

## Fitchburg Addressing Climate Change through Clean Energy Goals

***The 100% Renewable Energy Resolution is a strong step toward action by setting ambitious, achievable targets and guidelines for energy use-reduction and renewable energy generation for city operations and the community as a whole.***

### **Background: Fitchburg Actively Supports Clean Energy and Tackling Climate Change**

- 2008: Fitchburg Common Council adopted the US Mayors Climate Protection Agreement
- 2009: Fitchburg partnered with the State of Wisconsin in pursuit of the renewable energy goal by signing an Energy Independent Community Resolution to generate 25% of its energy from renewables locally by 2025
- 2010: Fitchburg joined the Green Tier Legacy Communities Charter, a program intended to help voluntary charter municipalities conserve energy, water, and land and to develop cost-effective environmental strategies
- 2013: City campus retro-commissioning project was undertaken
- 2017: Citywide solar initiative installed 362 kW of solar photovoltaics (electric)

### **The Resolution: Fitchburg Sets Ambitious, Achievable Targets to Reduce Its Greenhouse Gas Emissions**

- Sets a series of goals for City operations and community-wide carbon reductions, with bigger achievements as MGE increases utility scale renewables, battery storage prices decrease, greater energy efficiency is reached, transportation electrification progresses, etc.
- Prioritizes saving energy (energy efficiency)– electricity first, heat and transportation fuels also (example goal: City energy use reduction of 50% by 2050)
- Commits to new renewable energy – with the City meeting 100% of its electric needs from clean, renewable sources by 2030
- Includes energy equity, affordability and access
- Dovetails with MGE adopting the Paris goal of reducing carbon emissions by at least 80% by 2050
- Synchronizes with Dane County climate planning & implementation, promotes collaboration
- In good company with 70+ leading US municipalities plus cities globally that have adopted 100% renewable energy goals (some more aggressive); 5 US cities have reached them already

### **Benefits: Fitchburg Residents, Businesses & Organizations to Reap Environmental, Economic & Health Benefits of Clean Energy & Climate**

- Drives down energy costs to more than repay Energy Efficiency (EE) investments
- Fitchburg taxpayers will save money from EE investments
- Fitchburg energy savings will allow for responsible allocation of resources toward city services
- Clean solar & wind energy, already cost competitive, will save money or cost no more
- Low & moderate income residents will enjoy benefits of energy efficiency & renewable energy
- New businesses & residents will locate in Fitchburg- a Clean Energy City that Cares
- Fitchburg will support local, community-based renewable energy and jobs
- Fitchburg will become more self-reliant and resilient to severe climate events
- Childhood asthma, lung and other local health impacts of burning fossil fuels will begin to abate
- Fitchburg will actively engage in safeguarding good quality of life for their children, grandchildren and future generations.

*City of Fitchburg, January 2019*

*Adapted from Middleton Addressing Global Warming Through Clean Energy, by Sherrie Gruder & Stacie Reese*

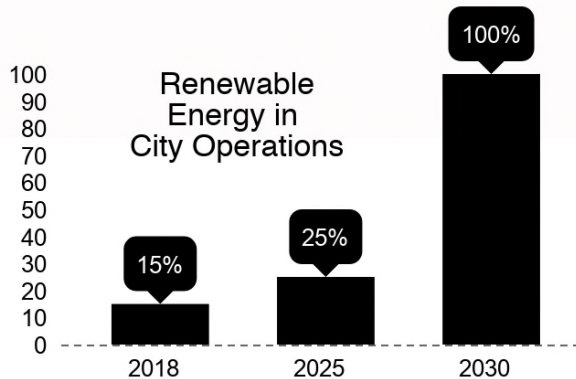
# Clean Energy Goals

## 100% Renewable Energy

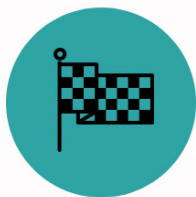
### How much of our energy do we want from renewable sources?

### 100% Renewable Energy

The 100% Renewable Energy Resolution is a strong step toward action by setting ambitions, achievable targets and guidelines for energy use reduction and renewable energy generation for city operations and the community as a whole.



### The Resolution



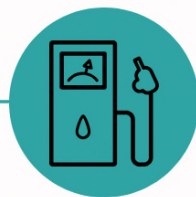
#1

Set Goals



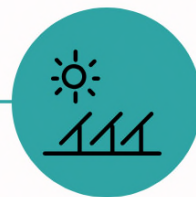
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Prioritize Energy Efficiency



#3

Reduce Energy Use



#4

Commit to Solar and Wind Sources

### Background



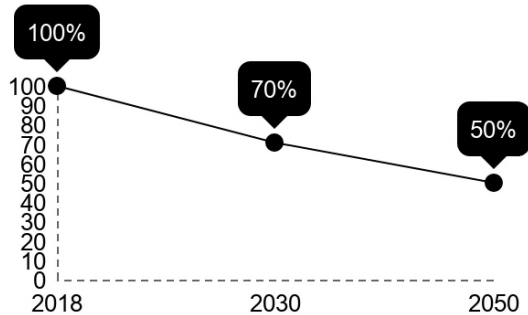
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# Clean Energy Goals

## 100% Renewable Energy

### Reduce Energy Use

City Operations



### Goals in Wisconsin

**Middleton:** 100% renewable energy for electric needs by 2035, all municipal energy by 2040

**Monona:** 100% renewable energy for electric needs by 2030, all municipal energy needs by 2040

**Eau Claire:** 100% renewable energy by 2050 for city operations and community-wide energy use

### Benefits



**#1**

Reduce Energy Costs



**#2**

Reduce Negative Health Impacts



**#3**

Support Local Renewable Energy Jobs



**#4**

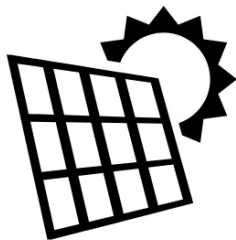
Attract New Businesses and Residents



**#5**

Increase Resiliency and Self-Reliance

### Renewable Energy



Solar Generation



Wind Turbines



Electrification of Transportation and Heating