

**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 city-owned 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

Timeline and Initial Actions

2020

OSI staff create internal carbon tax work plan and work with finance to pilot a \$5/ton charge

2021

OSI work to increase fleet rates and administer a \$10/ton charge

2022

Review program and suggest any needed revisions



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.



Equitable transportation policies:

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

Research Questions

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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