

# NWI Regional Climate Action Planning

May 5 , 2022

# Where have we been?

## ICLEI Climate Mitigation Milestones



# Where we are now?

## 2017 Greenhouse Gas Emission Inventories Completed

### Counties

- Lake County
- LaPorte County
- Porter County

### Cities and Towns

- Cedar Lake
- Chesterton
- East Chicago
- Gary\*
- Hammond
- Highland
- Hobart

- Lake Station
- City of La Porte
- Merrillville
- Michigan City\*
- Munster
- Portage
- Schererville
- Valparaiso

# Where we are now?

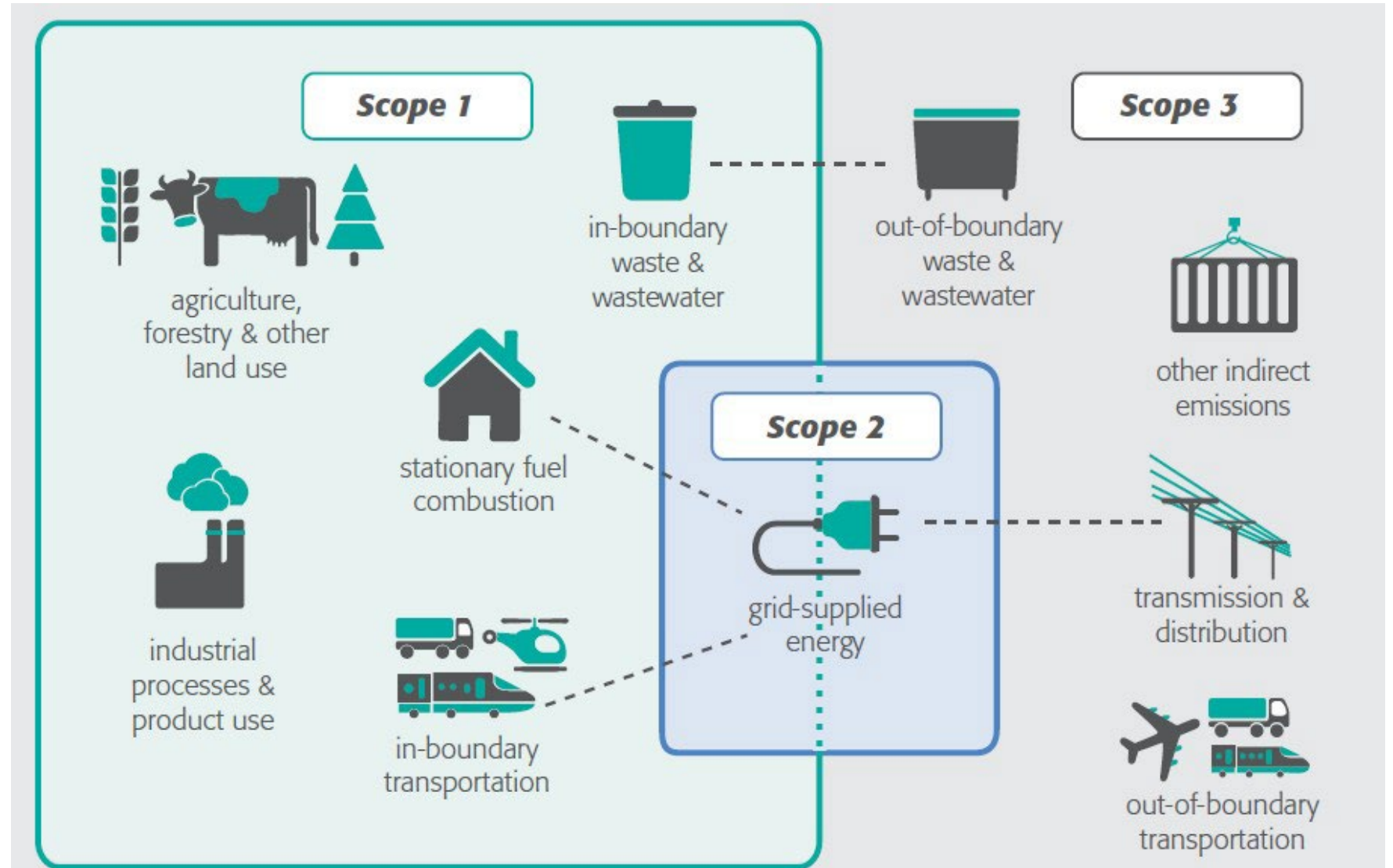


# Why narrow the focus?

**Scope 1:** GHG emissions from sources located within the community boundary.

**Scope 2:** GHG emissions occurring as a consequence of the use of grid-supplied electricity, heat, steam and/or cooling within the community boundary.

**Scope 3:** All other GHG emissions that occur outside the city boundary as a result of activities taking place within the community boundary.



# NWI 2017 GHG Emission Baseline

2017 Total Carbon Dioxide Equivalents = 49 Million Metric Tons

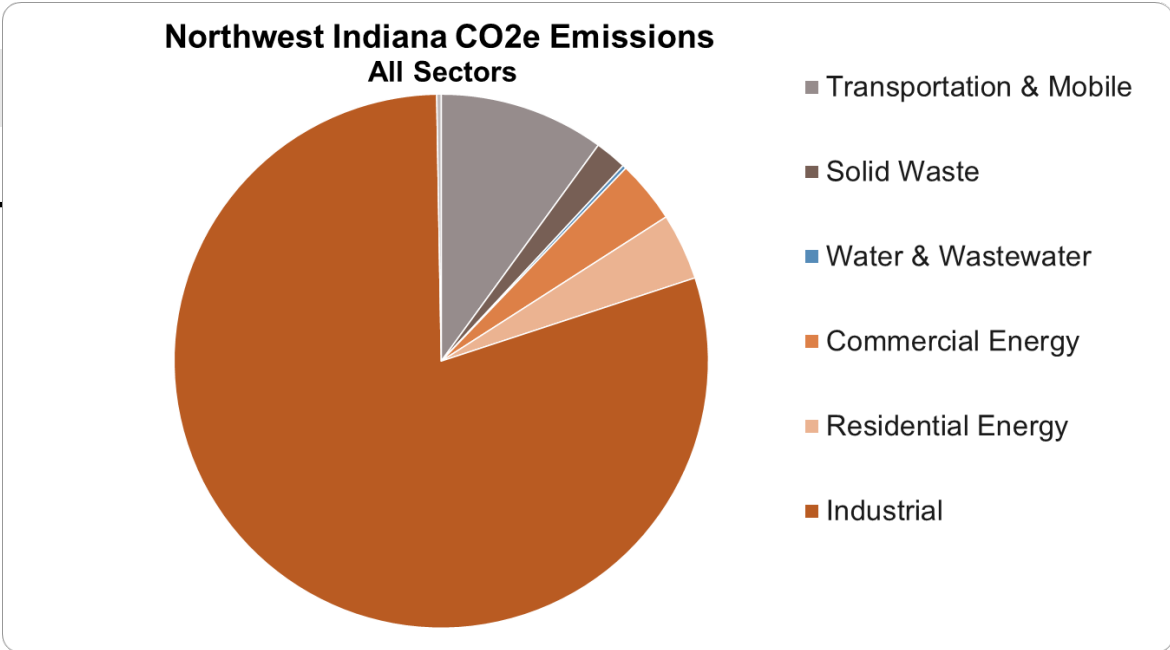
Source	Contribution
Industry (Energy and Process)	80%
Transportation and Mobile	10%
Commercial Energy	4%
Residential Energy	4%
Water and Wastewater Treatment	< 1%
Solid Waste	2%

Region Average = 45 tons per person!

LaPorte 23

Porter 69

Lake 71



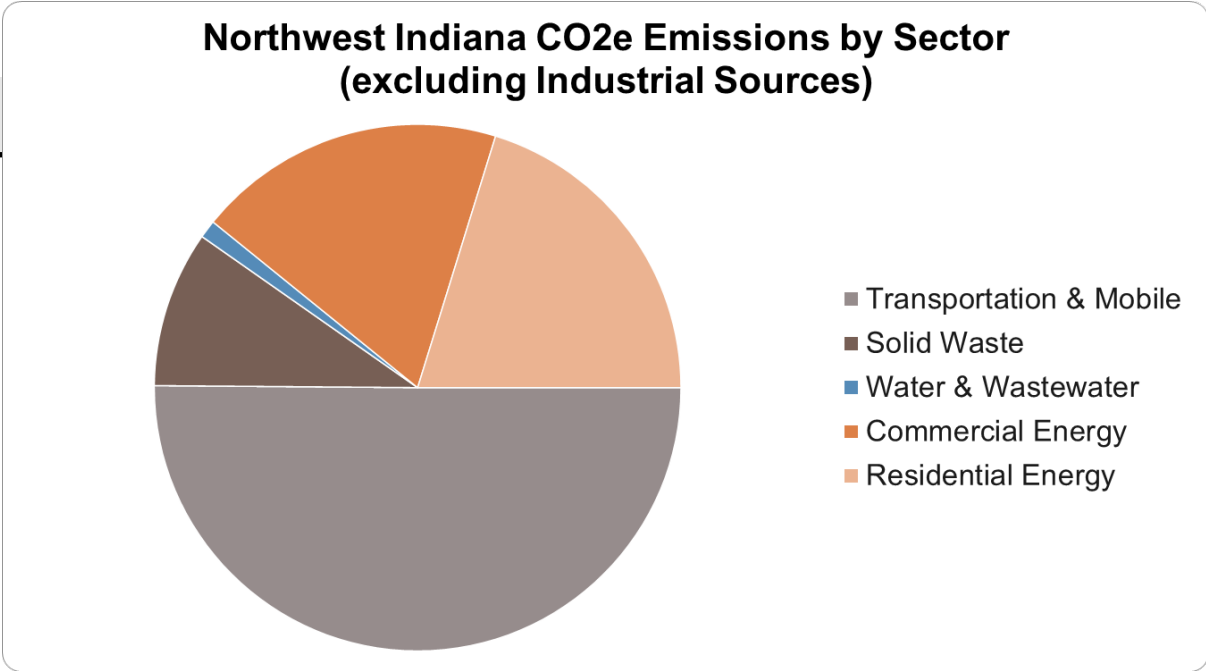
# NWI 2017 GHG Baseline for Climate Action Planning

2017 Total Carbon Dioxide Equivalents = 9.8M Metric Tons

Source	Contribution
Transportation and Mobile	50%
Commercial Energy	19%
Residential Energy	20%
Water and Waterwater Treatment	1%
Solid Waste	10%

Residential Energy = 1.7 – 10.3 tons per capita  
Transportation = 6.4 tons per capita  
537 Metric Tons per Million VMT

Non-Industrial CO2e = 13 tons per person!  
Lake County = 11  
LaPorte County = 19  
Porter County = 14



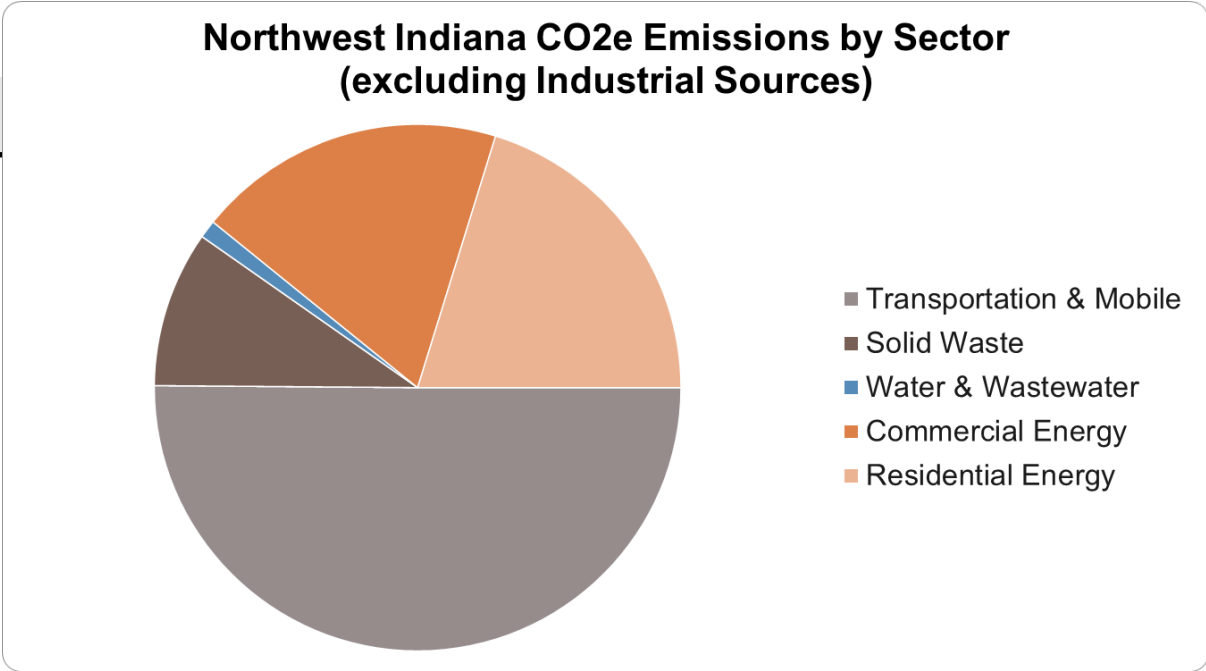
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# Where we are now?



# Regional Climate Action Planning

## Work Plan

- |  |             |
|--|-------------|
| • Form a Project Working Group                             | Mar - May   |
| • Develop Outreach and Engagement Strategy                 | Mar - May   |
| • Implement Outreach and Engagement                        | Throughout  |
| • Forecast “Business-as-usual” emissions                   | May-June    |
| • Develop Regional Climate Action Goals & Objectives       | May-July    |
| • Develop Community Typologies and Strategies              | June - July |
| • Draft Regional Climate Action Plan Framework             | August      |
| • Develop Local CAP Support Plan and Performance Metrics   | August-Sept |
| • Finalize and Adopt NWI Regional Climate Action Framework | Oct-Nov     |

# Climate Planning Working Group

## Aspirations

### Diversity of perspectives

- Climate impacted communities and groups
- Environmental justice representatives
- Emission source stakeholders
- Decision makers
- Implementers
- Influencers
- Ambassadors for Climate Planning

### Diversity of Expertise

- Across Source categories
  - Technical Issues
  - Regulatory environment
  - Economic Influences
- Potential carbon control and reduction strategies
- Local government authority
- Local government finance
- Climate impacts and preparedness
- Communications

# Outreach and Engagement

## Levels of Engagement

Adapted from the International Association of Public Participation (IAP2) Public Participation Spectrum

Active participation methods				
Does the task require?	Inform	Consult	Involve	Collaborate
<b>Engage NWI goal</b>	Provide public with objective information and assist their understanding of regional challenges, options, opportunities, or solutions.	Obtain feedback on regional planning tasks, analyses, or prior to policy making.	Work directly with public and stakeholders throughout planning process to ensure concerns and ideas are consistently understood and considered.	Partner with the public and stakeholders in every aspect of the planning process from project scoping through adoption of plans or policies
<b>Engage NWI promise</b>	Keep general public and stakeholders informed.	Keep public informed, listen and acknowledge concerns and ideas, and provide public with report on how input shaped outcomes.	Work with public and stakeholders to ensure goals and ideas are directly reflected in planning work as much as possible and report on how input shaped outcomes.	Work with public and stakeholders to inform planning work from start at project scoping to understand issues, generate solutions, and incorporate feedback to shape outcomes.
<b>Involvement methods / tools may include:</b>	Website, social media, newsletters, multi-language publications, press releases, mailings, live streaming, white papers, or fact sheets.	Activities listed in “Inform” plus surveys, comment forms, webinars, or formal meetings	Activities listed in “Consult” plus focus groups, targeted outreach to meet people where they are such as “Out and Abouts,” or “Pop-up Events”	Activities listed in “Involve” plus task forces, charrettes, keypad polling, and working groups
<b>When goal will be selected:</b>	The “Inform” level of participation will be used for technical documents, but the methods will be used frequently to communicate regularly with the public	The “Consult” level of participation will be used less frequently, but the methods will be used when needed	The “Involve” method will be used frequently and the methods as well	The “Collaborate” method will be used frequently with major planning processes

# Forecasting Future Emissions

## Business as Usual

- Forecasted Population Growth
- Forecasted Vehicle Miles Traveled
- Officially documented changes in carbon intensity of energy used
- For example:
  - EPA regulatory changes in vehicle fuel efficiency standards and engines
  - NIPSCO Published and IURC approved Integrated Resource Plans
  - Documented future changes in Wastewater, Drinking Water, or Solid Waste Management processes

## NIRPC's currently adopted planning forecasts

Year	Population	Households	Employment	Annual Vehicle Miles Traveled (Millions)
2017	766,924	291,750	286,970	11331
2020	773,689	294,313	292,121	12120
2025	784,974	298,567	300,688	13560
2030	796,251	302,838	309,281	15170
2040	818,813	311,378	326,436	18988
2050	841,382	319,903	343,604	23766

# Develop Regional Climate Action Goals & Objectives

## Science Based Reduction Targets

Are in line with International Agreements and Reduction Goals to keep warming below 1.5 degrees C.

- Based on the latest climate science
- 50% GHG Reduction by 2030
- Climate Neutral by 2050.
- NWI Targets are calculated from 2017 Baseline.

Based on One Planet City Challenge Method

### Science Based GHG Emission Reduction Targets for Northwest Indiana

	2030 Reduction Per capita	2030 Absolute Reduction (Million Metric Tons)
Per ICLEI	63.4%	60.1 - 63.9 %
NWI 2017	12.8 tons/person	6.5
2030 Target	4.7 tons/person	2.4

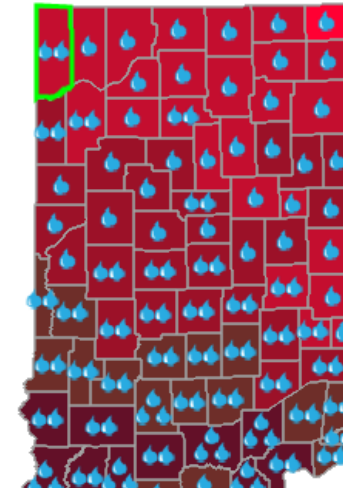
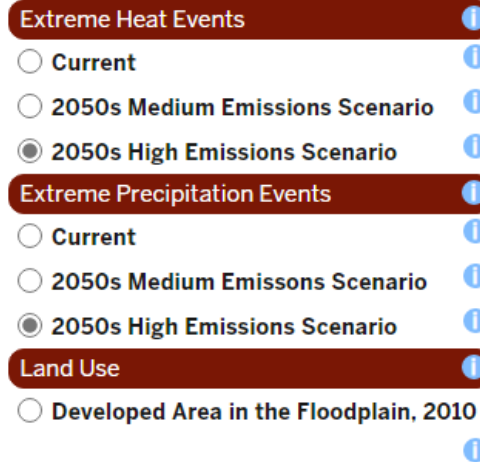
Other methods available:

- Deadline 2020 Method: incorporates per capita GDP
- Tyndall Centre Method: focuses on energy emissions only
- Race to Zero Method: based on getting to net zero by 2040

# Develop Regional Climate Action Goals & Objectives

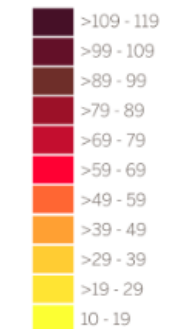
## Things to Consider

- Vulnerability Assessment
- Preparedness and Resilience
- Environmental Justice

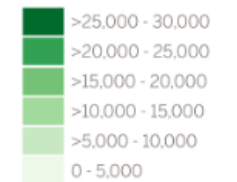


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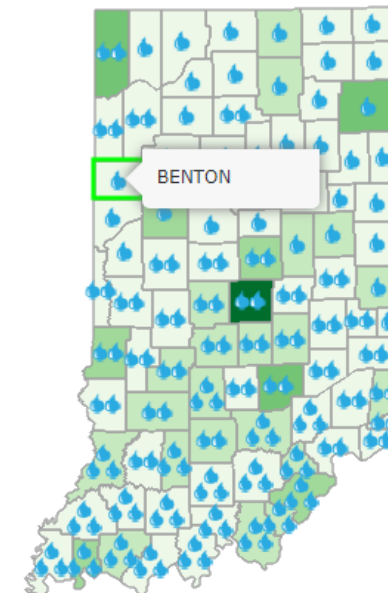
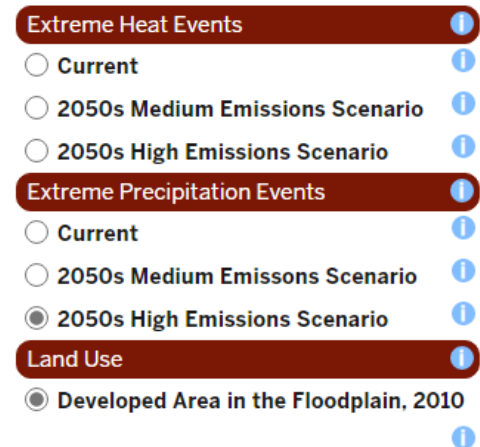
Days of Extreme Heat in a Year



Acres of Developed Land in a 100- or 500-year Floodplain

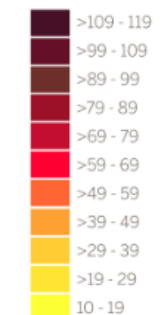


Days of Extreme Precip. in a Decade



### Legend

Days of Extreme Heat in a Year



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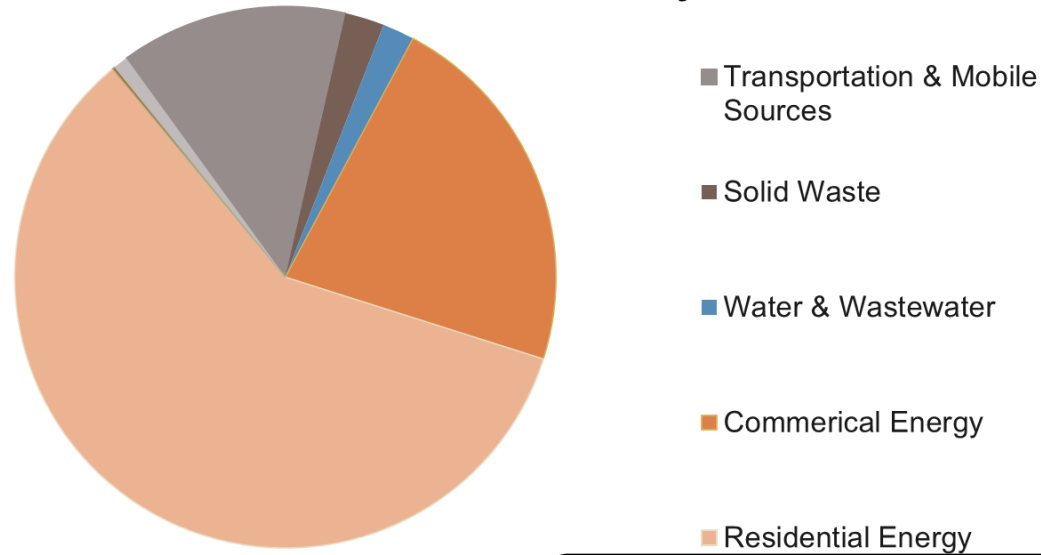


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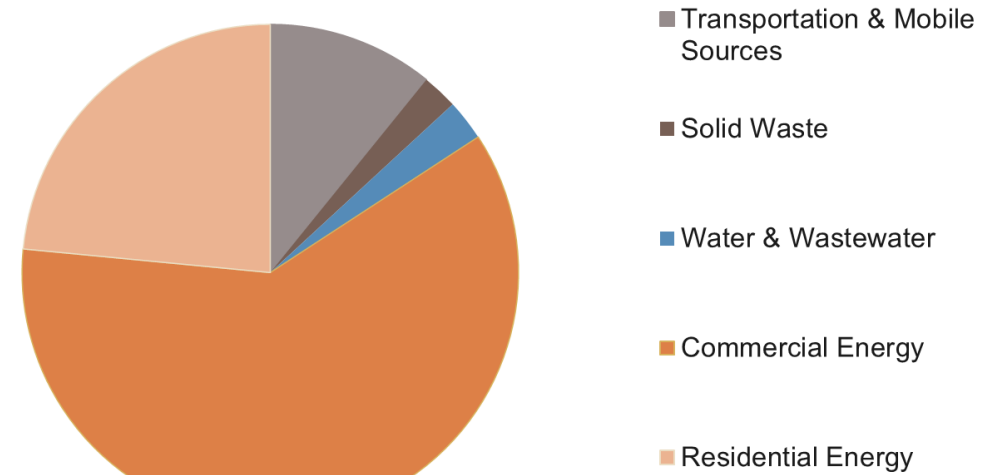


# Develop Community Typologies and Strategies

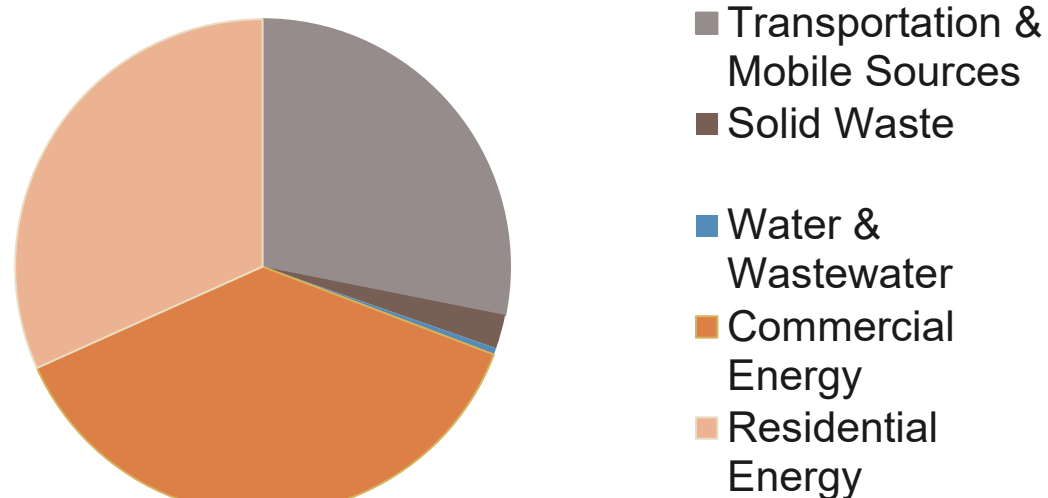
**Cedar Lake CO2e Emissions by Sector**



**Hammond CO2 Emissions by Sector**



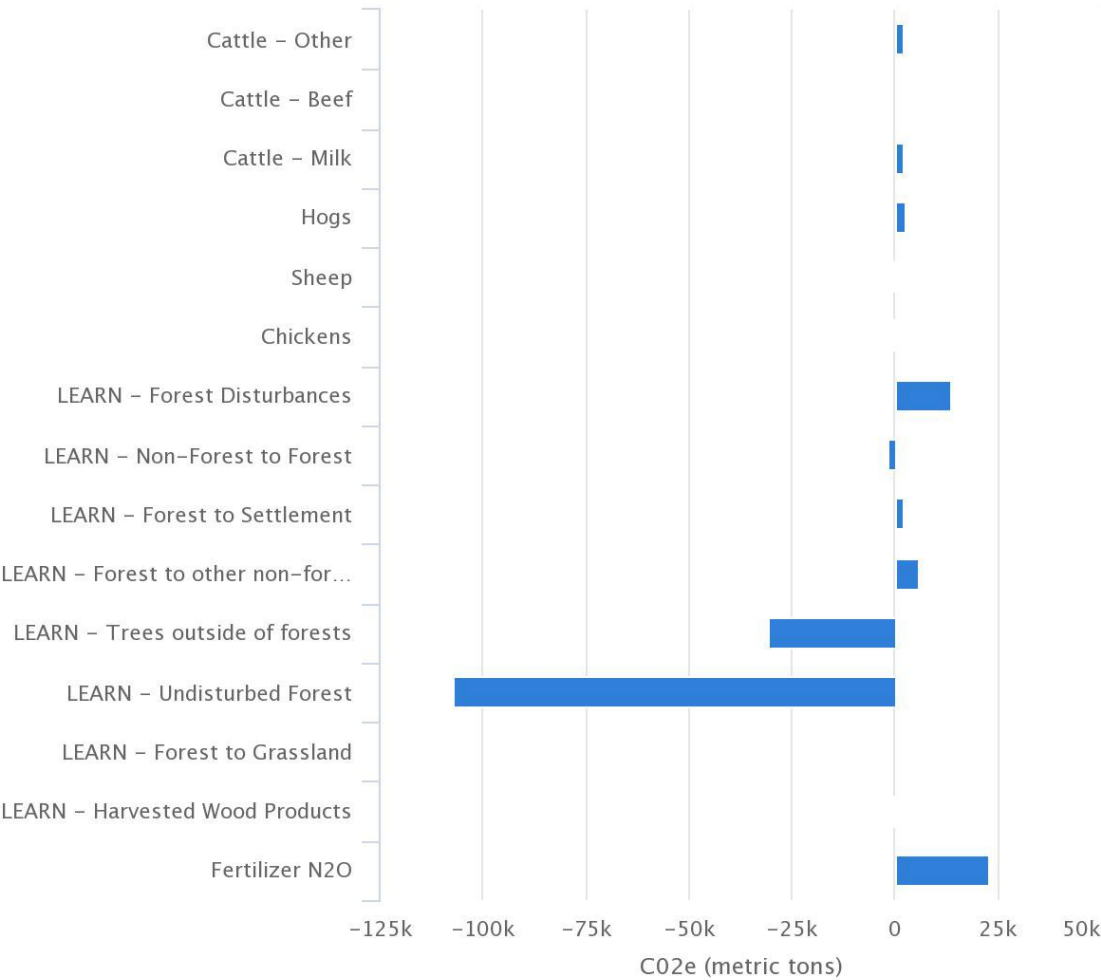
**Munster CO2e Emissions by Sector**





# Land Use and Carbon Sequestration Strategies

CO2e By Record



# Develop Local CAP Support Plan and Performance Metrics

How do we make this a plan that won't sit on a shelf?

How can we help local communities to pursue and implement their own Climate Action Plans?

# Questions?

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