

MOBILIZE FREDERICK

MID-TERM

REPORT

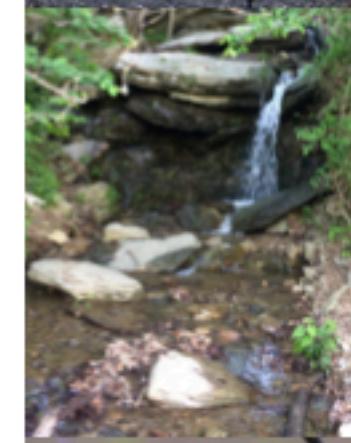
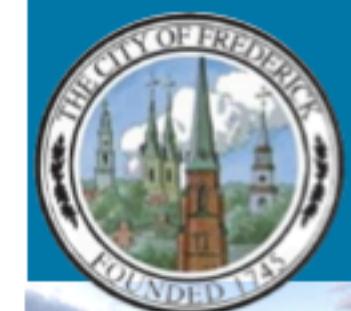
to

FREDERICK COUNTY COUNCIL,

FREDERICK CITY ALDERPERSONS

FEBRUARY 23, 2023

Additional Information
info@mobilizefrederick.org

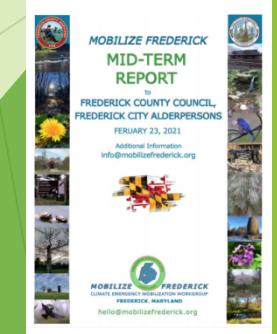
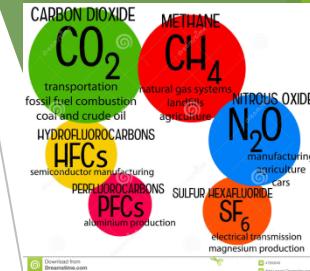


Introduction

- ▶ Frederick City and Frederick County - 92nd and 100th Climate Emergency Resolutions in the US
- ▶ More than 70 responses to invitation to serve; 55 actively involved; scientific advisors from John's Hopkins, University of Maryland, USDA
- ▶ County-wide, varied professions, embedded stakeholders
- ▶ Meetings began August 27th; 2nd and 4th Thursdays
- ▶ Expert speakers - Shannon Moore, Jenny Willoughby, COG, ALICE, involving stakeholders, financing, passive house design and more
- ▶ Focus - effective GHG reduction and resilience measures; improved human health and wellbeing, improved local economy, improved QOL and equity

Methods and Approaches

- ▶ 4 sub-groups in CEMWG (including sub, sub-groups)
 - ▶ Agriculture, Forestry, & Land Management (AFL) & Energy, Transportation, & Buildings (ETB): GHG emission reductions
 - ▶ Health, Extreme Weather, and Resilience (HWR): Adaptations
 - ▶ Public Awareness & Outreach (PAO): All forms of communication for education & engagement
- ▶ Resources: 'What's been done elsewhere' (local-international) + local links
- ▶ Within each sub-group, ID climate-derived impacts & explore remedies from other jurisdictions & scientific literature
- ▶ Prioritization Criteria: Urgency, Benefits, Implementation, & Equity to ID primary recommendations + others
- ▶ Stakeholder Engagement: Assess community recognition of new climate to aid final recommendation language & garner support



Agriculture, Forestry, Land Management

- ▶ Forests are a main carbon sink - expand current canopy by 10% to increase sink benefit from 15% currently to 20%
- ▶ Implement forestry BMPs and support local wood products markets
- ▶ Agriculture is promising as a carbon sink and as a resilience strategy
 - Soil health is key to improve both
 - Farmers in Maryland, including Frederick County, are national leaders in soil health practices
 - 1% increase in Soil Organic Matter means soil can infiltrate 20,000 more gallons of water per acre
 - Working with a Farm Bureau and Ag expert team to consider practices and to review policies and administration options



Energy, Transportation, and Buildings

- ▶ Energy, transportation, and buildings account for approximately two thirds of GHG emissions. These three sectors of our economy have several commonalities:
 - ▶ Efficiency gains are occurring, however, much more can be done.
 - ▶ Reductions in emissions will also have significant co-benefits for our health and reductions in healthcare spending.
 - ▶ There are financial benefits from lower operating costs.
 - ▶ Financing is key to addressing up-front costs and realizing lifecycle savings.
- ▶ These sectors impact everyone in the county and we are all stakeholders for these areas.
- ▶ Many of the recommendations for these sectors are known and well-documented elsewhere. Our focus is on:
 - ▶ Finding the recommendations most relevant to Frederick.
 - ▶ Researching the pathways to implementation that will work best in Frederick.



Waste and Land Management

- ▶ An estimated 40% of all food is wasted; landfilled organic matter releases methane, a GHG much more potent than CO₂
- ▶ Food diversion programs (through food hubs and other means) helps address food insecurity and keeps food out of landfills
- ▶ Food and other organic matter trash can be composted, a valuable soil health amendment
- ▶ Improve Soil Health in local landscapes - carbon sink capacity can be improved dramatically as can flood prevention via improved water infiltration



Health, Extreme Weather, & Resilience

- ▶ Focuses on adaptations to reduce impacts from extreme heat, precipitation/storms (flooding), drought, & elevated CO₂
- ▶ Impacts to Humans & Environment
 - ▶ Public health including food security
 - ▶ Damages to buildings, businesses, roads, yields
 - ▶ Air & water quality, habitats, diversity
- ▶ Overlap with other sub-groups: Liaisons for collaborative stakeholder engagement & joint recommendations
- ▶ Selecting impact focus topics
 - ▶ Public health: Heat & respiratory distress, disease, mold, pests/parasites
 - ▶ Public & private infrastructure & property
 - ▶ Agriculture productivity with heat, flooding, drought, elevated CO₂
- ▶ Initial research/explorations for recommendations



Public Awareness and Outreach

- ▶ Media
 - mobilizefrederick.org - bios of team, toolkit, press room, input
 - Twitter, Facebook, Instagram
 - Green Page in FNP each month
- ▶ Public Outreach - surveys and interviews
 - Frontline Communities - those most impact - ALICE, etc.
 - Business
 - Education
 - Households - Green Homes Challenge

