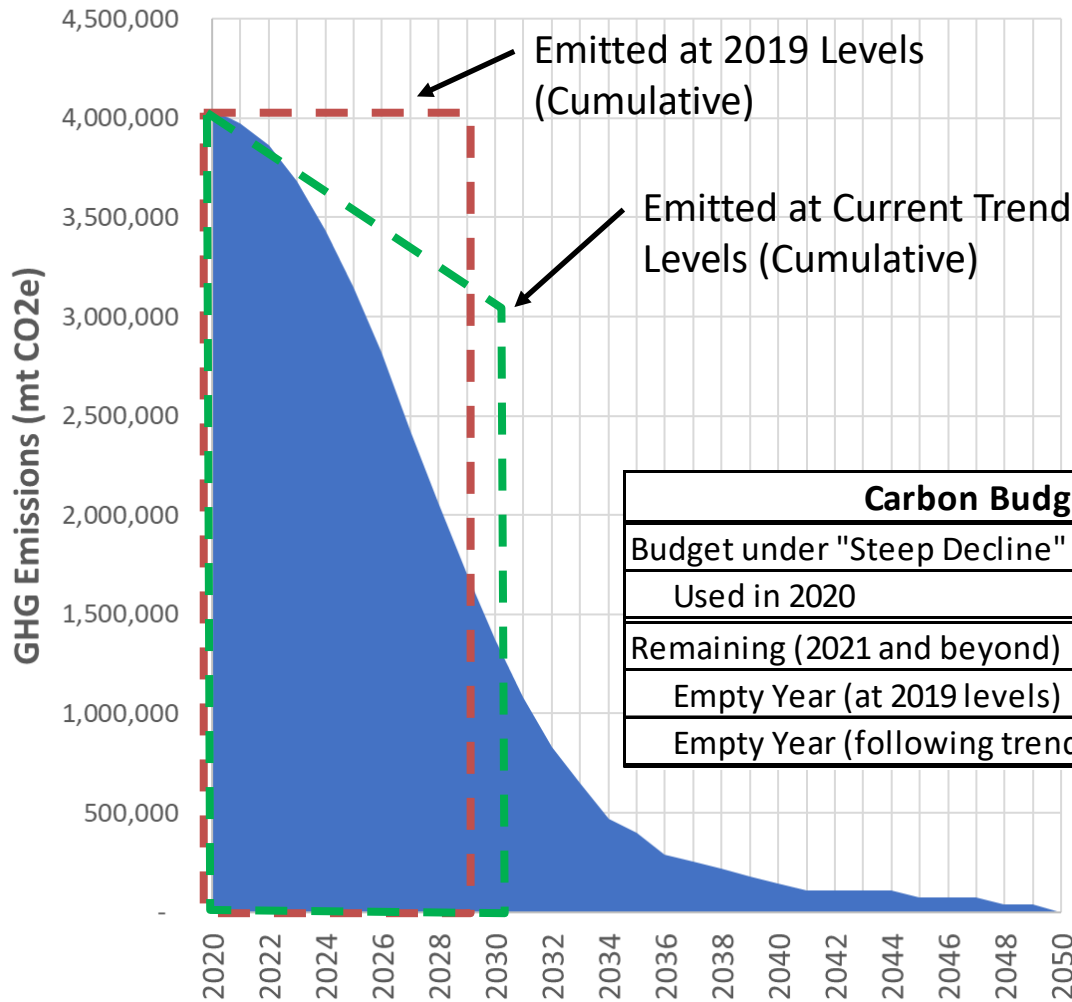
Minneapolis Community-wide GHG Emissions - Historical and Current Climate Action Plan Targets



Minneapolis Community-wide GHG Emissions - Historical, Trend, and Science-based Fair Share Target



Minneapolis Community-wide "Carbon Budget"



Carbon Budget for 2020's, 2030's, and 2040's		
Budget under "Steep Decline" S-Curve	37,752,463	mt CO2e
Used in 2020	3,516,431	mt CO2e
Remaining (2021 and beyond)	34,236,031	mt CO2e
Empty Year (at 2019 levels)	2029	
Empty Year (following trendline)	2030	