



Genoa Site Update  
Fall 2016

# Power

for Generations

## LACBWR License Transfer Complete

The Nuclear Regulatory Commission (NRC) approved transfer of the license for Dairyland's La Crosse Boiling Water Reactor (LACBWR) shut-down nuclear facility to La CrosseSolutions LLC, a subsidiary of decommissioning and waste disposal specialist EnergySolutions LLC. The official transfer of operation control to La CrosseSolutions, LLC, was effective June 1, 2016.

Under the licensed stewardship agreement, La CrosseSolutions will temporarily hold the license and assume responsibility for the decommissioning of the site. The license will revert back to Dairyland following completion of decommissioning activities.

Dairyland will remain the owner of the site and retain title to and responsibility for the spent nuclear fuel, which is stored in dry casks at an Independent Spent Fuel Storage Installation (ISFSI) at the Genoa Site.

Dairyland submitted an application to the NRC requesting transfer of the storage and decommissioning license

to La CrosseSolutions in October 2015. Long-term plans for the LACBWR site are not yet defined.

For more information about EnergySolutions, visit [www.energysolutions.com](http://www.energysolutions.com).

### Completed Nuclear Decommissioning Projects

Dairyland previously worked with EnergySolutions to facilitate the removal and disposal of LACBWR's Reactor Pressure Vessel and other low-level, non-fuel waste to a disposal site in South Carolina in 2007. Dairyland also safely and efficiently transferred spent nuclear fuel from LACBWR to the ISFSI on the south end of the Genoa Site in 2012.

### A Short History of LACBWR

LACBWR was built in 1967 as part of a project with the Atomic Energy Commission to demonstrate the peacetime use of nuclear power. Dairyland built the turbine, generator and plant auxiliary systems. In 1973, the reactor and fuel were transferred to Dairyland. LACBWR ceased operations for economic reasons in April 1987. ■■■



LACBWR construction on the Genoa Site; reactor building under construction. Both photos circa 1967.



## Safety is Everything

The safety of employees and the general public as Dairyland's number one priority. Dairyland's safety motto is *Zero by Choice, Everyone Home Safe Every Day*, referring to the goal of zero fatalities, zero disabling injuries and zero incidents at work and at home.

Building a stronger safety culture, with an emphasis on open communication, is an ongoing commitment throughout the cooperative organization. Safety programs and meetings, Continuous Improvement Team campaigns, employee safety communications and an open-door policy help shape a positive safety culture. ■■■



# Meet our CEO

**Barbara Nick** joined Dairyland as President and CEO in December 2014, shortly before longtime President and CEO Bill Berg's retirement.

Barb previously held the position of President of Michigan Gas Utilities Corporation and Minnesota Energy Resources Corporation within the Integrys Energy Group. She initially joined Wisconsin Public Service

Corporation in 1981, advancing to Senior Vice President of Energy Delivery and Customer Service and President of Upper Peninsula Power Company (UPPCO).

Barb has completed Harvard Business School's Advanced Management Program, and earned a Bachelor's degree in Communications and

Business from UW-Green Bay in 1983. An author of both business and children's literature, Barb's published work includes *Lenses of Leadership*, *A Call to Action*, and *Bella the Dragon*. ■■■



## Operational Excellence

The safe, reliable and sustainable supply of electricity to our members is rooted in employee and operational excellence. Dairyland has thrived for 75 years because of knowledgeable and dedicated employees.

Thanks in large part to employee technical expertise, Dairyland's Genoa #3 Station and John P. Madgett Station (located in Alma, Wis.) have reached "world class status" for the third straight year for minimal

forced outage rates due to boiler tube failures. The reliability and efficiency of Dairyland facilities is a tribute to highly skilled power plant staff. ■■■

## Resource Diversification

Renewable energy has been a growing part of Dairyland's energy resource portfolio for many years. Moving forward, Resource Diversification is a key area of focus within Dairyland's integrated strategic and business plan.

Dairyland owns or purchases hydro, wind, solar and landfill gas energy sources and was excited to announce significant wind and solar expansion plans earlier in 2016.

Dairyland's existing coal facilities—complete with \$325 million in environmental control technology—are still essential to reliability.

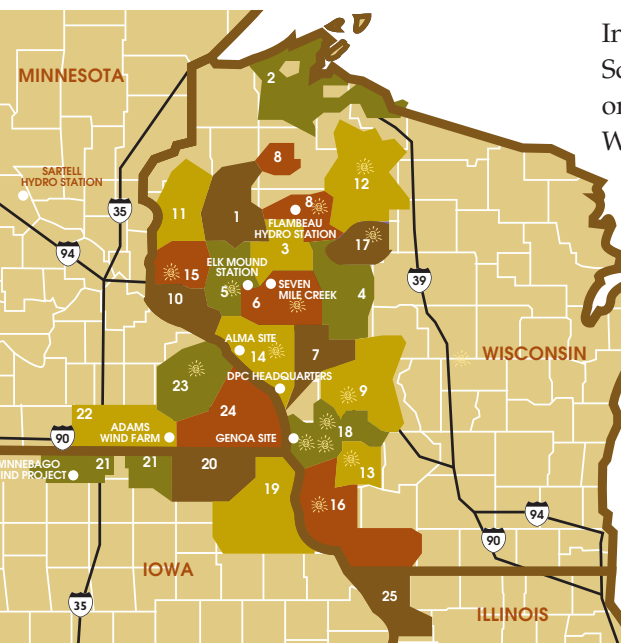
Construction is in progress on 12 projects for 15 MW of utility-scale solar energy in western Wisconsin. These 12 projects, announced in spring 2016, demonstrate Dairyland's leadership in renewables by surpassing solar resources in the state.

In addition, Dairyland's "Solar for Schools" initiative was announced on Earth Day 2016. Three Western Wisconsin public schools (De Soto Area Middle & High School, Alma Area School and Cochrane-Fountain City School) will have on-site solar installations. The solar renewable energy will help power the schools

and each school will have access to online solar array monitoring for teaching purposes.

Dairyland also purchases energy from major solar installations in Westby, Wis., Oronoco, Minn., and Galena, Ill. Additionally, there are over 850 consumer-owned distributed generation solar installations located throughout Dairyland's member-cooperative service areas.

In June, President and CEO Barbara Nick announced a power purchase agreement with EDP Renewables for 98 MW of wind energy, which will be located near Platteville, Wis. The Quilt Block Wind Farm is expected to be operational in late 2017. ■■■



Vernon Electric Cooperative's Solar Site (Westby, Wis.)





# Environmental Investments

Major emissions control equipment projects at Dairyland's Genoa (and Alma) coal-fired power plants continue to benefit regional air quality.

Dairyland has invested approximately \$325 million for air emissions control work at both the Genoa (pictured) and Alma facilities since 2007. The

result of the new air emission control equipment will be a significant reduction in emissions of sulfur dioxide, nitrogen oxides, mercury and particulate matter.

Installation of "baghouses" to remove particulate matter from the exhaust gas have

resulted in major reductions in particulate matter. The baghouses are in addition to the existing electrostatic precipitators, which capture particulate matter that is recycled as an additive to concrete.

A Semi-dry Flue Gas Desulfurization system or "scrubber" is in operation at the Genoa plant to remove sulfur dioxide and other acid gases.

A Selective Non-Catalytic Reduction "SNCR" system and an Activated Carbon Injection "ACI" system are also in place at Genoa. These technologies reduce emissions of nitrogen oxides and mercury. ■■■



## Celebrating 75 Years

For decades, the absence of electricity was the single most important distinction between urban and rural life in the United States. In 1935, President Franklin Roosevelt established the Rural Electrification Administration (REA) to help bring electricity to rural America.

Just days after the bombing at Pearl Harbor in December 1941, Tri-State and Wisconsin Power Cooperative merge to create Dairyland Power Cooperative. Since the cooperative's formation 75 years ago, Dairyland has evolved to become a \$1.5 billion generation and transmission cooperative with

550 employees, 3,195 miles of transmission lines and nearly 300 substations.

Dairyland is proud of its history as a pioneer in rural electrification. Specifically serving rural population centers and countryside, Dairyland continues to power communities and improve quality of life for residents by delivering safe, reliable, sustainable and competitively-priced electricity.



### Timeline tidbits

- Dairyland's 350 MW Genoa Station #3 came online in 1969. Decades later, this safe, efficient and reliable generating resource is still helping to power communities.
- In 1973, Dairyland purchased the La Crosse Area Boiling Water Reactor (LACBWR) for \$1 from the federal government. Today, final decommissioning of the shut-down nuclear facility continues. The used fuel is contained in dry cask storage.
- Dairyland's Environmental Dept. formed in 1971. Today, Dairyland has invested approximately \$325 million in air emissions controls at its coal-fired facilities in Genoa and Alma. ■■■

### Vision, Mission & Values

**Vision:** To exceed member expectations as a safe, sustainable, premier power cooperative.

**Mission:** We will power our communities and empower cooperative members to improve the quality of their lives.

**Values:** Our members are the reason for our existence. We will provide our members with value in the form of safe, reliable, sustainable and competitively-priced electricity. We will build strong relationships with our member cooperatives, employees and all stakeholders. We will live the cooperative principles and hold ourselves true to our core values of accountability, integrity, innovation and commitment to community.

## Who we are

1941 **75** 2016



Dairyland, a Touchstone Energy Cooperative, was formed in December 1941. Headquartered in La Crosse, Wis., Dairyland provides the wholesale electrical requirements for 25 distribution cooperatives and 17 municipal utilities. These cooperatives and municipals, in turn, supply the energy needs of more than a half-million people in the four-state service area.

Today, the cooperative's generating resources include coal, natural gas, hydro, wind, solar and biogas. Dairyland delivers electricity via 3,195 miles of transmission lines and 292 substations located throughout the system's 44,500 square mile service area. Visit [www.DairylandPower.com](http://www.DairylandPower.com).

### Genoa Site Management

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### [www.DairylandPower.com](http://www.DairylandPower.com)

Turn to Dairyland's website for more information on Dairyland's generating resources, career opportunities, community involvement, cooperative history and more.


Follow Dairyland Power  
on Facebook and Twitter.



## Postal Patron

## Commitment to Community

The seven Cooperative Principles help guide Dairyland's business decisions and practices. Through the coal ash recycling program, Peregrine Falcon Restoration Program, environmental investments, volunteerism and donations benefitting community projects and organizations, Dairyland puts the cooperative principle, *Concern for Community*, into action.

**Did you know?** Dairyland recycles the majority of the ash created by the coal combustion process at G-3. The ash is reutilized as an additive in the manufacturing of concrete and also in road resurfacing materials. 

Dairyland Senior Environmental Biologist Brad Foss assists Amy Ries (Raptor Resource Project) during banding of the chicks.

