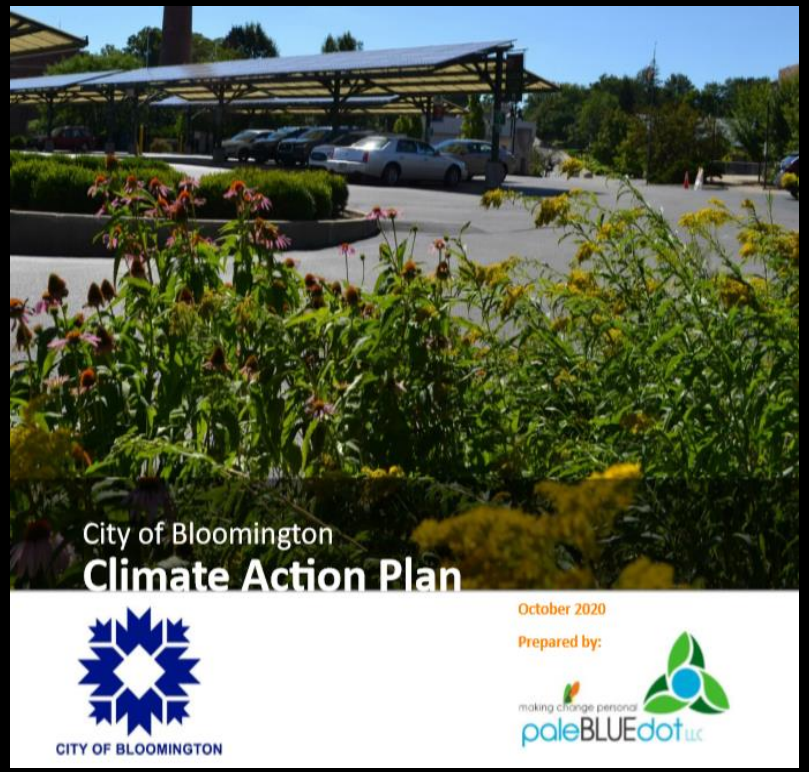



# Bloomington Climate Action Plan- DRAFT

**bloomington.in.gov/sustainability/2020-climate-action-plan**


# Climate Action

- 2016- Committed to reducing greenhouse gas emissions, enhance resilience to climate change, and tracking progress
- 2019- Understand and quantify sources of emissions (Greenhouse Gas Inventory)
- 2020- Set a target and indicate what actions should be taken to reduce emissions and adapt to climate change

2020 Dane County Climate Action Plan

# TODAY'S OPPORTUNITY FOR A BETTER TOMORROW

# A²ZERO

EQUITABLE • SUSTAINABLE • TRANSFORMATIVE

Adopted on June 1, 2020, A²ZERO is the City of Ann Arbor's plan for achieving a just transition to community-wide carbon neutrality by 2030.

# IOWA CITY

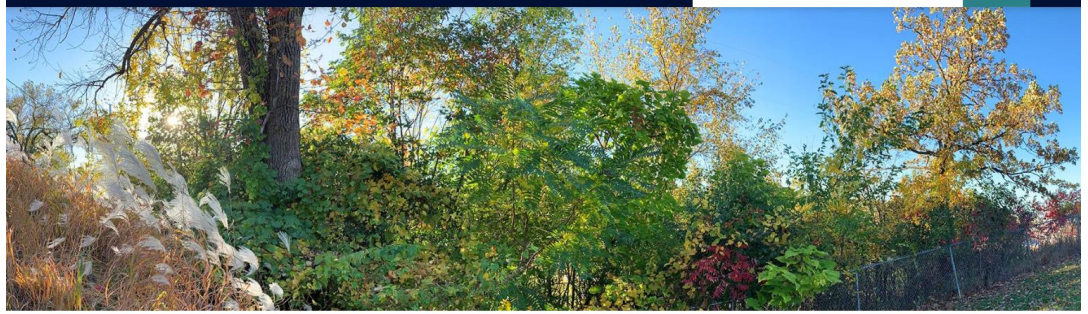
## Climate Action and Adaptation Plan

CITY OF IOWA CITY
UNESCO CITY OF LITERATURE

DUBUQUE | IOWA

GOVERNMENT | RESIDENTS | DOING BUSINESS | VISIT

I'm Looking For...

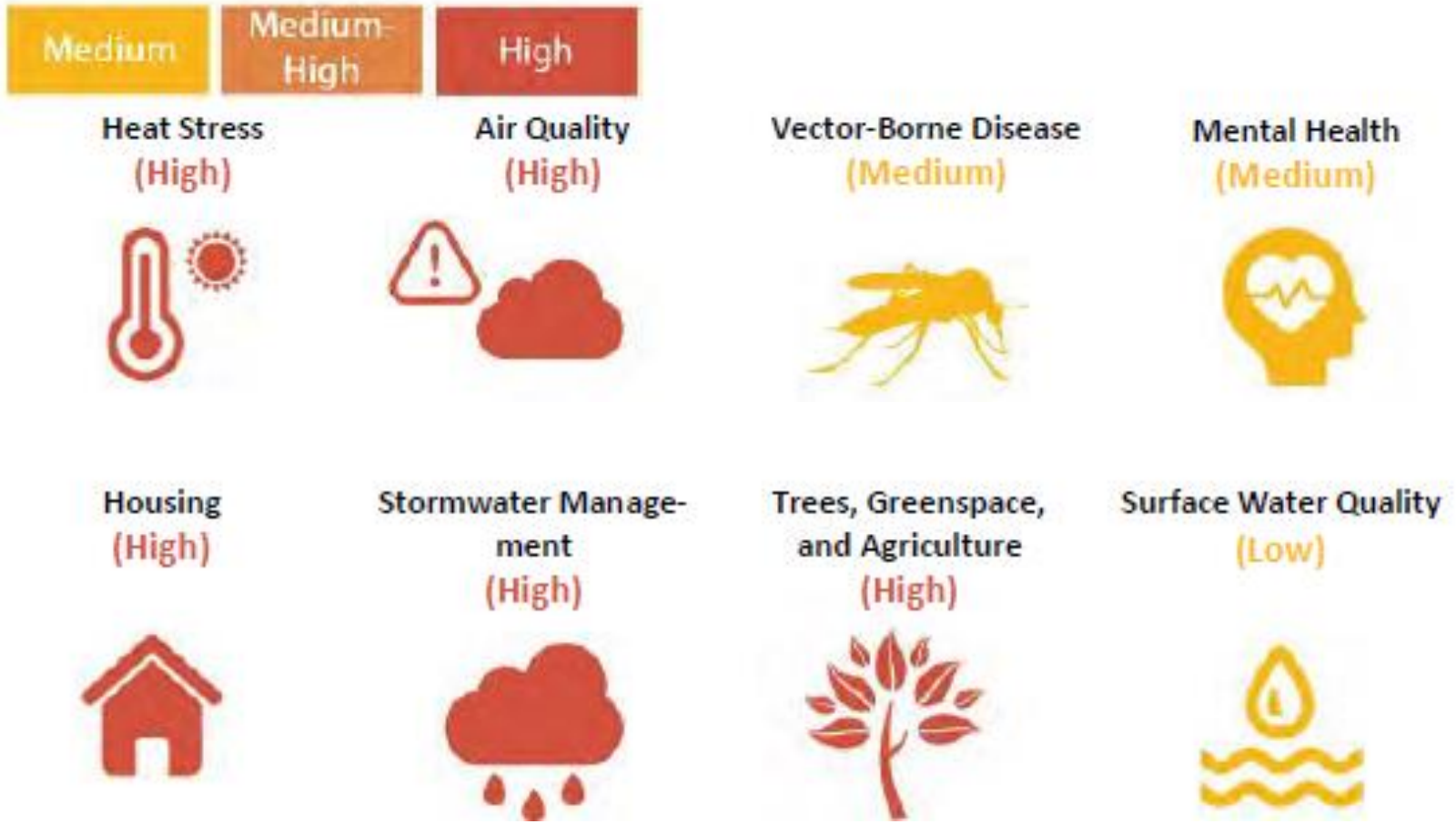


About Sustainable Dubuque +

50% by 2030 Plan

Home › Government › Departments › Sustainable Dubuque › 50% by 2030 Plan

## 50% by 2030 Community Climate Action & Resiliency Plan



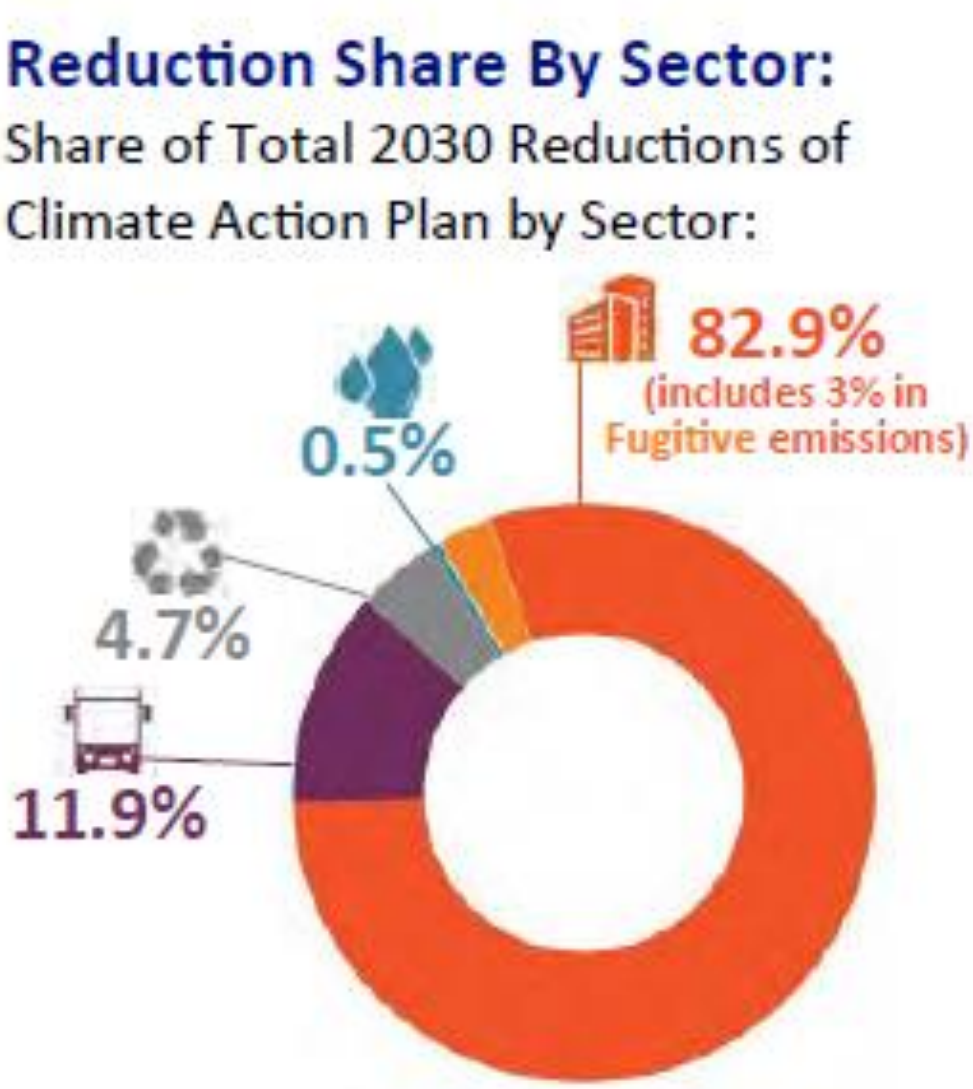

## Preparing for and Mitigating Climate Impacts

**(see Climate Vulnerability Assessment, Climate Action Plan p. 10)**

# Emissions Reduction Goal

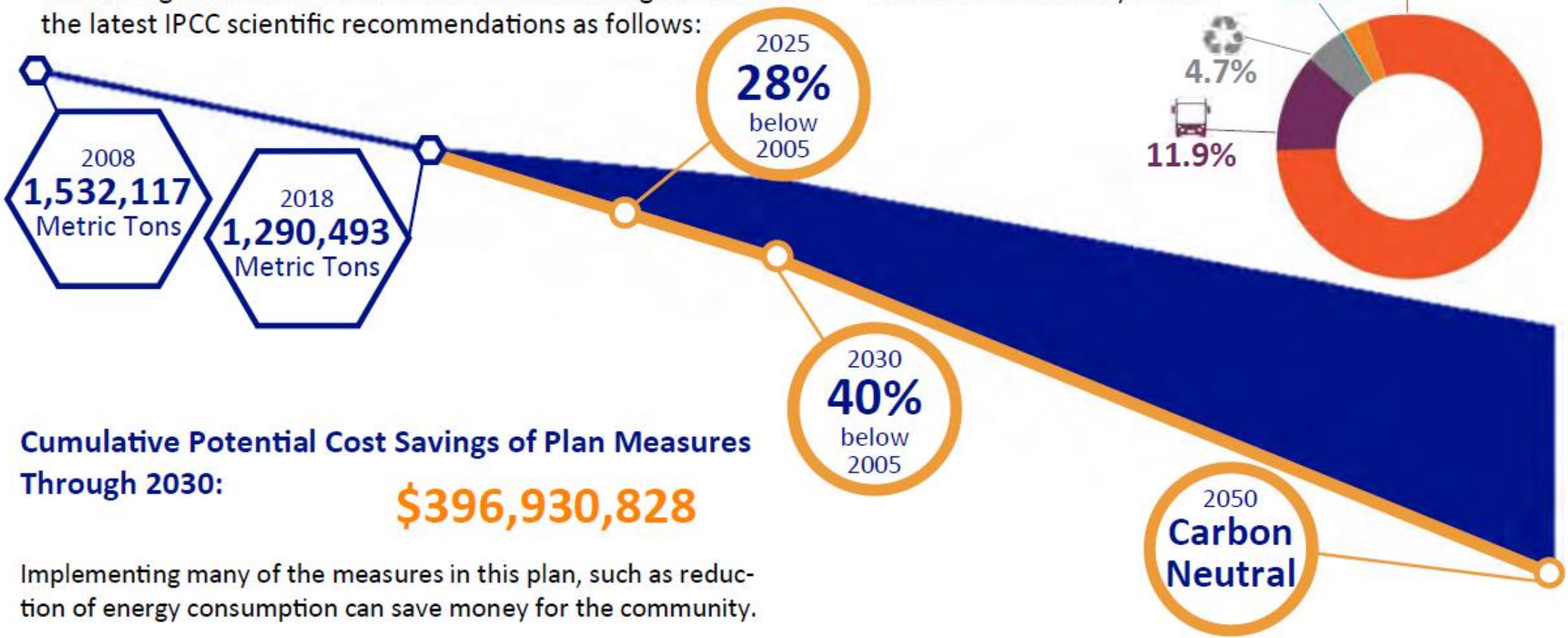
By 2030, global emissions will need to be 25% lower than 2018 to put the world on the least cost pathway to limiting global warming to below 2°C. (UNEP Emissions Gap).

To remain compliant with limiting global warming to 1.5 degrees, **Bloomington must further reduce emissions 25% from 2018 levels by 2030** (40% from 2005) across various sectors.



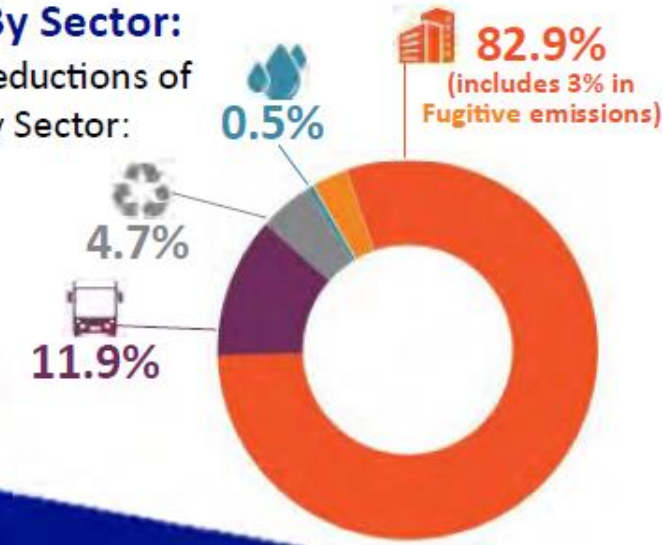
## Our Carbon Reduction Goal

To reduce community-wide GHG emissions in line with the Paris Climate Agreement with intermediate reduction goals based on the latest IPCC scientific recommendations as follows:




## Reduction Share By Sector:

Share of Total 2030 Reductions of Climate Action Plan by Sector:




## Cumulative Potential Cost Savings of Plan Measures Through 2030:

**$396,930,828**

Implementing many of the measures in this plan, such as reduction of energy consumption can save money for the community.









**Climate Action Plan Chapters**

# Who was involved in identifying the draft strategies to reduce emissions?

The focus groups with the planning team were held over three months this summer about the focus areas of the plan by reviewing actions implemented in other cities across the country-

**Climate Mitigation**

- Transportation and Land Use
- Energy and the Built Environment
- Waste Management
- Water and Wastewater

**Climate Adaptation**

- Local Food and Agriculture
- Health & Safety
- Greenspace and Ecosystem Health
- Climate Economy

Other listening sessions were also held by community members about priorities of the plan, as well as a communitywide survey in March.

# Energy and Built Environment

## Goal EB2 Increase energy efficiency citywide 16% for electricity and 12% for natural gas by 2030

### How We'll Get There

**Strategy EB2-B:**

**Support and accelerate energy efficiency citywide.** (continued)

#### Initial Actions

| | |
|---|---|
| EB2-B-2 | Work with utilities to incentivize and promote replacement of inefficient equipment before end-of-life, and facilitate the bulk purchasing of efficient equipment. Goal: achieve 250 households replacing equipment annually |
| EB2-B-3 | Establish an Energy Efficiency Upgrade cost sharing incentive program providing a 25% matching grant for qualified buildings and applicants. Target utilization by 60 businesses annually. Example program: http://www.minneapolismn.gov/environment/greencostshare http://www.minneapolismn.gov/www/groups/public/@health/documents/webcontent/wcmsp-221550.pdf |
| EB2-B-4 | Work with partner organizations to promote building retrocommissioning and operation and maintenance practices that improve affordability, comfort, indoor air quality and energy efficiency in all commercial and multifamily buildings. Target 60 businesses commissioned annually |
| EB2-B-5 | Collaborate with utilities, community partners, and rental property owners to promote and provide comprehensive audits followed by energy efficiency upgrades benefiting multifamily residents, with a particular focus on low-income communities. Target: Achieve 220 audits and upgrades annually. |

### How We'll Measure Progress

Annual citywide elecricity and natural gas consumption reported.

#### Strategy Expected Benefits

Reduced Costs

Reduced GHG Emissions

Improved Building Quality and Comfort

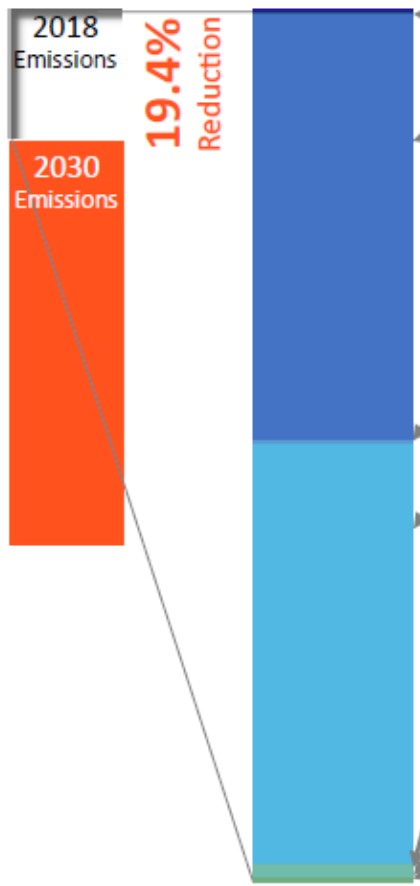
Jobs / Economic Development

# Planned Energy and Built Environment GHG Emission Reductions

## Planned Sector Emission Reductions Through 2030

The strategies and actions included in this section of the Climate Action Plan are projected to reduce the city's annual GHG emissions by 186,891 metric tons (MT) by 2030 - a 19.4% reduction over 2018 levels.

This is equivalent to eliminating **3,667 million** cubic feet of man-made greenhouse gas atmosphere annually by 2030.




## Individual Strategy Annual Emission Reductions by 2030

**Strategy EB 1-A:**
Increase solar on City facilities

**Strategy EB 1-B:**
accelerate on-site solar PV citywide

**Strategy EB 1-C:**
Improve energy policy.

**Strategy EB 2-A:**
Increase City building energy efficiency

**Strategy EB 2-B:**
Accelerate energy efficiency citywide.

**Strategy EB 2-C:**
Increase net zero building stock citywide

**Strategy EB 3-A:**
Support Duke Energy's grid emissions goal

**Strategy EB 3-B:**
Advocate for stronger state policy.

**Strategy EB 4-A:**
Accelerate electrification of systems

**Strategy EB 4-B:**
Accelerate low/no carbon alternatives

**Strategy EB 5-A:**
Promote Equity in Energy

# DRAFT Climate Action Plan- Bloomington Goals (Summary)

## Energy & Built Environment- 19.4% reduction by 2030

- [ ] Accelerate on-site solar installations
- [ ] Accelerate energy efficiency efforts
- [ ] Electrify on-site fossil fuel (ex: natural gas)

## Transportation & Land Use- 14.2% reduction by 2030

- [ ] Encourage electric vehicle adoption
- [ ] Reduce single occupancy vehicle use by 7%
- [ ] Reduce commercial & industrial vehicle use by 5%

## Waste Management- 13.6% reduction by 2030

- [ ] Increase recycling diversion by 30%
- [ ] Increase organics diversion by 30%
- [ ] Increase recoverable materials (ex: construction waste) by 30%

## Water & Wastewater Treatment- 7.4% reduction by 2030

- [ ] Increase water conservation
- [ ] Reduce energy use for treating and transporting water

## Health & Safety

- [ ] Increase resilience to heat and flooding
- [ ] Prepare for hazard impacts
- [ ] Improve community health

## Climate Economy

- [ ] Increase workforce development
- [ ] Increase green business financing
- [ ] Increase business resilience to risk

## Local Food & Agriculture

- [ ] Increase local commercial & noncommercial food cultivation
- [ ] Reduce food insecurity
- [ ] Reduce food waste

## Greenspace & Ecosystem Health

- [ ] Increase tree canopy coverage by 3%
- [ ] Expand green infrastructure
- [ ] Reduce heat island effects

# Metrics

## Strategy EB1-B:

**Support and accelerate installation of on-site solar PV citywide**

Total citywide on-site renewable energy capacity installed.

Over 420 solar PV's are currently installed in Bloomington for a total of 5 megawatts (MW) in nameplate generating capacity (based on Solar Indiana Renewable Energy Network data February 2020). Residential arrays are 44%, government facility arrays are 39%, commercial and industrial arrays total 11.6%, and utility solar installations are 5.4% of the total existing installed capacity. Fewer than 1.5% of households and 1.75% of commercial/industrial establishments have on-site solar installed indicating significant opportunity for increasing on-site solar installations citywide.

CITY OF BLOOMINGTON
ECONOMIC AND SUSTAINABLE DEVELOPMENT

# 2020 Bloomington Climate Action Plan Input Survey

https://cityofbloomington.research.net/r/MJKLWYB

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