



2023 Annual Report To City Council

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SAINT PAUL CLIMATE ACTION & RESILIENCE PLAN

A FRAMEWORK FOR OUR COMMUNITY
TO ADDRESS THE IMPACT OF CLIMATE CHANGE



DECEMBER 2019

City of Saint Paul Mayor
Melvin Carter



IRA and IIJA are Game-Changing

THE WHITE HOUSE



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INFLATION REDUCTION ACT GUIDEBOOK

 [CLEAN ENERGY](#)

[Download the Inflation Reduction Act Guidebook](#)

On August 16, 2022, President Biden signed the Inflation Reduction Act into law, marking the most significant action Congress has taken on clean energy and climate change in the nation's history.

With the stroke of his pen, the President redefined American leadership in confronting the existential threat of the climate crisis and set forth a new era of American innovation and ingenuity to lower consumer costs and drive the global clean energy economy forward.

The Inflation Reduction Act is aimed squarely at building a better America

[CLEAN ENERGY FOR ALL](#)

[Clean Energy Updates](#)

[Inflation Reduction Act Guidebook](#)

[Clean Energy Tax Provisions in the Inflation Reduction Act](#)

[EV Acceleration Challenge](#)

[Funding for Tribes in the Inflation Reduction Act](#)



Breakdown of IRA Funding (\$369 Billion)

Figure 1. Energy supply receives about half of IRA resources, with significant investments in clean manufacturing and housing (billions of dollars)

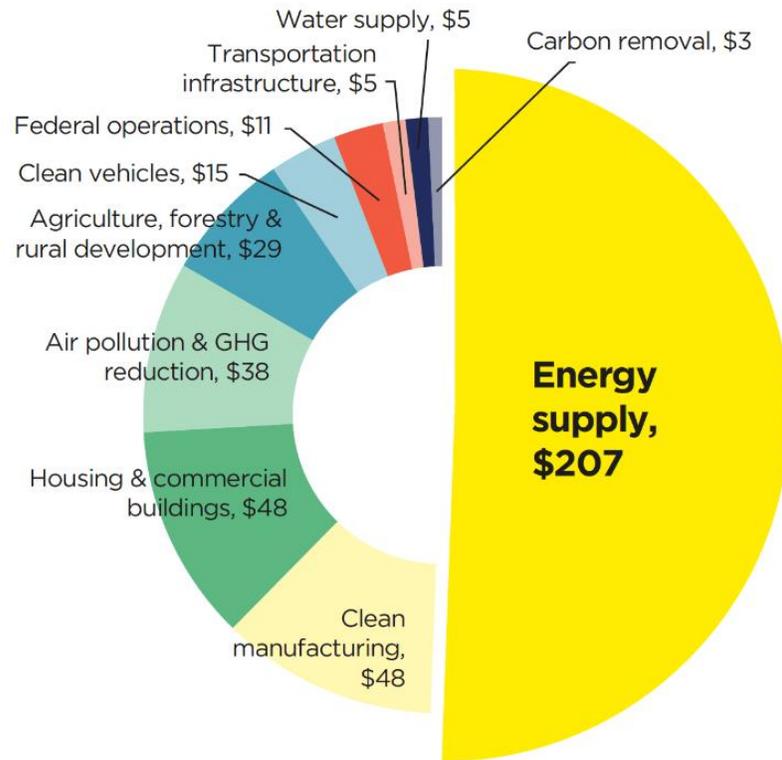
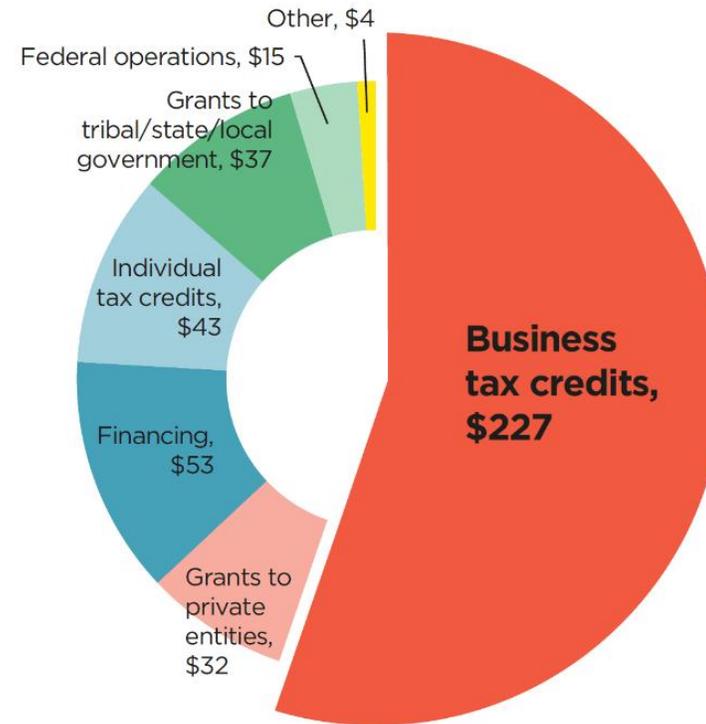


Figure 2. The largest share of IRA funding will be available as tax credits to businesses (billions of dollars)



Allocation of Funds for Local Governments

Environmental Protection Agency	
Program	Funding
Climate Pollution Reduction Grants	\$5 billion
GHG reduction fund (Green Bank)	\$27 billion
Low Emissions Electricity Outreach Program	\$87 million
Environmental Justice Block Grants	\$3 billion
Clean Heavy-Duty Vehicles Grants and Rebates	\$1 billion

Department of Energy	
Program	Funding
EECBG	\$317,800 (STP)
Buildings Up!	\$150 million
Housing and Urban Development	
Program	Funding
Improving Energy Efficiency, Water Efficiency, or Resilience of Affordable Housing	\$880 million

Allocation of Funds for Local Governments

Department of Transportation	
Program	Funding
Neighborhood Access and Equity	\$3 billion

USDA/USFS	
Program	Funding
Urban and Community Forestry Assistance Program	\$1.5 billion

Tax Incentives:

- Investment tax credit for clean electricity (uncapped)
- Production tax Incentive for clean electricity (uncapped)
- High efficiency electric home rebate program (\$4.5 billion)
- Residential energy efficiency tax credit (uncapped)
- Home Owner Managing Energy Savings (HOMES) Program (\$4.3 billion)
- Residential clean energy tax credit (uncapped)



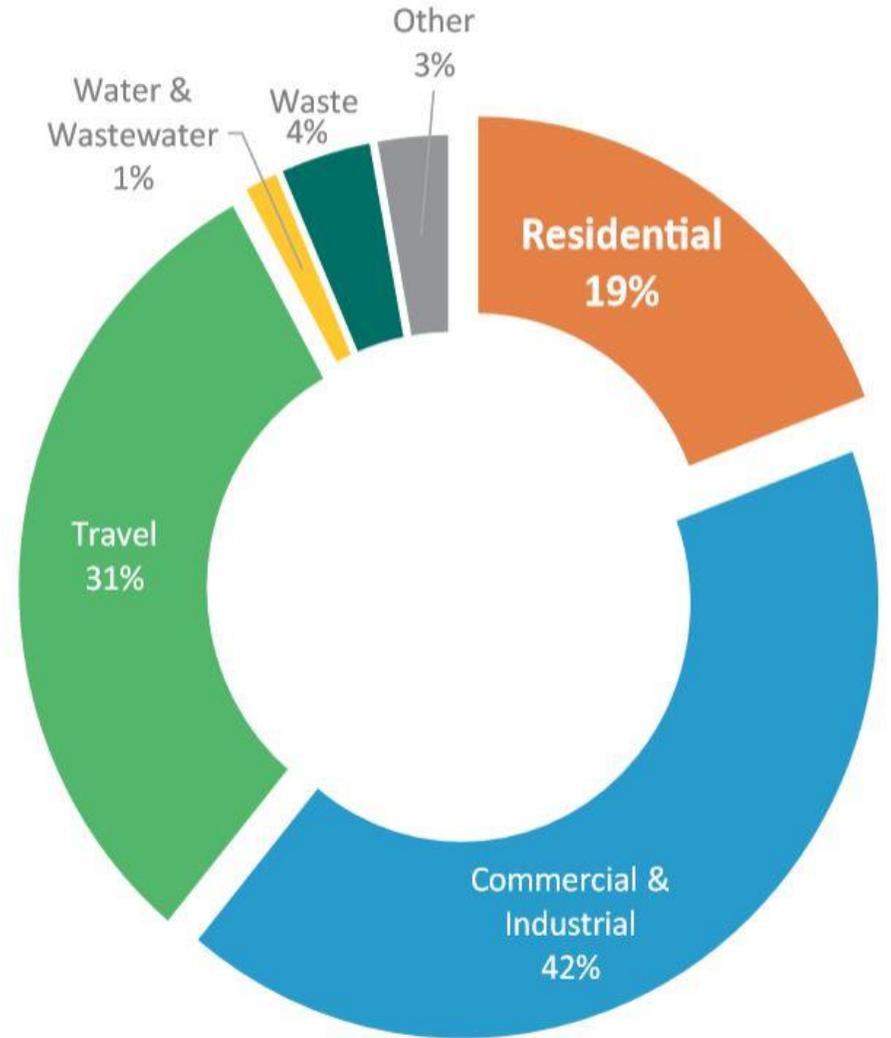
IPCC Dire Warnings

- 1.5 Degree Celsius Increase by early 2030's
- Significant impacts expected
- "Overshoot Period"
- 2.0 Degree Celsius Increase by 2060's



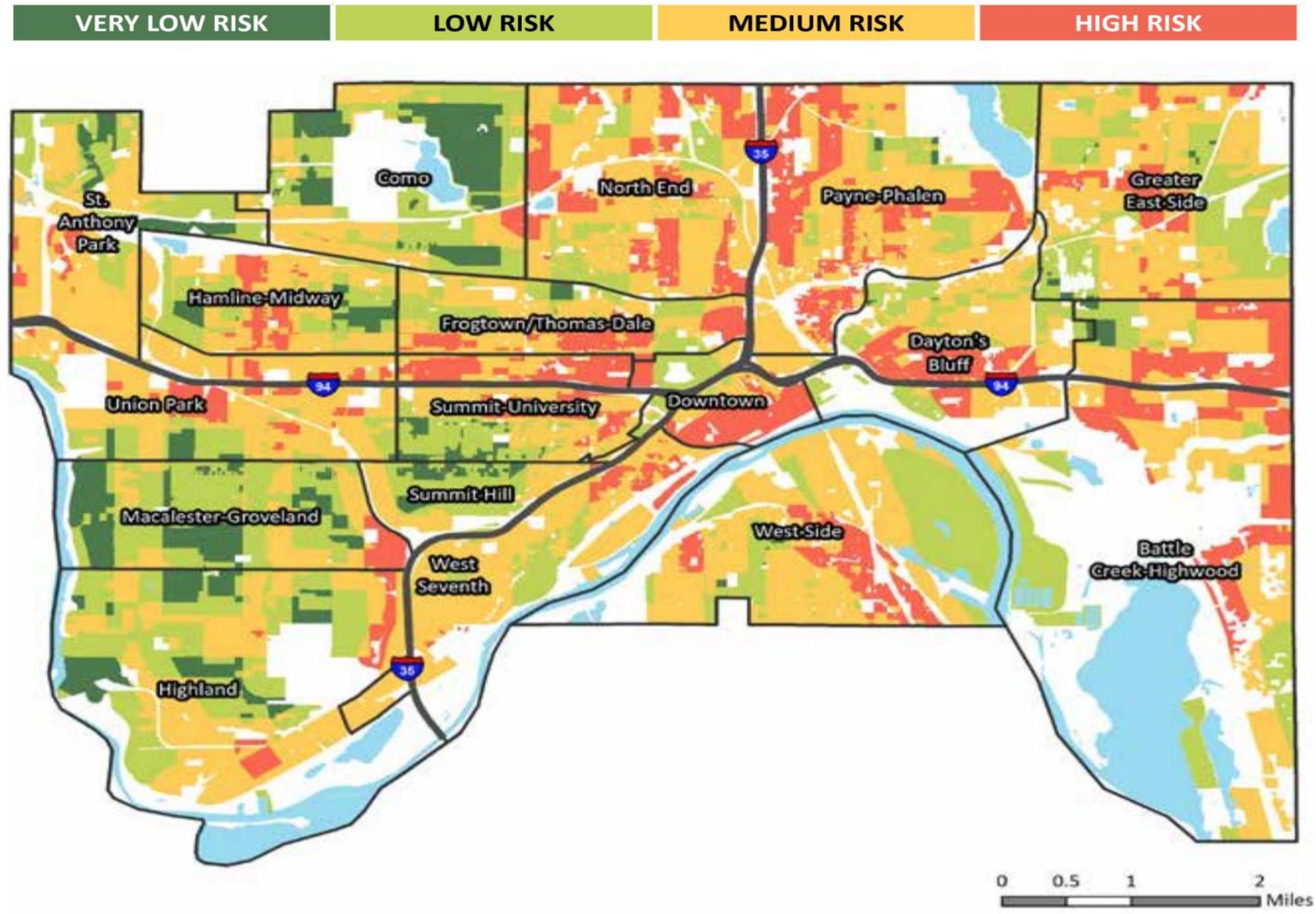
Greenhouse Gas Emissions in Saint Paul

Commercial/Industrial	42%
Residential	20%
Transp	<u>31%</u>
Total	93%





Composite Vulnerability: socio-economic, urban heat, flooding, tree canopy, air pollution





Energy Burden

The proportion of household income used to cover energy costs

- Electric Heat Affordable Rental Pilot (EHARP)
- Healthy Homes Saint Paul
- Exploring IRA to accelerate this work
- To meet goals and leverage federal funding, additional resources will be needed



City Energy Use

Goal: Achieve carbon neutrality in municipal operations by 2030.

2022 Accomplishments:

- Completed 19 energy efficiency projects
 - *Will save the city 590,000 kWh of electricity & 3100 therms of natural gas annually*
 - *Earned \$124,000 in Xcel Energy rebates*
- Tracking energy & water data for 100+ city-owned & operated buildings, totaling 2.3 million square feet



City Energy Use

Plans for 2023-2024:

- City building decarbonization planning using DOE grant
- Energy efficiency/decarbonization at Como Zoo campus
 - *Federal \$ for geothermal & heat pumps at Primates Building*
 - *Energy conservation measures (lighting, insulation, window film, etc.) recommended for 20 buildings*
- Installing geothermal at NECC, Wakan Tipi, & possibly the Heights
- LED lighting projects at 10 buildings
- HVAC equipment/controls upgrades at Police HQ & Central Library
- Finalizing Xcel agreement for fleet charging, will greatly enhance ability to pursue fleet EVs



Energy Benchmarking

- 605 Buildings Benchmarked in 2022
- 90% compliance! (best among cities in MN)
- Energy used in these buildings represents 23% of all citywide GHG
- DSI/PED collaboration on education and enforcement



Energy Policy

- Accelerate Commercial Energy Codes
- MN Climate Cities Coalition
- Xcel's IRP eliminated the large proposed gas plant and accelerated renewables
- Sustainable Building Ordinance due for a refresh in 2023



Transportation Goals

Goals	2019-2025 Targets	2025-2030 Targets	2030-2040 Targets
Reduce Single Occupant Car Trips	10%	20%	40%
Increase Transit Ridership	6%	25%	40%
Increase Biking and Walking	24 miles of new bikeway	85 miles of new bikeway	195 miles of new bikeway
Electric Vehicles	10% of all on-road vehicles	33%	80%



Transportation Actions and Planning 2022

- EV Spot Network/Envie Carshare launched, became the nation's largest electric carshare program
- Secured funding to expand Envie further into the East Side
- Wabasha Capitol City Bikeway, completion of Grand Rounds on Wheelock Pkwy. Summit Ave. Planning.
- Construction began on Gold Line, initial funding for G Line, plans progressing on Riverview and Purple Lines.
- Rethinking I-94
- Transportation Safety Action Plan



EV Spot Network/Evie Carshare

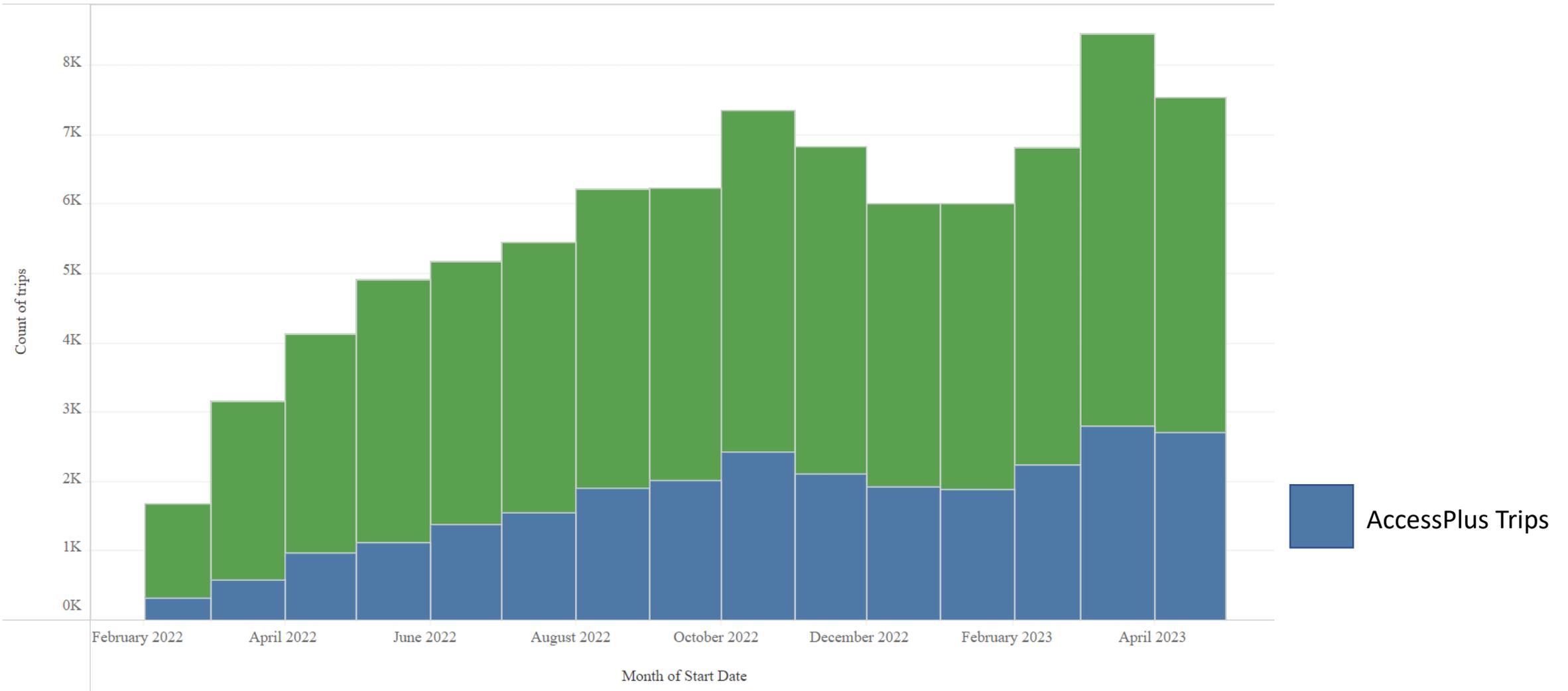
- Publicly accessible network of chargers, powered through Xcel's WindSource Program
 - 25 Sites installed to date (St. Paul)
 - 13 Sites to be installed summer 2023
- First 100% renewably powered and publicly owned EV carshare in North America
 - 145 vehicles
 - Final Batch of Leafs expected early May





Evie Carshare Usage To Date

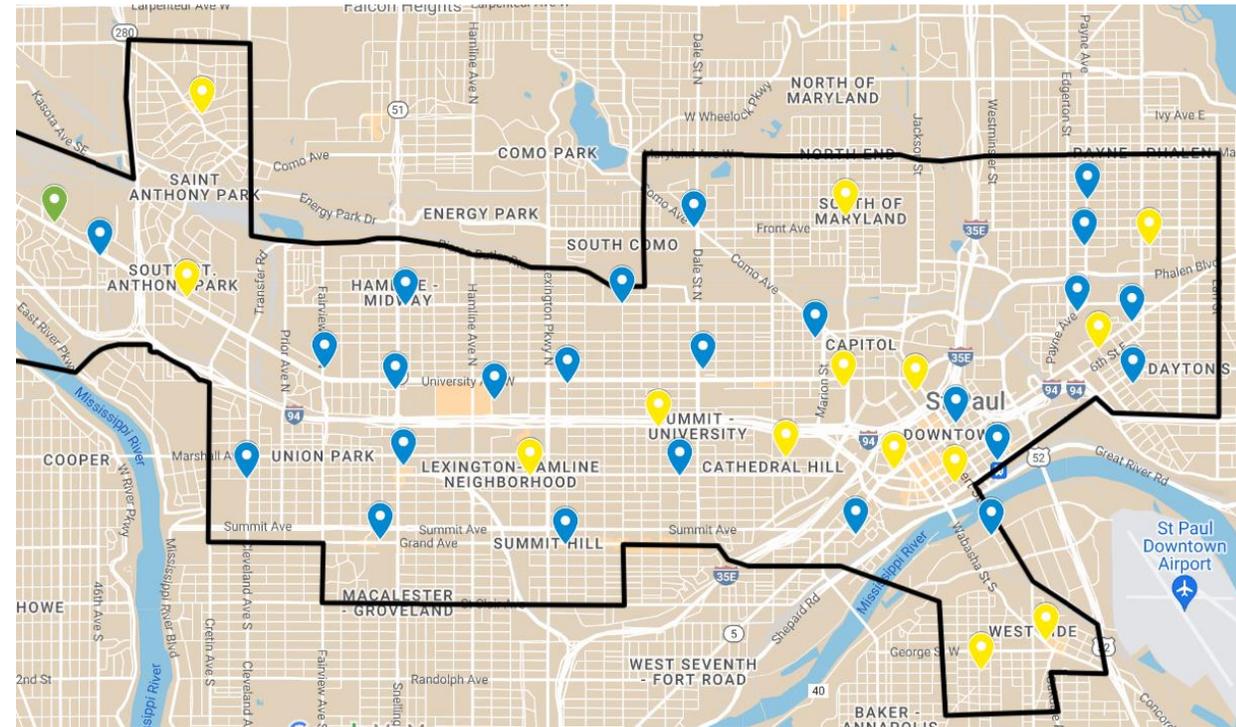
Trips





Expansion and Next Steps

- **Regional Solicitation – Granted**
 - 45 Additional vehicles to support car share density
- **Department of Energy – Pending**
 - Service area expansion
 - 10 charger sites within expanded area
 - Carsharing along the Gold Line
- **Charging and Fueling Infrastructure Program (FHWA CFI) - Applications due May 30**
 - Support additional charger installation
 - Education and engagement opportunities





Workforce and Green Careers

- County/City Earn and Learn, 2 construction/ green careers programs launching soon.
- Continuing to build an "ecosystem" of green career pathways via Construction / Green Careers Committee of WIB
- Exploring additional partnership with Saint Paul College



What's Next?

- Saint Paul Climate Dashboard
- IRA game plan
- City Buildings Decarbonization Plan (EECBG funding)
- Transit planning continues
- Apply for new federal EV charging \$
- Bike Plan Update



Questions?