



LOCAL GOVT./UTILITY PARTNERSHIPS TO ADVANCE CLEAN ENERGY

A PRESENTATION TO THE SUSTAINABLE LA CROSSE COMMISSION

FEBRUARY 15, 2018



ABOUT ME ...

- Program and Policy Director, RENEW Wisconsin
- Member, Sustainable Madison Committee



Where I live

WIS. STATS. 1.12 - STATE ENERGY POLICY


(5) MEETING ENERGY DEMANDS.

- (a) In designing all new and replacement energy projects, a state agency or local governmental unit shall rely to the greatest extent feasible on energy efficiency improvements and renewable energy resources, if the energy efficiency improvements and renewable energy resources are cost-effective and technically feasible and do not have unacceptable environmental impacts.

WIS. STATS. 1.12 - STATE ENERGY POLICY

(b) To the greatest extent cost-effective and technically feasible, a state agency or local governmental unit shall design all new and replacement energy projects following the priorities listed in sub. (4).

- ❖ (a) *Energy conservation and efficiency*
- ❖ (b) *Noncombustible renewable energy resources.*
- ❖ (c) *Combustible renewable energy resources.*
- ❖ (cm) *Advanced nuclear energy*
- ❖ (d) *Nonrenewable combustible energy resources*



The conclusion is clear: There are no external barriers to local pursuit of clean energy actions, so long as:

- ❖ The actions undertaken can be justified on the basis of cost and feasibility; and
- ❖ The actions are consistent with Wisconsin public utility law.

CITY OF MADISON'S STORY

June 2014	MGE proposes radical rate restructuring; municipalities (e.g., Madison) intervene in rate case; Repower Madison forms
April 2015	Sustainable Madison Committee (SMC) forms working group to craft energy plan for City
June 2016	Common Council adopts SMC-developed energy workplan; SMC initiates review of City's energy goals
Dec. 2016	SMC advances revised energy goals; alders sponsor 100% RE/net zero carbon resolution for City operations + MSN community
March 2017	City adopts 100% RE/net zero carbon resolution; allocates \$250K to hire consultant to recommend timetables for City operations + MSN community; authorizes MOU between City + MGE
Sept. 2017	City approves Memorandum of Understanding with MGE

MIDWEST ENERGY NEWS

<http://midwestenergynews.com/2017/03/24/wisconsins-capital-city-sets-a-high-bar-with-ambitious-renewable-energy-goal/>



Wisconsin's capital city sets a high bar with ambitious renewable energy goal

Written By

[Kari Lydersen](#)

March 24, 2017

SET CLEAN ENERGY GOALS FOR CITY/COUNTY

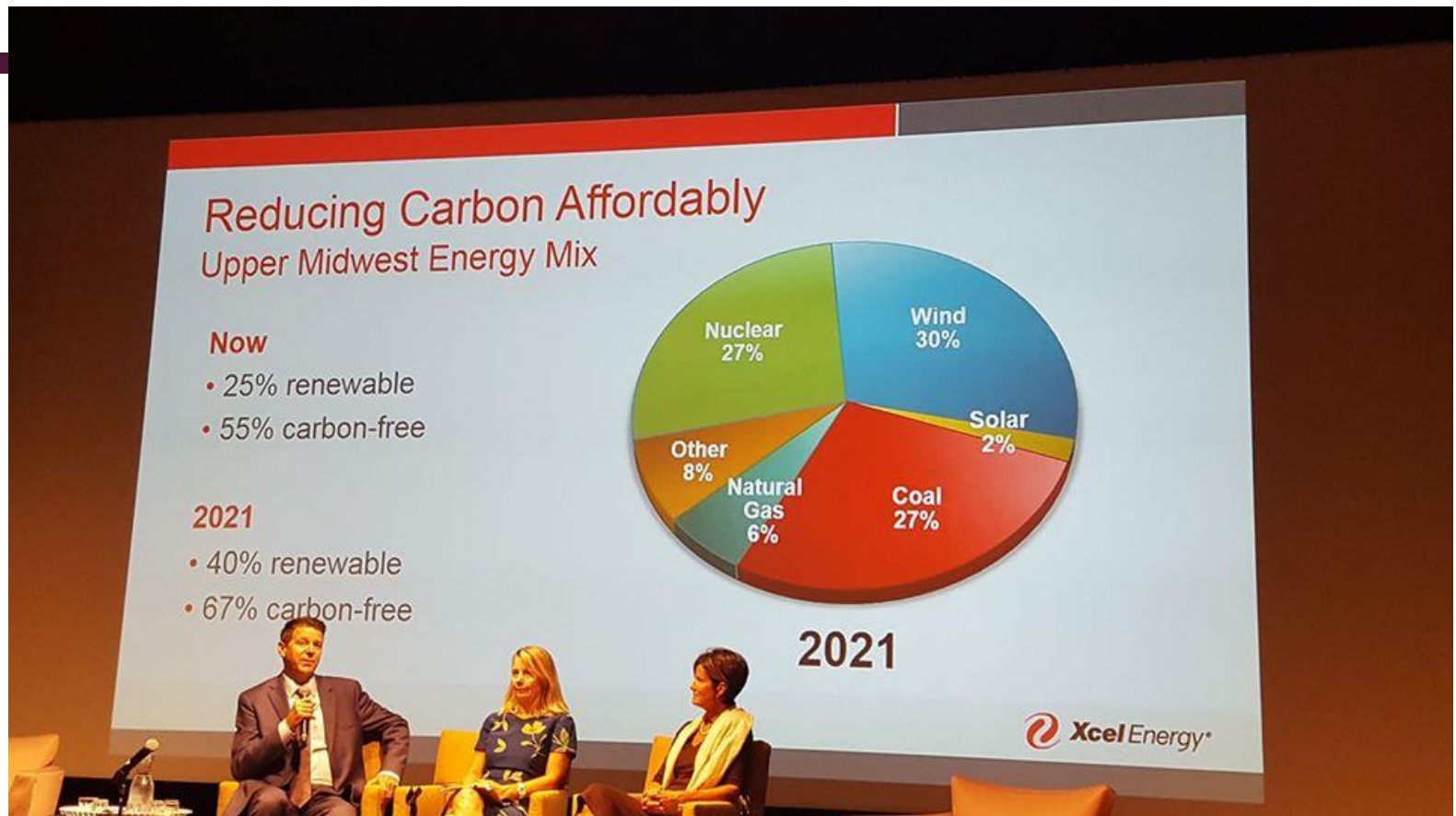
X% RE by 20____, or zero net energy by 20____

Issues:

- City operations, communitywide or both?
- Electric only or electric + transportation + heating?

IMPORTANT STEPS

- **Determine City/County's Resource Baseline**
- **Determine Utility's Resource Baseline and Trend Line**



Now = 2016

Xcel has set its own timetable for expanding its reliance on renewables and decarbonizing its generation portfolio.

PURPOSE OF MOU W/ LOCAL UTILITY

Municipality's perspective: Achieve its clean energy/climate goals more quickly and more broadly

Utility's perspective: Obtain municipality support and collaboration to increase probability of achieving its own clean energy/resource diversification goals

STRUCTURE OF CITY OF MSN/MGE MOU

- **Delineation of Goals (both parties)**
- **Identify Specific Areas of Collaboration**
- **Process and Public Accountability**
- **Acknowledgement of PSC Authority**
- **Housekeeping**

POTENTIAL AREAS OF COLLABORATION

- ✓ Expansion of solar
- ✓ Electric vehicles (municipal fleets + buses)
- ✓ Energy efficiency (help with benchmarking)
- ✓ Clean energy district

Dane County eyes solar expansion

Thirty acres of panels could be installed at Dane County Regional Airport

LOGAN WROGE

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Dane County will explore the possibility of installing 30 acres of panels at the Dane County Regional Airport.

The airport will partner with to look into a project that could generate more than 6 megawatts of electricity. After exploring the potential for the project, the firm would consult with solar developers to submit proposals. The project would add to Dane County's growing profile of renewable energy sources.

"The future is now when it comes generating clean, renewable, home-grown energy, and I'm committed to Dane County leading the way," County Executive Joe Parisi said in a statement Thursday. "A project of this scale will take months, and we think about the

Center and the Dane County Job Center.

Even without the planned additions, the county produced almost as much power from its existing solar operations and bio-gas generators from its landfills last year as it did

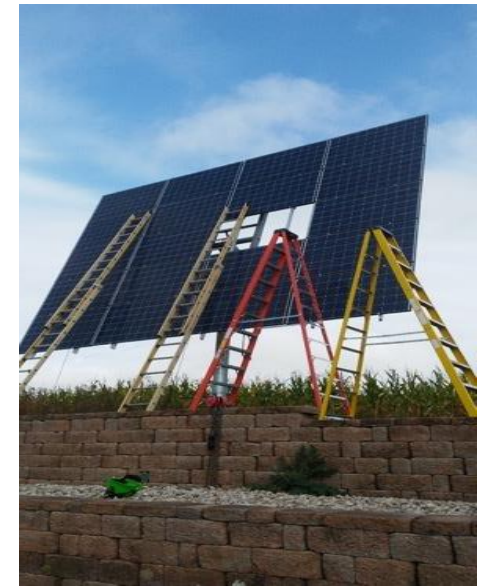




Well 26



City of Madison Solar Training 2017



Location	Capacity (in kilowatts)
Streets West	99
Well #26	21.6
Fire Station #12	18.9
Total	139.5



Fire Station #12

SOLAR GROUP BUYS – THE VALUE PROPOSITION

- Local nonprofit sets financial terms, marketing
- One contractor is selected
- Nonprofit also:
 - Holds education sessions across community(ies)
 - Performs high-level screening w/ Project Sunroof
- Arrangement lowers cost per installation – passes savings to customers

ELECTRIC BUSES



Metro Transit Receives Federal Grant to Purchase Three Electric Buses

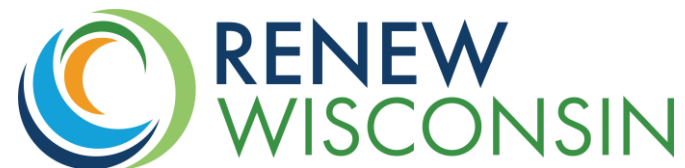
Buses Expected to Hit the Streets in 2019

Thursday, September 21, 2017

Metro Transit has been awarded a \$1.3 million Federal Transit Administration (FTA) Low or No-Emission grant to help with the purchase of three Proterra battery-electric buses in 2019. The new electric 40-foot buses will replace three retiring diesel buses in Metro's fleet. <snip>.

“The Mayor set a goal of making 50 percent of Metro’s buses zero emission by 2035.”

MADISON'S SOLAR GROUP BUY PROGRAM



PLANNED SOLAR GROUP BUYS - 2018

Where

MadiSUN

Solar Jefferson County

Solar Sauk County

Washburn/Bayfield County

Waukeshines (Waukesha Co.)

Nonprofit Sponsor

RENEW

MREA

MREA

Chequamegon Bay Renewables

SunVest Solar

ZERO NET ENERGY DISTRICT



An architectural rendering for Rochester's Destination Medical Center, a \$5.6 billion development that aims to be net-zero energy.

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