

REGIONAL CLIMATE ACTION PLANNING

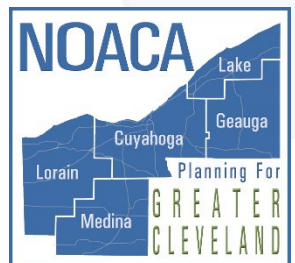
Community Engagement Sessions
July-Sept 2023

JOEL RATNER COMMUNITY



PARTNERSHIP

ENGAGING & TRANSFORMING



NORTHEAST OHIO



AREAWIDE
COORDINATING
AGENCY

NOACA: Planning For Greater Cleveland

NOACA will **STRENGTHEN** regional cohesion, **PRESERVE** existing infrastructure, and **BUILD** a sustainable multimodal transportation system to **SUPPORT** economic development and **ENHANCE** quality of life in Northeast Ohio.



What is NOACA?



A federally designated metropolitan planning organization (MPO) in Northeast Ohio



Conducts transportation and environmental planning



Determines how federal transportation dollars are spent



Conducts transportation-related air quality planning and public education



Functions as the water quality planning agency for the region



Who is NOACA?



The region includes Cuyahoga, Geauga, Lake, Lorain and Medina counties



Governed by 48 elected and appointed officials from representing jurisdictions across the region



Works with many planning partners, including Federal Highway & Transit Administrations, ODOT, Ohio EPA, county engineers, transit agencies and local governments.



NOACA VISION STATEMENT

NOACA will **STRENGTHEN** regional cohesion, **PRESERVE** existing infrastructure, and **BUILD** a sustainable multimodal transportation system to **SUPPORT** economic development and **ENHANCE** quality of life in Northeast Ohio.



CLIMATE PLANNING PROCESS

1. Initial Scientific Research Completed
2. Sharing that Research and Engaging the Public
3. Reviewing Public Opinion to Design Draft Report
4. Initial Draft
5. Sharing Initial Draft with Public
6. Finalizing Draft for NOACA Board Approval

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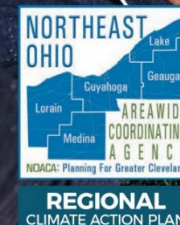


AGENDA

- Climate Action Planning Overview
- Group Discussions
- Next Steps



NOACA is committed to prepare the region for the impacts of climate change



Learn more about our strategies to adapt and respond to future challenges at [eneo2050.com](https://www.eneo2050.com)

#ClimateActionPlan

#community



WHY ARE WE HERE

- Clean Water
- Clean Air

NOACA is looking for your input in order to develop a plan that reflects the concerns and values of residents of the region.





AIR QUALITY CONCERNS

Climate Pollution Reduction; as part of the Planning Process NOACA seeks to reduce emission pollution that harms human health

2023-06-28 06:55:53



June 28th, 2023 at 6:55am - 302 AQI

2023-06-30 09:42:58



June 30th 2023 at 9:42am - 47 AQI



WHAT'S HAPPENING HERE

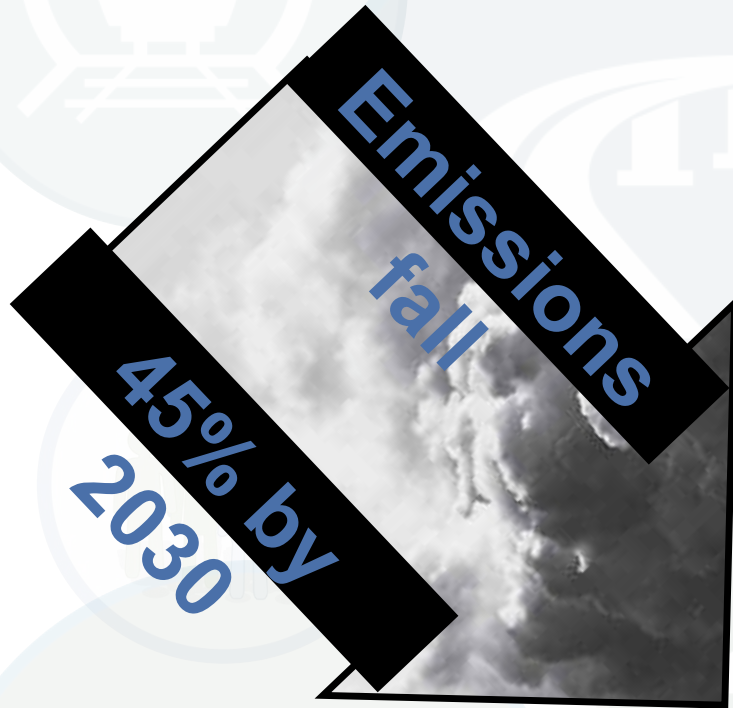
- Water levels in the Great Lakes are projected to increasingly fluctuate as the climate changes and to accelerate erosion and threaten lakeshore communities and wetland areas
- Flooding is expected to occur more often in both urbanized and agricultural areas. Flood risk is particularly high during winter and spring due to spring precipitation falling in “rain on snow” events, soil saturation, and frozen ground
- Extreme heat events are projected to become more likely in the Midwest; these events become particularly dangerous for human health and threaten agriculture including corn and soybeans



CLIMATE CHALLENGE

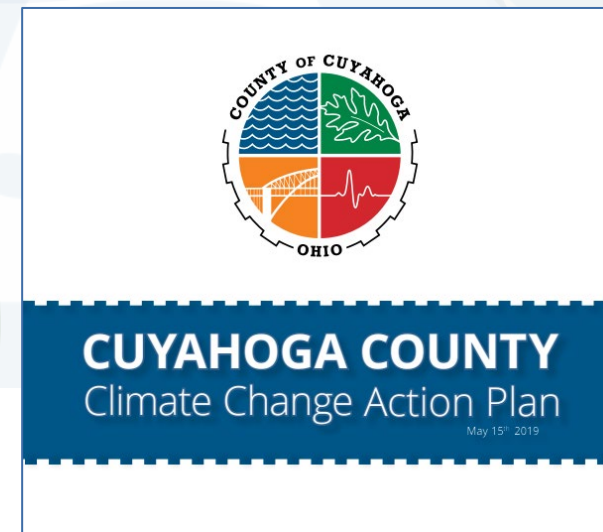
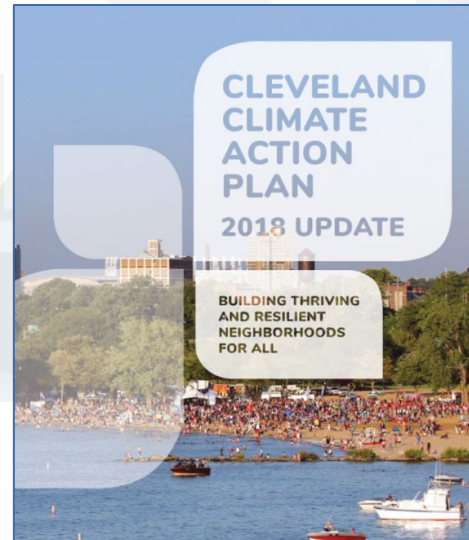
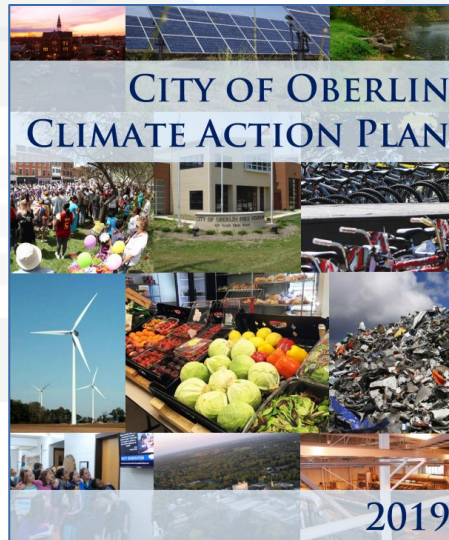
Global Climate Challenge:

- Greenhouse gas (GHG) emissions need to fall **45% by 2030** to put world on path to limit warming to 1.5 degrees Celsius by 2100 (2.7 degrees Fahrenheit).
- GHGs need to reach **net zero by 2050**



REGIONAL CLIMATE ACTION PLANNING

- NOACA embarking on regional climate action planning
- Plan will consider benefits of climate planning for region
- Existing local plans will inform and support the regional plan



CLIMATE ACTION PLANNING ELEMENTS

- **NOACA's Regional Climate Planning will include:**
 - GHG inventory and business as usual forecasts
 - GHG emissions reduction targets and low-carbon scenarios
 - Recommended actions to reduce GHG emissions and adapt to changing climate
- **Regional Plan will follow best practices from other regions, integrate with other local plans**

GREENHOUSE GAS INVENTORY

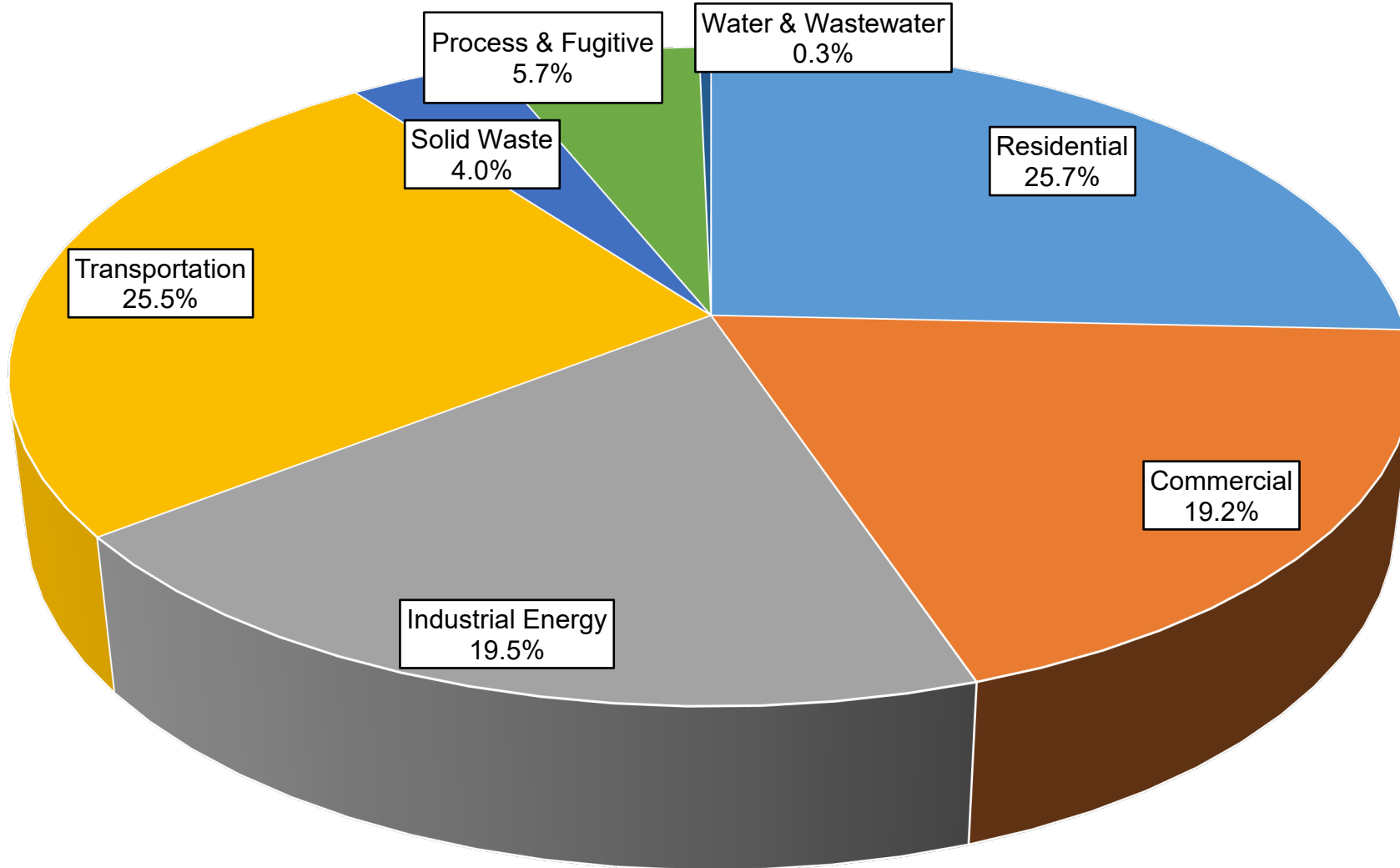
- First step of planning
- Breaking down GHG emissions by source/activity, informs mitigation efforts
- Enables tracking progress against baseline year
- View NOACA's regional GHG Emission Inventory Report at www.eneo2050.com

NORTHEAST OHIO AREAWIDE COORDINATING AGENCY

Regional Greenhouse Gas Emissions Inventory: 2018 Baseline

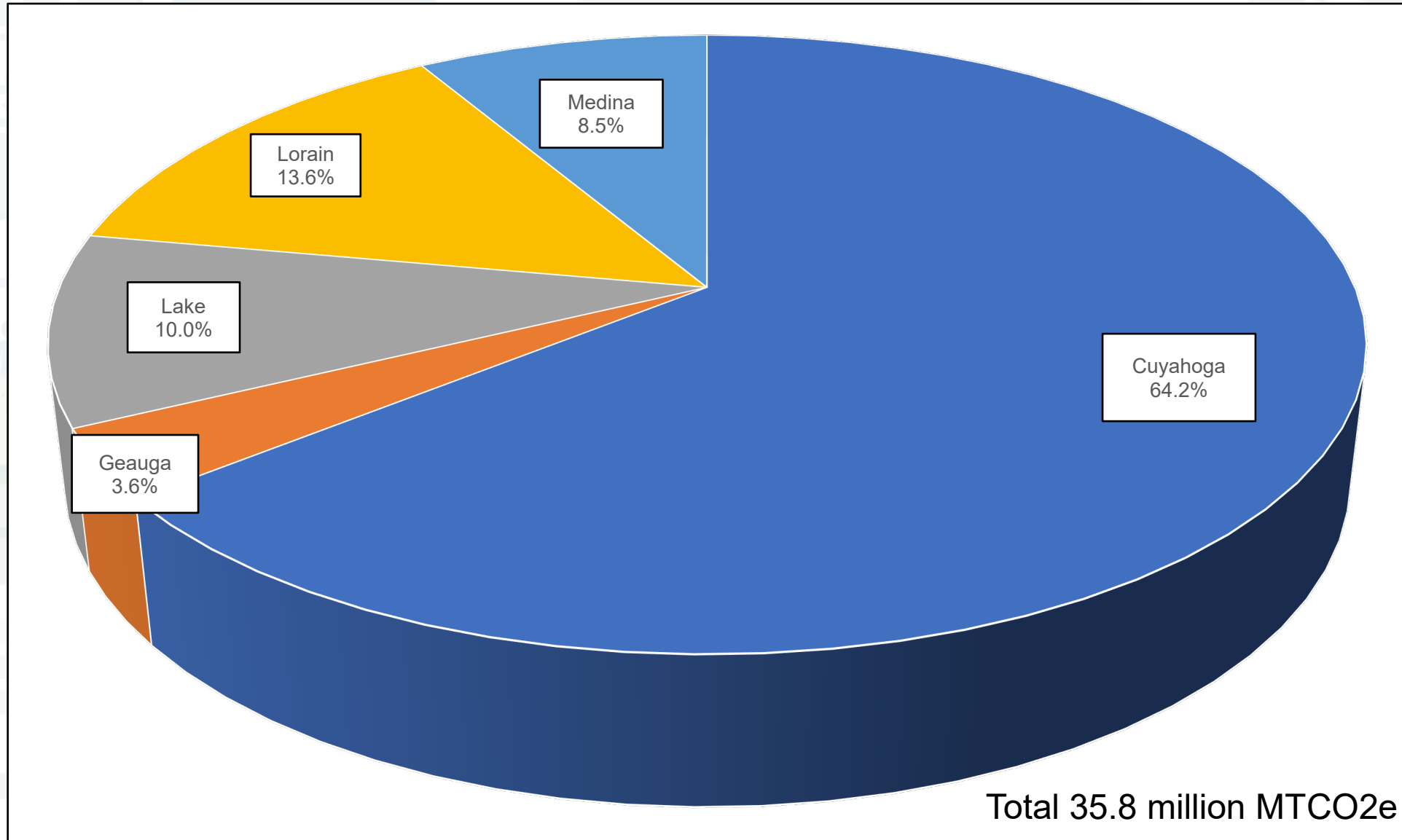


GHG EMISSIONS BY SECTOR



Total 35.8 million MTCO₂e

GHG EMISSIONS SHARE BY COUNTY



BUSINESS AS USUAL PROJECTION

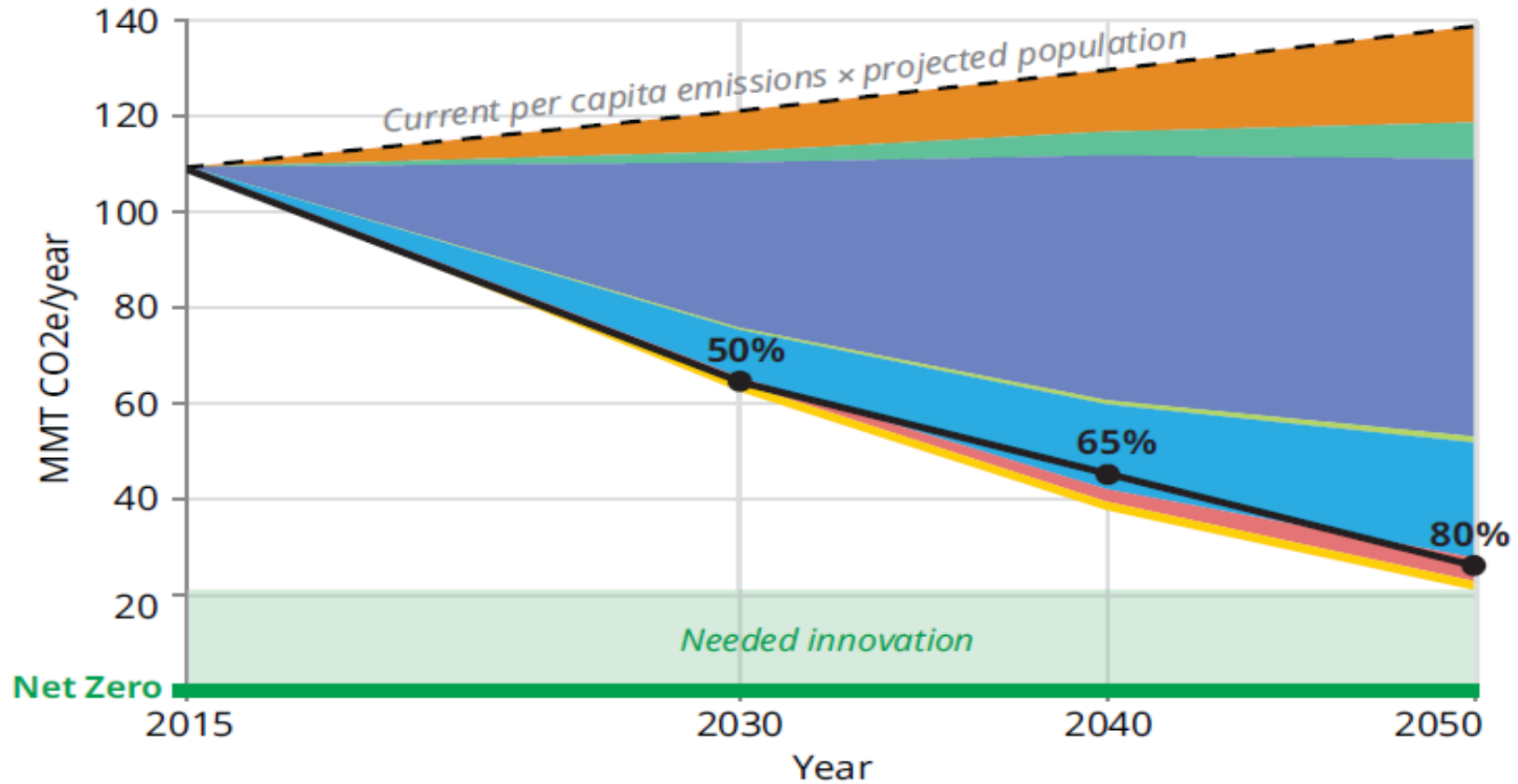
- Estimates emissions based on current policies
- Provides benchmark to measure impact of planning actions
- Involves emissions modeling based on population, economy, technology



WHAT HAPPENS IF WE DO NOTHING?

AN EXAMPLE FROM CHICAGO

- Building Energy
- Clean Energy Policy
- Decarbonize Energy Sources
- Water and Waste
- Decarbonize Transportation
- Reduce VMT
- Sequestration
- Business As Usual
- Target
- Interim Targets



WHAT CAN WE DO?

- Reduce Impact of People on the Climate
- Reduce Impact of Climate on People
- Combined Strategies



WHAT CAN WE DO?

REDUCE IMPACT OF PEOPLE ON CLIMATE:

- **Community Engagement**
- **Energy Efficiency**
- **Industrial Process Improvements**
- **Methane Capture and Use**
- **Protect and Expand Trees and Forests**
- **Renewable Energy**
- **Sustainable Transportation**



WHAT CAN WE DO?

REDUCE IMPACT OF CLIMATE ON PEOPLE

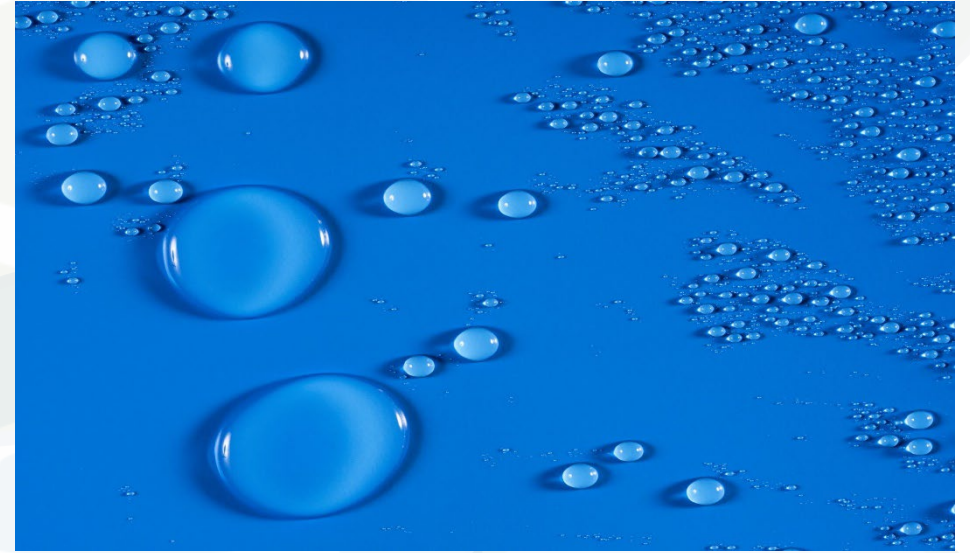
- **Business Continuity Plans**
- **Community Engagement**
- **Flood Mitigation**
- **Food Supply Protection**
- **Forest Protection**
- **Infrastructure and Building Design**
- **Land Use Changes, Relocation**



WHAT CAN WE DO?

Some Actions will both act to reduce GHGs as well as prepare for impacts of changes:

- **Green Infrastructure**
- **Solar and Storage**
- **Resilient Urban Transportation**
- **Water & Energy Conservation**
- **Weatherization of Buildings**
- **Natural Approaches to Agriculture**



CLIMATE CONCERN ANALYSIS

- **Current and future** risk level of each concern
- **Intensity and frequency** of past/current concerns and **expected change** in intensity and frequency for future hazards
- Description of impacts experienced in the past and list of **impacted sectors** and the **magnitude of impact** for each sector

POTENTIAL CONCERNS

- Air Pollution
- Changes to Lake Erie
- Drought
- Extreme Heat
- Flooding
- Severe Thunderstorms
- Severe Winter Weather
- Water Pollution



YOUR INPUT

1. Have you noticed any changes in the climate, more extreme weather, or air quality issues such as pollution? If so, what changes are you experiencing and how are the changes impacting you and your family?
2. As you think about any climate changes, extreme weather, or air quality issues such as pollution, what are your greatest concerns, if any, and why?
3. Please select up to three concerns (from presented list). You may add comments regarding these or other climate impacts.
4. Please rank from 1-4 (from presented list) your thoughts on where the plan should prioritize our five county efforts and add any comments you may have.
5. Which three strategies to reduce the impact of people on the climate are most important?
6. Which three strategies to reduce the impact of the climate on people are most important?



PROJECT DEVELOPMENT SCHEDULE

Climate Action Summit
March 2022

Technical Workshop #1
June 2022

GHG Emissions Inventory
October 2022

Strategic Public Input
June – September 2023

Climate Risk & Vulnerability Assessment
October 2023

Climate Action Strategies/Technical Workshop #2
November-December 2023

Final Climate Action Plan
January-March 2024

NEXT STEPS: STAY CONNECTED

NOACA will incorporate Public Input into planning process

- *Provide Online Input:*
<https://www.surveymonkey.com/R/X9S8MXF>
- *Website:*
eneo2050.com

For more information about NOACA visit our website at www.noaca.org

STAY CONNECTED!
GET INVOLVED!

eNEO2050
eneo2050.com/

NORTHEAST OHIO
REGIONAL CLIMATE ACTION PLAN

Join the discussion at NOACALive! on Mindmixer

f Like Us
[Facebook.com/NOACA](https://www.facebook.com/NOACA)

t Follow Us
twitter.com/NOACA_mpo

in Follow Us
www.linkedin.com/company/NOACA



QUESTIONS?

THANK YOU!

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