

AWARD PRESENTATION

Michael Vickerman



RENEWABLE ENERGY PIONEERS OF THE YEAR

Madison Gas and Electric
Middleton-Cross Plains Area School District
City of Middleton





Madison Gas & Electric's RENEWABLE ENERGY RIDER





ATTRIBUTES OF A UTILITY OFFSITE PV SERVICE

- Price of renewable electricity over a 30-year period is specified in a Power Purchase
 Agreement
- Service pays for the project -- does not shift costs to other customers
- Sidesteps solar siting constraints at customer's own facilities
- Utility assumes all project management responsibilities
- Service can account for significant fraction (<40%) of customer's load



July 26, 2019

CAL&STATE

Deal on solar power a first

Energy from panels to serve Middleton, school district and others

ehamer@madison.com

As interest in clean energy increases, many local governments, school districts, technical colleges and large corporations want to get power from largescale renewable energy plants located nearby, but don't have the means to access them.

A first-of-its-kind agreement in Wisconsin between Madison Gas & Electric, the city of Middleton and the Middleton-Cross

The PSC unanimously ap- use some of the power generated. proved the partnership on a 17,000-panel solar project that Middleton and the school dis- tal amount of energy produced



Plains School District — which A field next to the Middleton Municipal Airport will be home for a large was approved Thursday by the solar array with 17,000 panels if a Madison Gas & Electric solar project Wisconsin Public Service Com- receives final approval from the Federal Aviation Administration. The mission - will allow for just that. city of Middleton and the Middleton-Cross Plains School District would

to Middleton Municipal Airport. megawatts of energy - enough The city and the school dis-community," Freiman said.

Under the agreement, MGE energy to power 475 homes in a trict will be the first-ever cuswill build the solar array, and year - from the panels. The to- tomers in Wisconsin to contract

with their local power utility to receive clean energy from an off-site solar plant, according to Renew Wisconsin. The partnership opens the door for other organizations to do the same, said Renew Wisconsin executive director Tyler Huebner.

"This approval blazes a path that state government, local governments, and companies all across Wisconsin can follow to voluntarily increase their renewable energy usage in a cost-effective manner," Huebner said in a statement.

The new agreement, called a Renewable Energy Rider, allows large energy users with multiple facilities - such as governments, school districts or large companies - to source their energy from a nearby solar plant. MGE spokeswoman Kaya Freiman said this is MGE's first-ever Renewable Energy Rider.

"It's an innovative model for is set to be built on a field next trict will pay to get access to 1.5 by the array will be 5 megawatts. growing clean energy in our

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First offsite PV array approved for serving a utility's retail customers in Wisconsin







Middleton - Cross Plains Area School District

inclusive. innovative. inspiring.





MGE breaks ground on Middleton solar farm

Utility also plans 20-megawatt project in Fitchburg

MIDDLETON - Madison Gas theutility's largest Keebler and Electric announced the start solar farm - but

constructed at the Middleton Municipal Airport, is expected to be year and will be

Solar



The utility also has O'Brien Solar Farm, plans to purchase a would likely be built in

20-megawatt solar farm stages and made available being developed near Lacy through Renewable En-Road and South Seminole ergy Rider, which allows Highway in Fitchburg. commercial and industrial Sterling Root, manager customers to contract for of business development clean energy. for EDF Renewables, said Once completed, the the company plans to ap- announced solar projects ply for a conditional use will account for more than permit early next year a third of MG&E's owned and to break ground in the generation capacity.

spring or summer. MG&E spokesman Steve Schultz said the project, known as the

tion to power all ergy goals."

city operations "We're working as quickly as opments. with renewable we can toward that goal," Keebler

The rest will be The school district expects its a lot more we can do." available to resi- 1-megawatt share of the solar MG&E expects to complete a

dleton and is planning another percent of the power generated Keebler, who earlier this year an-said the city's share of the airport two large solar farms expected to 20-megawatt project in Fitch- to the Middleton-Cross Plains nounced a goal to produce car- solar farm is expected to save \$1.2 come online in early 2021. burg to provide clean energy for School District and the city of bon-neutral electricity by 2050, million over the life of the project. Middleton, which last year ap- said the project represents "an- He said the city is also putting so-

proved a resolu- other step toward our shared en- lar panels on its buildings and is open to other large-scale devel-

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"I think we're a leader in sustainability." Brar said. "But there's

dential customers farm will save more than \$28,000 9-megawatt solar farm later next through the com- in energy costs in its first year and year at the Dane County Regional pany's Shared So- more than \$1 million over the next Airport to provide power for Dane County operations and has pur-5-megawatt solar farm in Mid- MG&E has contracted to sell 30 MG&E president and CEO Jeff Middleton Mayor Gurdip Brar chased a 150-megawatt share of



Now under construction, MGE's 5 MW solar array will set aside 1.5 MW for its first two Renewable Energy Rider customers.





RENEWABLE ENERGY BUSINESS OF THE YEAR

Carlson Electric

Hayward, Wisconsin





Carlson Electric

WISCONSIN'S #1 SOLAR INSTALLER - SINCE 1977 - OFFICES IN HAYWARD & HUDSON







AFFORDABLE HOUSING

Sawyer County
Housing Authority

Project capacity: 153 kW (6 locations, 52 households in the Hayward, WI area)

Legacy Solar Co-op







Northland Lutheran High School

Kronenwetter





Humane Society of Burnett County







Spooner Civic and Community Center















On deck for 2020

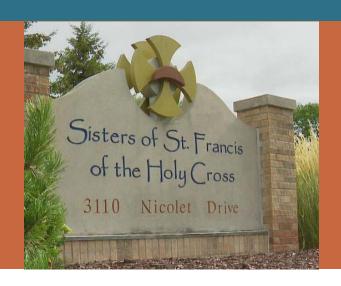
More solar-powered affordable housing!

(116 kW serving 48 households at six locations in the Hayward, WI area)





RENEWABLE ENERGY CATALYST OF THE YEAR



Sister Rose Jochmann

Sisters of St. Francis of the Holy Cross Green Bay









Sister Rose Jochmann





Dedication ceremony, June 18, 2015, of the Sisters' first array, a 112 kilowatt designed and installed by Green Baybased Eland Electric.







More than just a power plant, the Sisters' array served as an outdoor classroom and a landscape for promoting an environmental ethic.







The first array accounted for 30% of the electricity used by the Sisters. It was a good start, but the Sister's sustainability committee, chaired by Sister Rose, aspired to reach a higher percentage.







Sister Rose took charge of the effort to expand their use of solar and raise funds to build a second array. Grants from Focus on Energy and Solar for Good accounted for one-third of the array's cost.







Sister Rose: "We've spread the message about the solar project. We've reached at least 500 people through presentations."









RENEWABLE ENERGY CATALYST OF THE YEAR

The team of
Bjorn "Red" Thompson
Jon McCarthy
Attic Angel Community







Attic Angel's first foray into solar power came in 2018, with the installation of 98 kW on the main building. As members of AA's sustainability committee, Red and Jon helped select the solar contactor (SunVest Solar) and raise money for the project.









Then Red and Jon turned their attention to their own community (the Prairie Point residences). Working with SunVest, Red and Jon designed an offering that would put solar PV on their own rooftops and those of their neighbors. Attic Angel Association gave them all the support they needed.





Red and Jon then approached all of their Prairie Point neighbors with a standard offer for becoming solar hosts, much like a solar group buy. The proximity of these residences to each other as well as their physical similarity to each other were key factors in landing on an affordable price.











The Result?

40 of the 123 residences in Prairie Point signed up to host solar panels.

Red and Jon's initiative leveraged in the installation of 133 kW of solar in 2019.









Red and Jon's initiative coincided with the installation of a 135 kW array serving Attic Angel's memory care unit. The campus now hosts 366 kW of rooftop solar capacity, by far the largest solar investment by a senior housing community in Wisconsin.





A TESTIMONIAL FROM SUNVEST SOLAR





When Madison's senior living campus, Attic Angel Community, decided to Go Solar, they moved FAST!! 🕺 🦜

In 2018, they installed 98kW on one apartment building. This spring, 40 independent units installed a total of 133kW, and most recently they installed 135kW on their assisted living facility.

You're doing great things for your community and the environment. Way to go!!









RENEWABLE ENERGY PROJECT OF THE YEAR

BUTTER SOLAR





Butter Solar represents the culmination of a unique public-private partnership involving an independent power developer and its partners, municipal utilities, a food cooperative, and a city government.











Argyle array • 700 kW

Upper Midwest Municipal Energy Group





UMMEG and its member communities purchase the output from the solar arrays developed by OneEnergy Renewables.









At the same time, Organic Valley and the City of Madison purchase the renewable energy attributes associated with the solar output, providing another revenue stream that contributes to the project's financing.





The REC purchasers— **Organic Valley** and the City of Madison-have committed themselves publicly to ambitious renewable energy/carbon reduction goals.







WITH THE REC PURCHASE ...

Organic Valley Becomes 100 Percent Renewably Powered

Largest Food Company to Source All Its Electricity from Renewable Sources Brings Cost Savings to Rural Midwest

Organic Valley, August 01, 2019

Organic Valley, America's largest cooperative of organic farmers and one of the nation's leading organic brands, today announced that construction of three community solar projects totaling 12.67 MWdc is complete, making the cooperative the largest food company in the world to be 100 percent renewably powered. These solar projects are part of the 32 MWdc Butter Solar Portfolio ("Butter Solar") which is owned and operated by BluEarth Renewables US.



MIDWEST ENERGY NEWS

LOCAL GOVERNMENT

By Kari Lydersen March 24, 2017

Wisconsin's capital city sets a high bar with ambitious renewable energy goal – 100% RE by 2030



Madison, Wisconsin committed to getting 100 percent of its energy from clean, renewable sources in a resolution passed unanimously by the City Council on Tuesday. It became the 24th city to make such a promise.



Note: Covers City of Madison operations, including transportation and heating. **

REC's from five Butter Solar arrays will account for 1/3rd of Madison's clean electricity goal



Sheep from a neighboring farm demonstrating their value as a vegetation management tool at Butter Solar's Cashton array.



A neighboring farm's sheep herd helps manage the organic pasture where the new solar project is located. Courtesy of Lexi Leum from Organic Valley







Wisconsin contractors such as Arch Electric participated in the construction of Butter Solar, contributing expertise and high-quality workmanship to the job sites.









