Presentation to the MWAQC Technical Advisory Committee

July 14, 2020

Rosanna Ren Research Associate -Electrification & Environmental Justice



Educational Background and Research Interests



Graduate student at the University of Michigan

M.S. Environment and Sustainability / Urban and Regional Planning, May 2021

Research interests:

local climate action, energy efficiency programs, equity & justice in planning

Projects:

City of Ann Arbor internal carbon tax program with U-M School for Environment and Sustainability – May 2020

• Implementing a \$5/ton price on carbon emissions from city-owned buildings and fleet, to help finance climate action projects and meet internal sustainability goals.

Other:

- Dow Sustainability Fellow, U-M Graham Sustainability Institute
- Energy Consultant, Navigant
- Intern, Rocky Mountain Institute
- Environmental Economics & Policy, UC Berkeley



Educational Background and Research Interests



Projects:

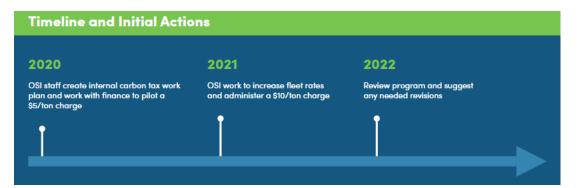
City of Ann Arbor internal carbon tax program with U-M School for Environment and Sustainability – May 2020

Research

- 1. Model the economic and environmental impacts of an internal carbon tax.
- 2. Determine the appropriate program design to integrate an internal carbon tax into the City of Ann Arbor's municipal operations.

Outcome

- Recommended a starting \$5/ton price on carbon emissions from cityowned buildings and fleet, to help finance municipal energy efficiency projects and meet internal sustainability goals.
- Incorporated into Ann Arbor's A2Zero carbon neutrality plan, adopted June 2020





Vehicle and Infrastructure Electrification

Mid-Atlantic Electrification Partnership



The goal of the Mid-Atlantic Electrification Partnership is to expand the electric vehicle ecosystem in the DMV region with \$6.7M funding from the U.S. Dept. of Energy. The partnership brings together industry, government, and non-profits for several key activities:





Alternative fueling corridors

Intermodal mobility/charging hubs

- Education and outreach programming & events
- EV school bus, EV taxi/rideshare, EV shuttle bus deployment
- Expansion of charging infrastructure

Proposal pending; anticipated start date in fall 2020

Some of our partners





Plus 4 Clean Cities Coalitions: DC, MD, VA, WV

Vehicle and Infrastructure Electrification

Considerations for the Underserved Communities of the DMV



Research and assess community engagement topics and strategies for equitable transportation electrification in DMV's underserved communities, focusing on Wards 7 and 8, and Prince George's County.



Research Questions

Equitable transportation policies:

- Improve mobility and access to jobs and services
- Provide employment opportunities
- Reduce local air pollution, benefitting community health

What strategies should be employed to build capacity and partnerships in the region's underserved communities and incorporate their input into decision-making processes?

How should community engagement be designed in light of current events like COVID-19 and racial equity?

In progress; anticipated completion in August 2020

Thank you!

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