



2020

# RENEWABLE ENERGY SUMMIT

2020 VISION: THE PATH TO 100% CLEAN ENERGY

THURSDAY • JANUARY 16, 2020

MONONA TERRACE AND CONVENTION CENTER • MADISON, WI



214 N Hamilton Street, Ste 300  
Madison, WI 53703

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# Welcome

## 2020 VISION: THE PATH TO 100% CLEAN ENERGY

Welcome to RENEW Wisconsin's 9th Annual Renewable Energy Summit! We are so glad you are here with us today.

As we embark on a new decade, ambitious clean energy goals abound from utilities, elected officials, and residents across Wisconsin. Today's Summit will help us focus in on the solutions and scale needed to achieve 100% clean energy.

Renewable energy, from installations small and large, will need to grow exponentially, and will bring tremendous benefits for our state's economy and environment. Technologies like electric vehicles and energy storage, deployed at scales never seen before, will present even more opportunities to keep our energy dollars in Wisconsin's communities and increase clean energy sources.

We need to think big, work together, and seize the day - and the decade - to make big strides toward a Wisconsin powered by clean energy. We are glad you're here to help us make this happen. Have a great Summit!

*Tyler Huebner* • Executive Director







## AGENDA

- 7:00 REGISTRATION AND BREAKFAST** (Grand Terrace)
- 7:30 101 SESSIONS**  
Meeting Room KLOP • **Renewable Energy** 101  
Meeting Room MNQR • **Electrical Grid** 101
- 8:30 WELCOME AND OPENING ADDRESS**  
Madison Ballroom
- 8:45 2019 ACHIEVEMENTS**  
Madison Ballroom
- 9:00 PLENARY PANEL: POLICY AND WHAT'S POSSIBLE**  
Madison Ballroom
- 9:45 RENEWABLE ENERGY STORIES**  
Madison Ballroom
- 10:15 BREAK**
- 10:45 BREAKOUT SESSIONS**  
Hall HI • **Energy Storage**  
Hall J • **Biogas in Wisconsin's Carbon-Free Future**  
Meeting Room KLOP • **EVs Driving Renewable Energy Growth**  
Meeting Room MNQR • **Transitioning from Coal**
- 11:30 LUNCH** (Grand Terrace)
- 12:00 KEYNOTE ADDRESS • Katherine Hamilton**  
Madison Ballroom
- 12:45 AWARDS**  
Madison Ballroom
- 1:00 BREAK**
- 1:30 BREAKOUT SESSIONS**  
Hall HI • **Advancing Distributed Generation**  
Hall J • **Educating Wisconsin's Renewable Workforce**  
Meeting Room KLOP • **Large Scale Wind and Solar**  
Meeting Room MNQR • **Community-Led Clean Energy**
- 2:30 PLENARY PANEL: 2020 VISION**  
Madison Ballroom
- 3:15 CLOSING REMARKS**  
Madison Ballroom
- 3:30 SOCIAL HOUR** (Grand Terrace)



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# 7:30 AM

## 101 SESSIONS

### MEETING ROOM KLOP • RENEWABLE ENERGY 101

Aimed at renewable energy newcomers, this session discusses renewable energy technologies and how they are used in Wisconsin. The goal of this session is to give you a foundation to get even more out of the rest of the Summit!



**SAM DUNAISKI • RENEW Wisconsin**

Sam has been the Program Manager for RENEW Wisconsin since 2018. As Program Manager, Sam is responsible for creating partnerships between homeowners, businesses, nonprofit organizations, government entities, utilities, and solar contractors. Before joining RENEW Wisconsin, Sam worked as an operational meteorologist creating weather forecasts for utility companies, airports, insurance agencies, and radio stations. He holds a BS in Atmospheric and Oceanic Sciences from the UW-Madison.

### MEETING ROOM MNQR • ELECTRICAL GRID 101

Learn how the electricity grid works today, and how the grid will evolve to handle more clean energy and distributed technologies like solar power, batteries, and electric vehicles.



**LAUREN AZAR • Azar Law LLC**

Lauren practices law in the electric industry providing business, regulatory and policy advice, as well as project development and permitting. She works with state commissions on resilience, represents several utilities in permitting transmission lines, assists a technology company with market barriers in the electricity industry, guides a large investor-owned utility on how best to prepare for changing regulatory models, assists merchant developers in pre-development activities, and advises numerous clients on both federal and state regulatory issues.



# 9:00 AM

## POLICY AND WHAT'S POSSIBLE

### MADISON BALLROOM

Laws and policy set the framework for how today's energy systems work, and how the transition to clean energy will happen. These policymakers are making key decisions that can position Wisconsin to take advantage of renewable energy opportunities. How can policy help Wisconsin achieve a 100% carbon-free future?

MODERATOR



**JIM BOULLION • Government Affairs Director • RENEW Wisconsin**

Jim became RENEW's Government Affairs Director in December 2017. Before, he served as the Administrator of the Division of Policy Development at the Department of Safety and Professional Services and worked in government affairs for Wisconsin's largest construction trade associations.

**ROBERT COWLES • State Senator • WI 2nd Senate District**

Senator Cowles serves as Chair of the Senate Committee on Natural Resources and Energy and Co-Chair of the Joint Legislative Audit Committee. He also serves on the Senate Committee on Transportation, Veterans and Military Affairs and the Speaker's Task Force on Water Quality.



**GRETA NEUBAUER • State Representative • WI State Assembly District 66**

Rep. Neubauer has been a dedicated advocate for progressive causes for the past ten years. She believes in collaborative, community-driven policymaking. Her primary policy interests center on family-supporting jobs for every worker, community-oriented justice initiatives, and addressing climate change.

**ADAM NEYLON • State Representative • WI State Assembly District 98**

Rep. Neylon was appointed Chairman of the Assembly Committee on Jobs and the Economy, and is also a member of the Assembly Committee on Energy and Utilities.



**REBECCA CAMERON VALCQ • Chairperson • WI PSC**

Chairperson Valcq was appointed by Governor Evers to the Wisconsin Public Service Commission for a six-year term beginning January 2019. Prior to her appointment, she was a partner at Quarles & Brady, in the Energy, Environment and Natural Resources practice group.



## RENEWABLE ENERGY STORIES

### MADISON BALLROOM

The “Stories” portion of our Summit highlights three successful renewable energy projects in Wisconsin. These inspiring tales showcase the personal side of Wisconsin’s renewable energy industry and how clean energy is making a real difference in the lives of Wisconsin residents.

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**SCOTT ANDERSON • Juda High School**

Scott is a math/engineering teacher in Juda – a small rural town in southern Wisconsin. Prior to teaching, he was an engineer for 12 years and he strives for lessons centered on problem solving and persistence versus mere standards. His classes have helped install solar, lower electrical costs, and win multiple grants helping the school works towards its student-set goal of 10% green energy generated on-site.

*“STORY” In 2012, Juda high school students decided to make their carbon footprint smaller and set a goal of 10% renewable energy for their school. Each year since, Juda students press on toward their goal with actions and learn more about student involvement, persistence, and stewardship.*

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**NANCY VEDDER-SHULTS • First Unitarian Society**

Nancy is a Co-Founder of the Climate Justice Action Team at First Unitarian Society of Madison and a tax sponsor for First Unitarian Society’s solar array. She is also the former director of the Wisconsin Nuclear Weapons Freeze Campaign and a lecturer of Women’s Studies at UW-Madison.

*“STORY” For years, First Unitarian Society of Madison has sought to be a force for sustainability but the congregation faced several challenges, including trying to incorporate solar power on the roof of a landmark Frank Lloyd Wright building. Now a recently established Sustainability Ministry Team has moved the congregation forward, and an 83 kW solar array began producing power in 2019.*

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**ANTONIO BUTTS • Walnut Way Conservation Corp.**

Antonio, Executive Director at Walnut Way, is passionate about transforming economically excluded communities into neighborhoods of prosperity. Antonio’s career is marked by his collaborative leadership style and creating social enterprises for economic and social impact.

*“STORY” In the 1990s, a small group of residents committed to bringing life back to Milwaukee’s historic, once-booming northside neighborhood. Learn how an asset-based approach to community development transformed disinvestment into opportunity, through solar powered buildings, a \$700K landscaping program, urban agriculture, and civic engagement that is spurring economic vitality.*

# 10:45 AM

## ENERGY STORAGE

### HALL HI

Energy storage will be needed to maximize the benefits of solar and wind energy in the transition to a clean energy future. In addition, battery storage can enable homes, businesses, and communities to be more self-sufficient and resilient, and save money. How can utility and distributed scale battery storage help make Wisconsin's clean energy future a reality?



**STEVE DANBECK • Energy Storage Consultant • Arch Electric**  
Steve has an extensive technical background in the renewable energy management systems product development industry including contributions to system design concepts, performance goals and power electronics development. He is a certified Tesla Energy Technician and has several other credentials related to energy storage. He is actively commissioning systems for residents in Arch's portfolio.

**KAITLYN HOWLING • Storage Engineer • Invenergy LLC**

Kate is a Storage Engineer with Invenergy, identifying and securing opportunities to add to a pipeline of 1500MW+ energy storage projects worldwide. Kate's background in operations provides valuable experience to her leadership on the development team, focusing on contracting, procurement, and design of storage projects.



**THOMAS MULLOOLY • Energy Lawyer • Foley & Lardner LLP**  
Thomas has in-depth experience across all regulatory aspects of the energy industry and provides counsel on contracts, mergers and acquisitions, renewable project development, and state and federal and ISO compliance issues. He has led regulatory proceedings and litigation before FERC and in state commissions across the country. He is also head of the firm's Energy Regulation Practice.

**TIM WILSON • Engineering and Energy • Gundersen Health Systems**

Tim is responsible for leading and delivering energy conservation measures at Gundersen Health Systems. Gundersen is putting energy storage into practice: they recently installed an on-site energy storage system at a new health clinic to avoid the need for a backup generator.



10:45 AM

## BIOGAS IN WISCONSIN'S CARBON-FREE FUTURE

### HALL J

The model for successful biogas projects is changing in Wisconsin. What role can biogas play in Wisconsin's renewable energy future and how can strategic partnerships ensure the success of these facilities?



KEVIN DOBSON • Vice President • **DTE Biomass Energy**

At DTE, Kevin leads all acquisition and greenfield development of renewable energy projects, including both renewable natural gas (RNG) and electric generation projects. His responsibilities include identifying prospects, evaluating economic and technical feasibility, proposal development, contract negotiations, and scheduling and implementation activities.

STEPHEN DVORAK • President • **DVO, Inc.**

Stephen founded DVO, Inc., an environmental engineering firm based in Chilton, WI. DVO is the nation's largest digester company, with over 100 digesters in 19 states, and international projects in Australia, Canada, Chile, China, Serbia, South Africa, and South Korea.



MIKE KOEL • President • **U.S. Gain**

Mike has led efforts to diversify U.S. Gain across the renewable natural gas supply chain – investing and managing renewable natural gas development projects at dairies, landfills and wastewater treatment plants; generating, trading and monetizing clean fuel credits; and designing, building and operating natural gas fueling stations.

JESSICA NIEKRASZ • Chief Administrative Officer • **Clean Fuel Partners**

Jessica oversees day-to-day operations, develops and implements CFP's strategic plan, and provides instructional leadership to the entire team. She is the driving force behind the Wisconsin Biomass Energy Coalition (WBEC), bringing stakeholders together and initiating conversation on nutrient management while advocating for policy change.



# 10:45 AM

## EVs DRIVING RENEWABLE ENERGY GROWTH

### MEETING ROOM KLOP

Electrifying our vehicles and powering them with renewable energy is a tremendous opportunity for our state to keep dollars at home, increase homegrown renewable energy production, and reduce the environmental impacts of transportation. How are businesses and utilities preparing for and accelerating this monumental opportunity?



**JOSH COHEN • Policy Director • Greenlots**

Josh leads policy and regulatory engagement for the eastern US and Canada for Greenlots. Before joining Greenlots, he worked in policy and communications roles at SemaConnect and the Business Network for Offshore Wind, and hosted the clean energy podcasts More Power To You and Offshore Wind Insider.

**DEB ERWIN • Manager of Regulatory Policy • Xcel Energy**

Deb is Xcel Energy's Manager of Regulatory Policy for Wisconsin & Michigan. She works on a variety of regulatory issues related to renewable energy and new technologies, including Xcel Energy's solar garden program, Solar\*Connect Community, and Xcel Energy's new renewable program in Wisconsin, Renewable\*Connect.



**ROBERT FISCHER • President • GTiMA**

Robert is President of GTiMA, a Technology and Policy Advisor to Mandli Communications, and an Associate Editor of the SAE International Journal of Connected and Autonomous Vehicles. Both GTiMA and Mandli work with national, international and regional authorities to advance smart city standards, policies, and best practices – especially as they relate to automated, connected, electric and shared mobility.



**JANE MCCURRY • Program Manager • RENEW Wisconsin**

Jane is RENEW's electric vehicles program manager. She studied Operations and Technology Management and Environmental Studies at UW-Madison.

Prior to starting at RENEW, Jane was Executive Director of Wisconsin Microfinance, a nonprofit that provides very small loans in Haiti and the Philippines, and she currently serves on its board of directors.



**MATTHEW R. MCGOVERN • Attorney • von Briesen & Roper, S.C.**

Matt is a shareholder, registered lobbyist for Wisconsin, and chair of the firm's Energy and Clean Technology Section. He focuses his practice on energy and clean tech, and government relations matters for public and private sector clients. He is a member of the WI Policy Forum's Research Committee and a member of the Board of Directors of the Regional Transit Leadership Council.





10:45 AM

## TRANSITIONING FROM COAL TO RENEWABLE ENERGY

### MEETING ROOM MNQR

Wisconsin still gets over half of its electricity from coal power plants, but a big transition is underway. What tools are best for Wisconsin to make the transition from coal to renewable energy beneficial to electricity customers, utilities, workers, and communities? This panel will discuss the newly popular topic of “securitization” and other proposals that could accelerate this transition.



**TOM CONTENT** • Executive Director • **Citizens Utility Board**

Tom is Executive Director of the Citizens Utility Board of Wisconsin, the nation's first CUB formed in 1979 as a nonprofit consumer advocate for the residential and small business utility customers of Wisconsin. He leads a four-person staff that advocates for fair and affordable utility rates and reliable and safe utility service.

**TYLER HUEBNER** • Executive Director • **RENEW Wisconsin**

Tyler is Executive Director of RENEW Wisconsin where he leads and accelerates the transformation to Wisconsin's renewable energy future through advocacy, education, and collaboration. Prior to that, he worked for the State of Wisconsin's Division of Energy Services, the U.S. Department of Energy, and ICF International.



**ELIZABETH KATT REINDERS** • Beyond Coal Campaign • **Sierra Club**

Elizabeth is a Deputy Director for Sierra Club's national Beyond Coal Campaign, which aims to transition the nation's electricity sector from fossil fuels to clean energy. She has worked extensively on climate and the environment in advocacy, policy, research and communication for nearly two decades.



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Nissan Leaf



12:00 PM

KEYNOTE ADDRESS

MADISON BALLROOM



## KATHERINE HAMILTON

38 North Solutions

Katherine is Chair of 38 North Solutions, a public policy consultancy specializing in clean energy and innovation. In this role, Katherine has been listed on the #Solar100 board by kWh Analytics and received a Cleanie Award as Entrepreneur of the Year in 2018. You may know her as one of the voices on *The Energy Gang* podcast through Greentech Media. Katherine will offer a global perspective on clean energy before zeroing in on Wisconsin's role, opportunity, and techniques for advancing this industry.

# 12:45 PM

## RENEWABLE ENERGY AWARDS

### MADISON BALLROOM



#### PROJECT OF THE YEAR • BUTTER SOLAR

Butter Solar's 10 solar PV arrays span three states and total 22.9 megawatts (AC). Seven of the projects are located in western Wisconsin. Beyond the significant contribution to Wisconsin's solar growth, this may be the most creative solar project arrangement in the country. Owned and operated by BluEarth Renewables, Butter Solar's Wisconsin portfolio supplies low-cost power to the municipal utilities serving Arcadia, Argyle, Cashton, Cumberland, Elroy, Fennimore, and New Lisbon. The villages of La Farge, Viola, and Merrill are also Butter Solar participants. The same project also generates Renewable Energy Credits for Organic Valley and the City of Madison, helping them meet their ambitious renewable energy goals. The mastermind in this initiative was developer OneEnergy Renewables, which created the complex financing structure that allowed these entities to pool their resources into the project and receive value from it in return. OneEnergy also designed the arrays to blend in with the rural landscape while promoting wildlife and pollinator species. Wisconsin contractors such as Arch Electric contributed by providing expertise and high-quality workmanship.

#### BUSINESS OF THE YEAR • CARLSON ELECTRIC

A family-owned business since 1977, Hayward-based Carlson Electric has emerged as a leading solar energy contractor serving much of northern Wisconsin. In recent years, Carlson Electric has demonstrated considerable skill in financing and designing solar systems for nonprofit groups and civic entities. Indeed, Carlson's ability to access funds through the Solar for Good program, PACE financing, and Wisconsin Energy Innovation grants was a critical factor in helping such customers as Solon Springs School District, Spooner Ice Arena, Burnett County Humane Society, and Northland Lutheran High School invest in solar power in 2019. Carlson is well on its way to completing the state's most expansive solar initiative aimed at low- and moderate-income households. By this time next year, Carlson will have financed and installed 269 kilowatts of rooftop solar capacity directly serving 108 apartment dwellers in Sawyer County.





### **PIONEERS OF THE YEAR • MADISON GAS AND ELECTRIC, MIDDLETON-CROSS PLAINS AREA SCHOOL DISTRICT, CITY OF MIDDLETON**

This achievement involves many “firsts.” In 2017, Madison Gas and Electric (MGE) became the first electric utility in Wisconsin to launch a voluntary service that supplies electricity generated from a new solar power plant to retail customers. In 2019, MGE received approval for its first two contracts sleeved through its Renewable Energy Rider service. Ground has now been broken on a 5 MW project near Middleton’s airport that will supply solar power over a 30-year period to two pioneering MGE customers: Middleton-Cross Plains Area School District and the City of Middleton. When MGE’s array is energized later this year, these utility customers will become the first in Wisconsin to receive solar power under this novel structure.

### **CATALYSTS OF THE YEAR • SISTER ROSE JOCHMANN, SISTERS OF ST. FRANCIS OF THE HOLY CROSS**

In 2014, the Sisters of St. Francis of the Holy Cross, located in Green Bay, commissioned the installation of a 112-kW ground-mounted solar array to power the premises and serve as an outdoor classroom on clean energy. In 2019, working with the same local contractor (Eland Electric), the Sisters of St. Francis added a 98 kW array next to the existing one. The result is an inspiring and artfully arranged landscape that combines the ethic of planetary stewardship with the beauty of solar power. The leadership and guidance provided by Sister Rose Jochmann, chair of the community’s sustainability committee, was critical to the ultimate success of this initiative. In her own words: “In 2014, we had hoped to generate half of our electricity from solar but could afford only one-third. Our commitment to sustainability and care of the earth compelled us to look at our options again in 2018.”

### **CATALYSTS OF THE YEAR • BJORN “RED” THOMPSON AND JON MCCARTHY, ATTIC ANGEL COMMUNITY**

Located on Madison’s west side, Attic Angel Community is a senior living campus whose residents include many talented and dedicated volunteers. In 2019, Attic Angels contracted with Pewaukee-based SunVest Solar to install PV panels on two apartment wings, totaling 98 kW. That first taste of solar power opened the door to a larger effort initiated by two volunteers living in the Attic Angels Prairie Point community, Bjorn Thompson and Jon McCarthy, who served on the community’s sustainability committee. Working with SunVest, they designed an offering—effectively a solar group buy—which they presented to their Prairie Point neighbors in hopes that they would take part. Of the 123 households living in Prairie Point, 40 signed up to host solar panels on their roofs, resulting in a total of 133 kW. Combined with the 135 kW array installed in 2019 on the roof of Attic Angels’ memory care unit, the campus now hosts 366 kW of rooftop solar capacity, the largest serving a senior housing community in Wisconsin.

# 1:30 PM

## ADVANCING DISTRIBUTED GENERATION

### HALL HI

Net metering, interconnection, permitting and inspections are the foundational bricks upon which our distributed generation marketplace was built. How can we improve and streamline these policies, remove and reduce barriers, and ensure an equal opportunity for distributed generation to help achieve a clean energy future?

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ADAM GUSSE • Vice President • **SunVest Solar, Inc.**

Adam has managed and designed over 750 solar electric, solar hot water, and wind projects in Wisconsin and the upper Midwest since entering the renewable energy industry in 2008. His skills help commercial, residential, utility, and consulting customers from project conception to a fully functional renewable energy system.

TYLER HUEBNER • Executive Director • **RENEW Wisconsin**

Tyler is Executive Director of RENEW Wisconsin where he leads and accelerates the transformation to Wisconsin's renewable energy future through advocacy, education, and collaboration. Prior to that, he worked for the State of Wisconsin's Division of Energy Services, the U.S. Department of Energy, and ICF International.



NICK MATTHES • Solar Project Manager • **MREA**

Nick is the Solar Project Manager for the Midwest Renewable Energy Association. He has worked in a variety of capacities throughout the years, from multi-megawatt systems across the Midwest to small off-grid systems for remote and tribal communities, and is currently working on curriculum development and streamlining PV system inspections.

STEVEN NIELAND • Director of Energy • **Faith Technologies**

Steve is Director of Energy for Faith Technologies, responsible for the vision, development, growth and execution of Faith's energy strategy. During his 30 year career, he has led multiple efforts in product development, automation, operational transformation, sustainability, lean, quality system development, and renewable energy across a variety of industries.



# 1:30 PM

## EDUCATING WI'S RENEWABLE WORKFORCE

### HALL J

To achieve the goals of the clean energy transition, we are going to need more talented individuals joining a larger, more robust clean energy workforce. How can Wisconsin's educational institutions and training programs develop the next generation of clean energy workers, and how are they leading by example to show these students the future today?



JENNY HEINZEN • Training Director • **MREA**

Jenny is the Training Director at the Midwest Renewable Energy Association (MREA) where she writes curriculum, schedules course offerings, facilitates online training, and teaches. The MREA is an education provider of the NABCEP PV Associate and has many courses approved for continuing education with NABCEP and state licensing agencies in the Midwest, which requires continuous attention to content and delivery.

AMY SEEBOTH-WILSON • Sustainability Coordinator • **UW-Platteville**

Prior to joining UW-Platteville, Amy worked as a planning manager for the five-county Southwestern Wisconsin Regional Planning Commission (SWWRPC), where she led a nationally-recognized sustainability initiative, developed bicycle and pedestrian plans, and researched market opportunities for local food production.



DR. KENNETH WALZ • Faculty • **Madison College**

Ken teaches science and engineering at Madison College, where he serves as Director for the Center for Renewable Energy Advanced Technological Education. He also serves as Secretary for the Wisconsin Distributed Resources Collaborative and as an advisor for the Wisconsin K-12 Energy Education Program.

SARA WINDJUE • Energy Education Outreach Specialist • **KEEP**

Sara's work at the WI K-12 Energy Education Program (KEEP) includes supporting Technology and Engineering Educators, developing KEEP's Building Science program and online renewable energy graduate course, assisting schools who are interested in installing renewable energy systems, working with teachers to integrate energy education into STEM and CTE offerings, and encouraging sustainable behaviors at the K-12 level.



# 1:30 PM

## LARGE SCALE WIND AND SOLAR

### MEETING ROOM KLOP

Utility scale solar and wind development is growing in Wisconsin, and new projects being proposed will be needed to achieve a clean energy future. What obstacles do we need to overcome to get these projects built? How can we maximize the benefit to Wisconsin's economy and people?

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**BOB BISHOP • Farmer • C.R. Bishop & Sons, Inc.**

Bob and his family are the owners of C.R. Bishop & Sons, Inc. a family farm in Cobb, Wisconsin. The Bishops are leasing hundreds of acres of agricultural land for Invenergy's 300 MW Badger Hollow Solar Farm in Iowa County. They have years of farm experience adapting and reinventing after facing crashing hog prices in the 1990s and falling milk prices in 2018.



**VIPUL DEVLUK • Senior Origination Manager • EDP Renewables**

Vipul has led negotiations for the purchase and contracting of \$3B+ of capital equipment (wind turbines, solar panels, and batteries). He is responsible for securing PPA and Build-Transfer Agreements for EDP development assets in the MISO, SPP, ERCOT, and SERC power markets. He has negotiated 380MW of PPAs to date.



**LINCOLN LANDE • Sr. Dir. of Business Development • EDF Renewables**

Lincoln serves as EDF Renewables Distributed Solutions' Senior Director of Business Development, where he is responsible for project origination. An attorney by trade, Lincoln served as a Project Development Attorney and later Director of Business Development at groSolar, a company acquired by EDF Renewables in 2016.



**MARIAH LYNNE • President/Owner • Good Steward Consulting**

Mariah is President/Owner of Good Steward Consulting in Albert Lea, MN. She and her team specialize in rural communication and support cultivation for utility-scale renewable energy developments in the Midwest. She passionately advocates for rural developments and their economic benefit to rural/agricultural communities.



**DON PETERSON • Vice President - Energy Technology • MGE**

Don built the first utility scale wind project in Wisconsin, the Rosiere Wind Farm in Kewaunee Co. over 20 years ago. Recently, he worked on MGE's Shared Solar program, Renewable Energy Rider, Saratoga Wind Project, and is pursuing additional wind and solar opportunities for MGE whose corporate goal is to achieve net zero carbon electricity by 2050.





# 1:30 PM

## COMMUNITY-LED CLEAN ENERGY

### MEETING ROOM MNQR

How can residents, nonprofits, and local government officials work together to advance clean energy in their communities? Hear from advocates and leaders who are moving Wisconsin toward 100% clean energy.

MODERATOR



HEATHER ALLEN • Program Director • **RENEW Wisconsin**

Heather is RENEW's Program Director, where she oversees programs and initiatives to expand solar and wind power all across Wisconsin. She also builds coalitions and partnerships to grow clean energy. She has previous experience working for the City of Madison, Clean Lakes Alliance, and Natural Resources Defense Council.

BILL BAILEY • President • **Cheq Bay Renewables**

Bill is president of the 100% volunteer nonprofit, Cheq Bay Renewables, whose current initiatives include an annual solar tour, solar group buy, electric vehicle education and implementation, and working with area municipalities, school districts, businesses and tribes to make solar PV more accessible. Cheq Bay was recognized by RENEW as a Renewable Energy Champion for the 2018 Solar Group Buy that was the largest in Wisconsin's history.



MEGAN LEVY • Local Energy Programs Manager • **WI OEI**

Megan has spent more than a decade working to advance building energy efficiency, both with the low-income weatherization program and with the Wisconsin State Energy Office (now the Wisconsin Office of Energy Innovation). She is currently the Energy Emergency Assurance Coordinator for the state and also oversees the Energy Independent Communities program.



SUPREME MOORE OMOKUNDE • Supervisor • **Milwaukee County**

Supervisor Supreme Moore Omokunde was first elected in 2015 to represent the 10th District. In 2019, he authored a resolution to create the Milwaukee City-County Joint Taskforce on Climate and Economic Equity. The taskforce brings together elected officials and community leaders to make recommendations for achieving net zero greenhouse gas emissions by 2050 or sooner, while mitigating racial and income inequality.





## Our Mission

To educate, inspire, and empower current and future generations to choose a clean, sustainable form of energy.

## Our Vision

Universal access to affordable renewable energy.

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# 2:30 PM

## 2020 VISION: HOW DO WE GET TO 100%?

### MADISON BALLROOM

It's easy to talk about the transition to 100% clean energy, but how can Wisconsin ACTUALLY make this happen? Hear from visionary individuals and company leaders who are betting on this transition and the ideas they have to get there.

MODERATOR



HEATHER ALLEN • Program Director • **RENEW Wisconsin**

Heather is RENEW's Program Director, where she oversees programs and initiatives to expand solar and wind power all across Wisconsin. She also builds coalitions and partnerships to grow clean energy. She has previous experience working for the City of Madison, Clean Lakes Alliance, and Natural Resources Defense Council.

SHREE KALLURI • Founder & CEO • **Zerology**

Shree is a successful technology entrepreneur who has a passion for seeing world problems and creating business solutions to drive change. In April 2019, he formed Zerology, an environmentally friendly transportation ecosystem.

Zerology leverages zero-emissions electric vehicles through an innovative technology infrastructure to provide communities with easy, sustainable, and affordable mobility services.



RUSSELL S. MINICK • CMO • **Generac Power Systems**

Russell began serving as Chief Marketing Officer for Generac in August 2016. Prior to this appointment, he served as Executive Vice President, Residential Products and Executive Vice President, North America. In 2019, Generac announced new business lines for energy storage and home energy management products in a significant expansion of its home power business.



NICHOL TOOMIRE • Director of Resource Planning • **Alliant Energy**

As Director of Resource Planning, Energy Markets and Fuel Supply, Nichol is responsible for directing the energy market trading, energy risk management, fossil fuel procurement and energy market operation activities of Alliant Energy. In 2019, Alliant Energy announced it would be seeking 1,000 megawatts of new solar power projects by 2023.



## 2019 MILESTONES AND ACHIEVEMENTS

### JANUARY

RENEW hosts our 8th annual Renewable Energy Summit, titled "Scaling Up for the Job Ahead," at Monona Terrace in Madison. The event brings together more than 400 renewable energy industry experts, utility leaders, government officials, students and advocates with welcoming remarks by the newly elected Governor Tony Evers.

### FEBRUARY

RENEW organizes and holds its first Solar for Good ribbon-cutting of the year at the James Peterson Veterans Village in Racine. The 19.8 kW array, installed by Arch Electric, delivers solar power to 15 tiny homes and a community center located on the premises.

Madison Gas & Electric's 33-turbine Saratoga Wind project in northeast Iowa begins commercial operation. The 66 MW project will account for about 7% of MGE's power mix.

### MARCH

A Richland County committee issues a permit that would allow Kansas-based Savion Energy to construct a 500-acre solar farm near Lone Rock. The output from this 49.9 MW solar farm should offset the consumption from 13,000 typical households in Wisconsin.

The Public Service Commission approves the Badger Hollow and Two Creeks solar farms, with a combined capacity of 450 MW. The PSC also approves an application from Wisconsin Public Service and MGE to acquire the entire 150 MW Two Creeks plant in Manitowoc County and a 150 MW share of the 300 MW Badger Hollow plant in Iowa County.

### MAY

Two independent power producers - NextEra Energy and Ranger Power - submit applications to construct two solar farms in eastern Wisconsin. The 100 MW Point Beach Solar farm would adjoin NextEra's Two Creeks project, while Ranger's 149 MW Badger State Solar Farm would be located in Jefferson County. The output from Point Beach will supply WPPI Energy, while Badger State will generate electricity under contract to Dairyland Power Cooperative.

### JULY

After building a coalition of organizations, businesses, and elected officials to fight Wisconsin Electric Power's proposed surcharge on customer-owned solar PV systems, RENEW and the utility enter into a settlement agreement that eliminates the proposal from WEPCO's pending rate filing before the PSC.

Grant County approves a 21 to 24-turbine wind project just west of the Montfort Wind Farm. Developed by Minnesota-based Project Resources Corporation, Red Barn is the first project to be granted a permit by a local government under Wisconsin's wind siting rule (PSC 128).

The 1 MW OreDock solar project in Ashland comes online. It is the third and final array dedicated to Xcel's shared solar service in Wisconsin.

## AUGUST

In the shadow of Organic Valley's wind turbines in Cashton, Butter Solar project participants gather to cut the ribbon at one of seven arrays developed by OneEnergy Renewables to supply electricity to ten western Wisconsin municipal utilities and provide renewable energy credits to Organic Valley and the City of Madison. The arrays, owned by BluEarth Renewables, total 17.2 MWAC. Butter Solar represents the largest increment of renewable generation to be energized in Wisconsin in 2019.

Sawyer County Housing Authority dedicates rooftop arrays supplying electricity to 52 low- and moderate-income households across the county. A Solar for Good grant helped underwrite the 153 kW initiative, which involved six different arrays designed and installed by Hayward-based Carlson Electric.

With a proposed wind farm in Green County under consideration, RENEW and Clean Wisconsin organize an educational forum in Monroe focusing on wind power, sound, health impacts, and Wisconsin's wind siting rule.

## SEPTEMBER

RENEW organizes and holds our 7th annual Ride with RENEW bicycle ride fundraiser in the Fox Cities. The ride attracts over 40 riders and raises \$30,000.

Green County issues a Conditional Use Permit authorizing construction of the 24-turbine Sugar River Wind Farm proposed by EDF Renewables.

RENEW and Wisconsin Clean Cities team up to co-host "The Future of Transportation Day" at the State Capitol. The event engages visitors to see how vehicle technology is shaping the transportation landscape, and provides opportunities for test-driving the electric, hybrid and alternative fuel vehicles displayed outside.

## OCTOBER

MGE breaks ground on a 5 MW solar array next to Middleton's Morey Field. Approved by the PSC over the summer, the project will greatly expand the utility's shared solar service while dedicating a portion of project capacity exclusively to two Wisconsin customers.

## DECEMBER

The PSC approves the 100 MW Point Beach Solar farm, bringing the total of agency-approved solar generating capacity in 2019 to 550 MW.



## 2019 HONOR ROLL

### NOTABLE CUSTOMER-SITED SOLAR PV INSTALLATIONS

CATEGORY	SYSTEM HOST	COUNTY	CAPACITY (KW)	CONTRACTOR
Technical college	Madison College	Dane	125	H&H Energy
K-12 public school	Merton School District	Waukesha	389	SunVest Solar
Cold storage warehouse	Central Storage and Warehouse	Racine	654	SunPeak
Hospitality	Holiday Inn Madison	Dane	75	SunPeak
Public libraries	City of Milwaukee	Milwaukee	252	Eagle Point Solar
Healthcare	Aspirus (three locations)	Marathon, Langlade	340	Northwind Solar
Local govt. • city	City of Whitefish Bay	Milwaukee	200	Arch Electric
Local govt. • city	City of Wauwatosa	Milwaukee	350	Faith Technologies
Local govt. • city	City of Madison	Dane	120	City of Madison
Local govt. • county	Greater Bayfield WWTP	Bayfield	124	Eagle Point
Advanced grid	Gundersen Health Systems -Tomah	Monroe	258	Convergence Energy
Corporate HQ	Promega	Dane	729	H&H Energy
Corporate HQ	SECURA	Outagamie	600	Faith Technologies
Faith community	First Unitarian Society	Dane	83	Full Spectrum Solar
Faith community	Sisters of St. Francis	Brown	210 (98 in 2019)	Eland Electric
Manufacturer	Ampco Pumps	Milwaukee	389	Arch Electric
Apparel - shoes	Weyco Group	Milwaukee	372	SunVest Solar
Retirement community	Attic Angels	Dane	366 (268 in 2019)	SunVest Solar
PACE Financed	Spooner Civic Center	Barron	404	Carlson Electric
Agriculture	Hempsational Fields	Sauk	304	Midwest Solar Power
Agriculture	Connoils	Waukesha	147	Convergence Energy



# WISCONSIN SOLAR GROUP BUYS

PROGRAM	ADMINISTRATOR	PARTICIPANTS	AGGREGATE CAPACITY (KW)	CONTRACTOR
Attic Angels Prairie Point Initiative	Attic Angels Community	40	133	SunVest Solar
Chequamegon Bay Solar Group Buy	Cheq Bay Renewables	75	508	Next Energy Solution
Grow Solar Milwaukee	Milwaukee ECO, MREA	48	256	Arch Electric
Heart of the North Solar Group Buy	Self-administered	35	376	Next Energy Solution
MadiSUN	RENEW Wisconsin, City of Madison	38	198	Full Spectrum Solar, Midwest Solar Power
Solar Central Wisconsin	MREA, Mid-State Technical College	54	377	Northwind Solar
Solar Southeastern Wisconsin	Great Lakes Community Conservation Corp.	20	135	Arch Electric
	TOTAL	310	1,983	



# 2019 HONOR ROLL

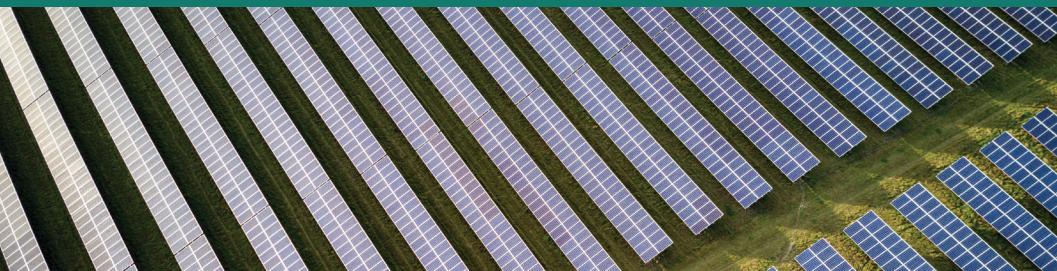
## WISCONSIN SOLAR FARMS ENERGIZED IN 2019

	INSTALLATION OWNER OR HOST	COUNTY	KW	UTILITY / REC CUSTOMER
1	BluEarth Renewables	Trempealeau	7,450 DC 5,000 AC	UMMEG-Arcadia Municipal / Organic Valley
2	BluEarth Renewables	Grant	4,110 DC 3,000 AC	UMMEG-Fennimore Utilities / City of Madison
3	BluEarth Renewables	Juneau	3,540 DC 2,500 AC	UMMEG-New Lisbon Utilities / City of Madison
4	BluEarth Renewables	Barron	3,390 DC 2,500 AC	UMMEG-Cumberland Municipal / City of Madison
5	BluEarth Renewables	Monroe	2,560 DC 2,000 AC	UMMEG-Cashton Municipal / City of Madison
6	BluEarth Renewables	Juneau	2,100 DC 1,500 AC	UMMEG-Elroy Utilities / City of Madison
7	BluEarth Renewables	Lafayette	1,100 DC 800 AC	UMMEG-Argyle Municipal / City of Madison
8	OneEnergy (Ore Dock)	Ashland	1,000 DC 700 AC	Xcel-NSPW / Solar*Connect

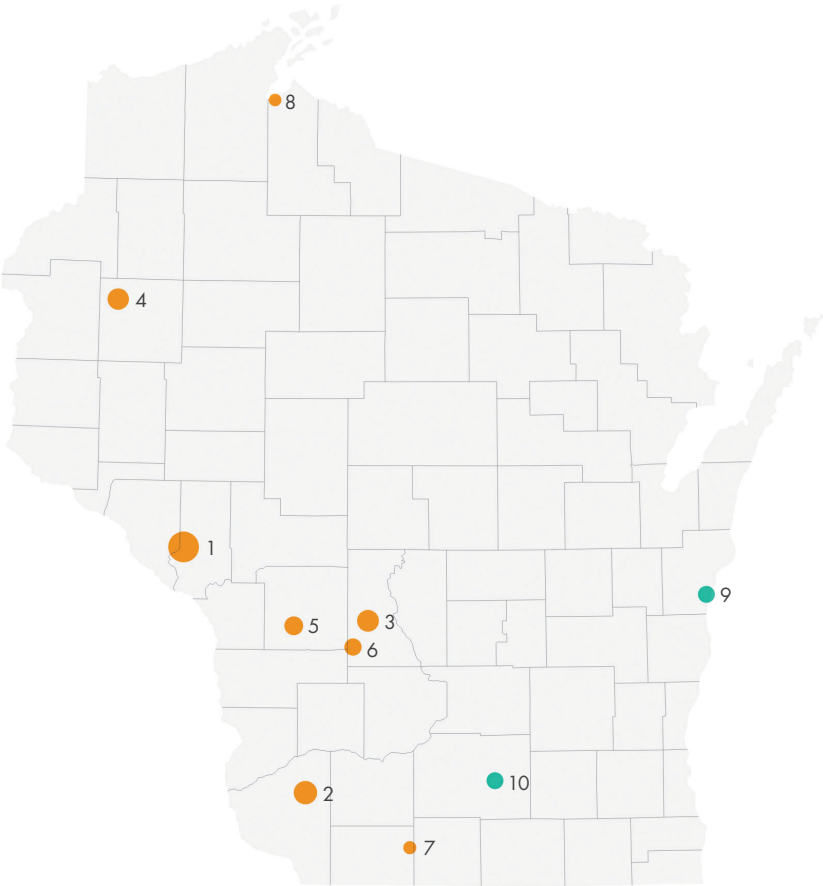
## RENEWABLE NATURAL GAS INJECTION FACILITIES

	INSTALLATION	OWNER	LOCATION	PRINCIPAL FEEDSTOCKS	PROJECT PARTNERS AND SUPPLIERS
9	Calumet Renewable Natural Gas Project	DTE Biomass Energy	Newton (Manitowoc)	Dairy manure	Grotegut Dairy Maple Leaf Dairy Dairy Dreams Pagels Ponderosa Dairy
10	Yahara Landfill	Dane County	Madison (Dane)	Landfill waste	BIOFerm





**SOLAR FARM AND RNG PROJECT LOCATIONS**



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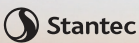
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A photograph of a family—a man, a woman, and a young child—laughing and playing together outdoors in a grassy area with trees in the background. The Johnson & Johnson logo is overlaid on the left side of the image.

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A blue banner with a stylized sunburst graphic behind the company name. The text "SUNVEST" is in large, bold, yellow and white letters, and "SOLAR INC" is in smaller, white, all-caps letters below it.

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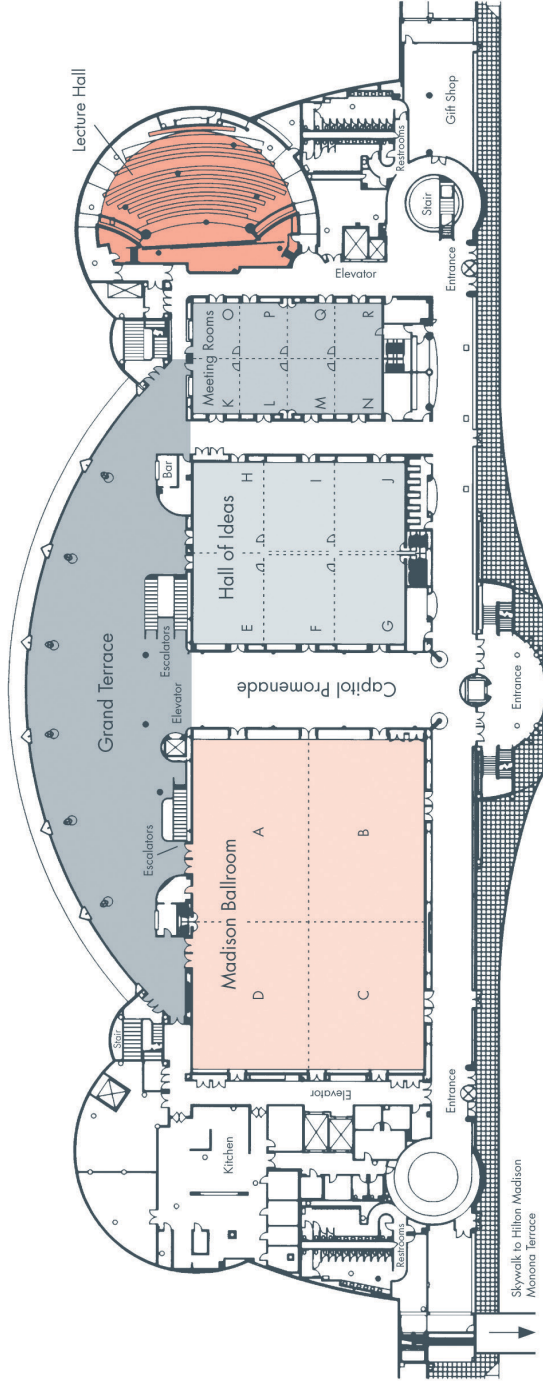
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