



Local Government Summit: Building Sustainable Communities through Energy & Resilience



Background



- Sustainability Committee formed in early 2008.
- Early projects:
 - The Natural Step study circles
 - Monthly sustainability seminars
 - Working w/ schools on environmental education
 - Community gardens
 - Goal setting

Middleton's first community garden, Forsythia Community Garden - 2009



Long-Term Sustainability Efforts



- 2nd most compact City in Dane County
- 49.3% of housing in multi-unit structures (in 2010)
- One of the 1st New Urbanist neighborhoods in the Midwest
- Net provider of jobs to the region (8,616 in 2010)



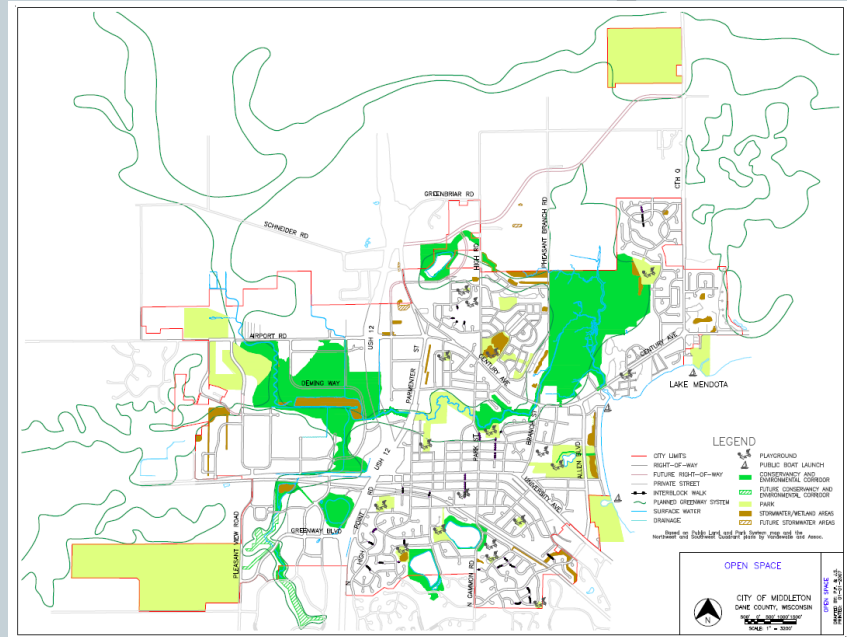
Existing Sustainability Efforts



- 20% of our land in open space
- Stringent stormwater management practices in place
- Growing trail network and Bike/Ped Plan in place



Pheasant Branch Conservancy

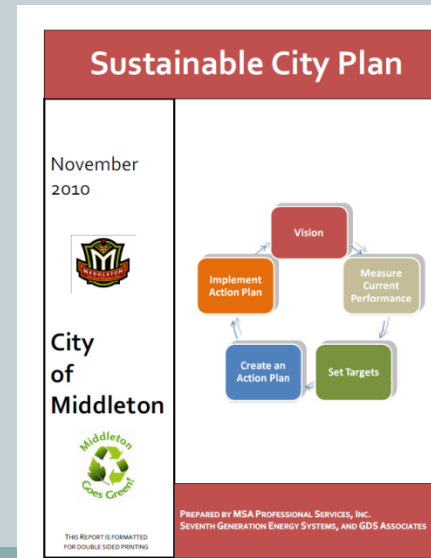


Open Space Map

2010 – A Banner Year



- City adoption of the Sustainable City Plan, which benchmarks sustainability efforts using a **systems approach**
- City joined the Green Tier Legacy Charter to compare sustainability benchmarking efforts and learn from other communities



How do we benefit from Green Tier?

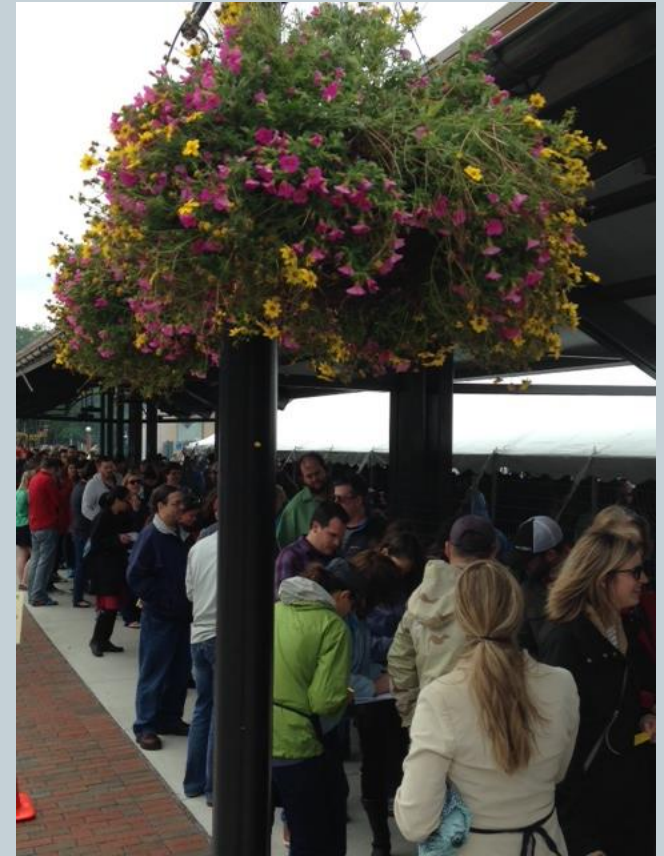


- **Information-sharing**
- Green Tier efforts to hire an engineer to jointly provide energy benchmarking services to Green Tier Communities
- Green Street grant for Middleton Beach Road.
- Sustainable Purchasing Plan

Terrace Avenue Reconstruction



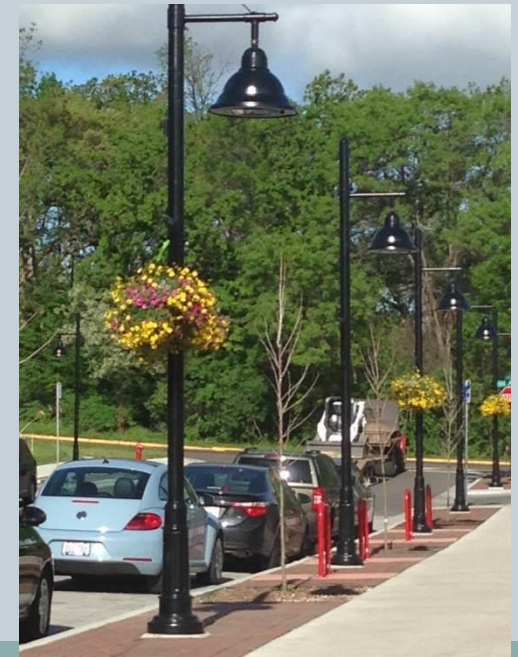
- Mixed-use street including Capital Brewery, new 39-unit Middleton Station Apartments, Quarry Skate Park, daycare, offices, and single-family homes.
- Bike Boulevard
- Recaptured water for flower baskets
- Terrace Avenue Pavilion (T.A.P.) with solar power
- Winner of 2015 ASCE Engineering Achievement Award



Terrace Avenue Reconstruction



- Electric vehicle charging
- L.E.D. streetlights
- Located on City bus route and free Middleton trolley route



Downtown Brick Pavers



- Permeable pavers with a porous asphalt base to allow infiltration
- Bricks trap suspended solids and filter pollutants from the water
- Old bricks were provided to residents for re-use



Water Conservation Programs



- \$40,000 annual budget for water conservation, funded through the Middleton Water Utility
- \$100 toilet rebates for residential customers
- \$100 toilet rebates, \$25 pre-rinse spray valves, and 50% cost reimbursement for water audits for commercial customers

Conservation Challenge

- 148 households
- Saved 2,202,300 gallons of water or 26% of their baseline usage*



DON'T FLUSH THIS OPPORTUNITY!

\$100 Toilet Rebate*
when you replace an old or inefficient fixture with a WaterSense labeled toilet

- 1 Shop for a new toilet with a WaterSense label
- 2 Submit your receipt and rebate form to:
City of Middleton
7426 Hubbard Avenue
Middleton, WI 53562
- 3 Receive up to \$100!

Visit cityofmiddleton.us/waterconservation for more details.
Questions? Call 608-821-8370

* Limit 1 per address per year. Single-family and duplex owners and renters eligible for above rebate.

Hurry! Limited Quantity Per Year!

COMMERCIAL PROPERTIES**
A 50% water audit reimbursement, \$100 toilet rebate, and \$25 pre-rinse spray valve rebate are available.

** Including triplexes, multi-family, commercial, industrial, and public authority.

look for WaterSense
Meets EPA Criteria

Middleton Recycling Center

MIDDLETON RECYCLING CENTER

4330 Parmenter Street
Next to DOT Park & Ride Lot

OPEN:
Saturdays,
from 8am–noon

Recycle BIG & little items!

The City recycles an array of both large & small items. Some items include:

- Metals
- Electronics
- Large cardboard
- Hard plastics
- Solo® brand cups
- Earth's Best® & Ella's® Kitchen baby food pouches
- Brita® & PUR® brand products
- Colgate brand oral care products

For a complete list of items, and to find out more, visit our website!



cityofmiddleton.us/recyclingcenter

Middleton Recycling Center



MGE Shared Solar Project



- 500 kW solar array at Municipal Operations Center
- 100 kW solar array at Middleton Police Department, which will power 25% of the building's energy needs



City of Middleton Climate Referendum

**Question 1:
Passed – 80.6%**

**Question 2:
Passed 72.3%**

THE CITY OF MIDDLETON

is giving **RESIDENTS** the opportunity to demonstrate the role you **THINK** the City should play in **SUSTAINABILITY** by asking you to **VOTE** on two questions related to **CLIMATE CHANGE**.

QUESTION 1	QUESTION 2
Should the City of Middleton reduce the risks of global warming through its policy decisions and actions?	Should the City of Middleton endorse a federal carbon fee and dividend program as part of a national strategy to reduce the risks of global warming?

VOTE ON THE NOVEMBER 8 BALLOT

City in the country to have an advisory referendum on a federal carbon fee and dividend on a ballot.

and is the climate change solution created by Citizens' account for the costs of burning fossil fuels. As proposed and Dividend program would: a fee on fossil fuels (coal, oil, and gas), and the net fees to households each month. The goal of a carbon observation and make renewable energy more economically jobs to the American economy.



Municipal	Municipal
<p>QUESTION 1: Should the City of Middleton reduce the risks of global warming through its policy decisions and actions?</p> <p>Update: Passed 81%</p> <p><input type="radio"/> Yes</p>	<p>QUESTION 2: Should the City of Middleton endorse a federal carbon fee and dividend program as part of a national strategy to reduce the risks of global warming?</p> <p>Update: Passed 72%</p> <p><input type="radio"/> Yes</p>

What we did – 1st in the Nation



- Collaboration with Citizens Climate Lobby
- Discussed and drafted the referendums
- Approval to move forward with the referendum through council
- Paid to place it on the ballot
- Community outreach – radio, TV, newspaper, magazines, endorsements, website, school involvement, yard signs, flyers, press event and the Capital

Endorsements for the Climate Referendums



- Kurt Sonnentag - Middleton Mayor
- Dianne Hesselbein - State Representative - District 79
- Kathy Olson - Middleton Alderperson - District 1
- Gurdip Brar - Middleton Alderperson - District 2
- JoAnna Richard – Middleton Alderperson – District 3
- Hans Hilbert - Middleton Alderperson - District 7
- WISC-TV Editorial Board
- Citizens Climate Lobby
- Clean Wisconsin
- Friends of Pheasant Branch
- Coalition of Wisconsin Aging Groups
- NAACP Dane County Branch
- Spencer Black - Former Wisconsin State Assembly Representative
- Dr. Jonathan Patz - Director, Global Health Institute, UW Madison
- Tom Vandervest - Former Principal - Middleton High School
- Nick Uthphall - Pastor - Advent Lutheran/Madison Christian Community
- Mark Opitz - Former Dane County Supervisor
- Kathy Nieber-Lathrop - President, Kiwanis Club of Middleton
- Ellen Lindgren - Retired School Board Member, President-Elect Kiwanis Club of Middleton

Outreach



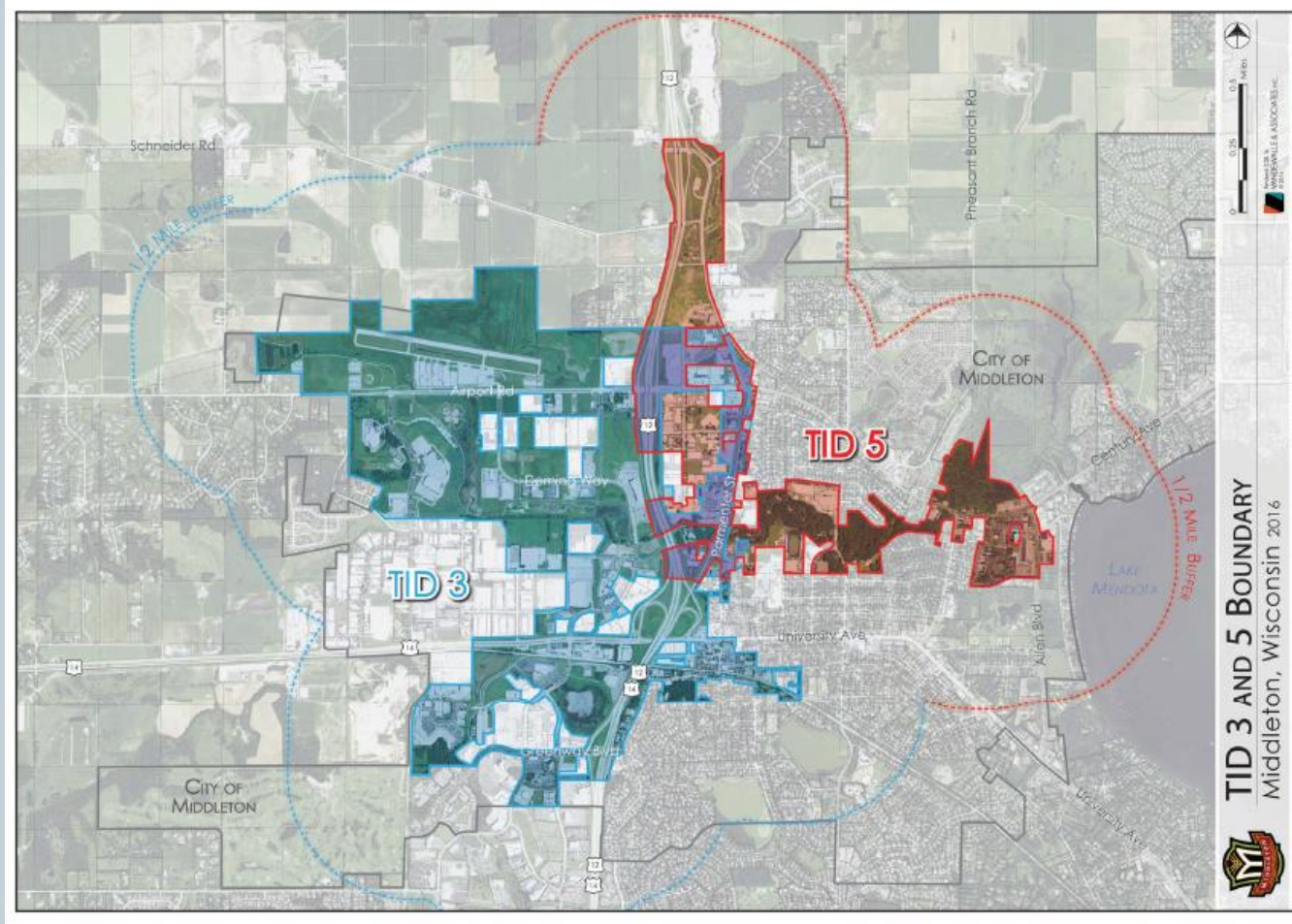
VOTE YES

for Climate Nov 8

<p>● YES Should the City of Middleton endorse a federal carbon fee and dividend program as part of a national strategy to reduce the risks of global warming?</p>	<p>● YES Should the City of Middleton reduce the risks of global warming through its policy decisions and actions?</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------

Learn more at
MiddletonClimateReferendum.com

TIF Incentives for Sustainability



Sustainability in TIF Plans

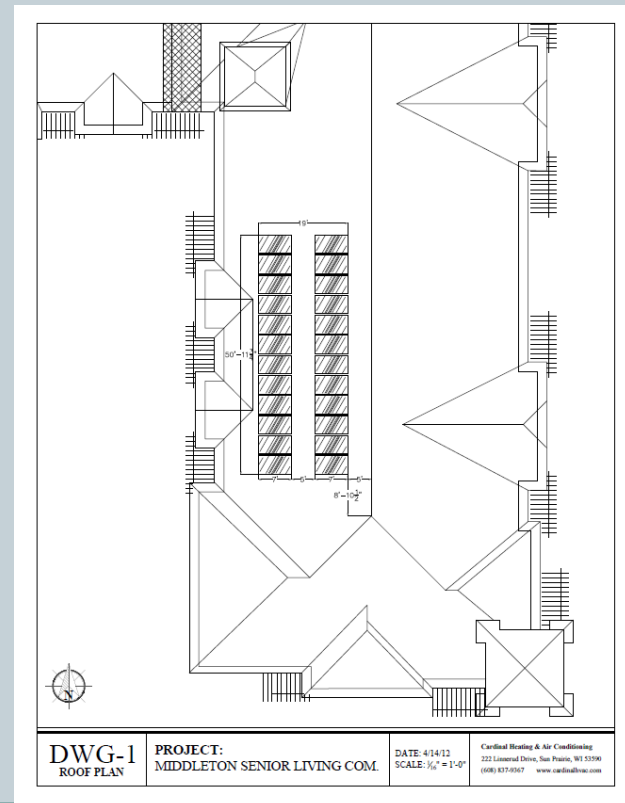


- TIF #3, 1993 - “Sustainable features/renewable energy systems for infrastructure”
- TIF \$5, 2009 – “New development/density/energy efficiency incentives. Sustainability will also be a goal that must be met in order for the City to participate in funding.”

Heritage Senior Housing (2010)



- \$250,000 in support of sustainability measures, incl. **20 kW** solar hot water



Parmenter Circle II (2014)



- \$315,000 in support of sustainability features, including a **71.2 kW** solar array



Laser Express (2016)



- \$142,689 in support of a **102.4 kW** solar array



Market West Apartments (2016)



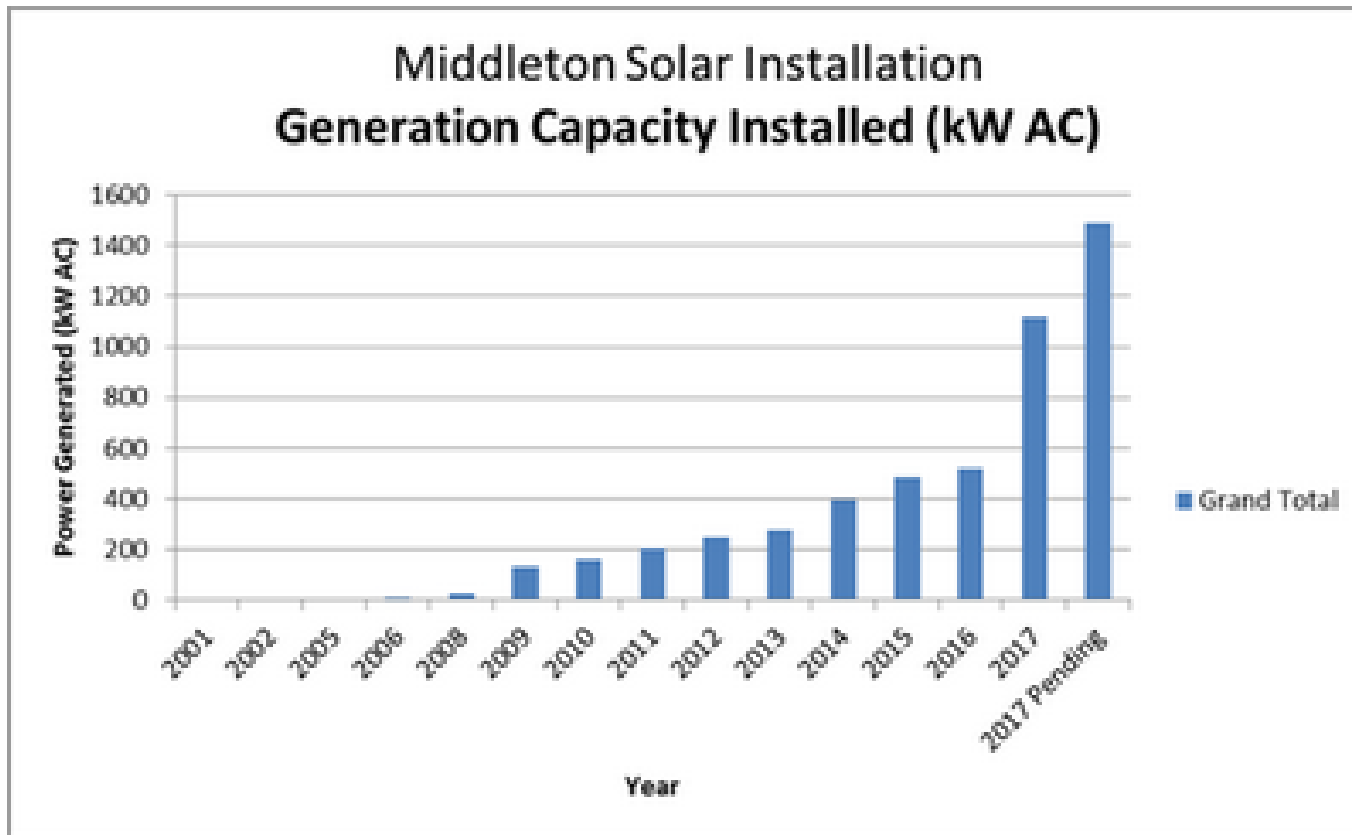
- \$559,125 in support of a **320** kW solar array



Middleton Solar



Cumulative Solar Projects in Middleton

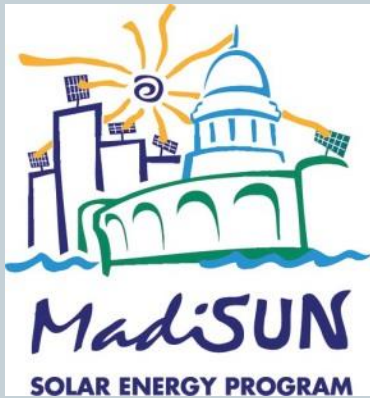


What's next?



- A second larger community solar program
- City-initiated solar
- Curbside Compost / Biodigester?
- Updated Sustainable City Plan – accomplished 60% yo date
- 100% renewable energy & net-zero greenhouse gas emissions
- Battery Recycling

Collaboration and community involvement



Dane County

City of
MONONA



Comments / Feedback



- To view the Middleton Sustainable City Plan in its entirety, please visit www.cityofmiddleton.us. Click on Government, Sustainability.

Spencer Schumacher

Sustainability Committee Chair

Spencer@SpencerREG.com