Distributed Generation

Distributed generation (DG) includes standby generation, new technologies such as fuel cells and micro-turbines, as well as renewable energy sources such as wind, solar, hydro, and bio-mass. DG provides members with greater reliability, improved environmental performance, and economic savings. To be a qualifying facility (QF), agreements and approved interconnection of the DG with the electric grid (Barron Electric's distribution lines) are required for the safety of the member and the cooperative.

Standby Generation - Discount Rate

Power to a home or business can be vulnerable to power outages during unpredictable weather or extreme weather conditions. Standby power generators offer the security of uninterrupted electricity. With an automatic standby generator on Barron Electric's Load Management Program, members receive a discounted kWh rate whether the account is a residence or small or large business, new or existing.*

A Standby Generation Loan Program exists for the purchase and installation of a standby generator. Maximum funds allowed: $50,000 per installation per member; 6% interest rate per year on unpaid balance, and loan payment will be added to monthly electric bill. Loans greater than $10,000 will require an irrevocable letter of credit.

Connectivity Requirements for Standby Generation

- Signed agreement
- Equipment must meet all stated Federal code requirements
- Install an automatic transfer switch device (double pole, double-throw)
- Complete transfer of load between systems
- Controlled by the Load Management Program
- Maintain a 24-hour fuel supply
- Subject to approval and yearly inspection

A penalty is assessed for failure to interrupt. Members on this rate are not eligible for incentives or capital credits.

* Discounted rate subject to change. New EPA rulings may affect program.

Barron Electric is committed to equitable rates for all consumer classes, optimal efficiency of facilities and resources, and energy conservation.

Renewable Co-generation Net Metering through Barron Electric

Energy re-purchased by Barron Electric with 20 kW or less of installed capacity shall be metered at a single meter point. Typical examples would be wind, solar or other renewable resources of distributed generation. The co-op will credit the member the current rate per kWh. The co-op will bill the member a $32.70 per month fixed charge. *(subject to change)*

Connectivity Requirements for Renewable Co-generation

- Measured demand in 15-minute intervals of 20 kW or less capacity. Systems larger than 20 kW capacity must be approved by Dairyland Power. Any Distributed Generation systems owned by the same individual, within a 30-mile radius, will be considered one system and the generation capacity will be aggregated.
- Signed Distributed Generation Application Form
- Signed Interconnection Agreement
- One meter socket required
- $300,000 liability insurance coverage
- Install an IEEE approved interconnect safety switch to monitor the phases and prevent the power from back-feeding onto the grid
- Provide a lockable load-break disconnect switch at the meter site
- Provide an energy conversion system to convert the DC battery current to 120-volt AC house current
- Inspection by State Inspector and accompanied by a Barron Electric employee at member's expense
- The Cooperative shall carry over any excess kilowatt-hour credits earned during a billing period and apply those credits to subsequent billing periods to offset any member-generation consumption in those billing periods until all credits are used or cleared out at the end of the year, after December bills have been calculated.
- Subject to inspection

Members on this rate are not eligible for off-peak programs or capital credits.

Contractors Installing Solar or Wind Energy Systems

Please visit the Midwest Renewable Energy Association's website for a listing of contractors installing renewable energy systems. Their site is **www.the-mrea.org**, click on resources and links and business directory. The site includes a list of homes throughout Wisconsin that have installed renewable energy systems. Tours can be scheduled of these homes. Conferences and workshops are also listed on the site.

Sources for Renewable Energy

American Wind Energy Association ..... www.awea.org
Dairyland Power Cooperative ..... www.dairynet.com
Energy Information Administration ..... www.eia.doe.gov
Wind Powering America ..... www.eere.energy.gov
National Renewable Energy Lab ..... www.nrel.gov
Interstate Renewable Energy Council ..... www.millionsolarroofs.org
Windustry ..... www.windustry.org
Renewable Energy World ..... www.renewableenergyworld.com
Environmental Protection Agency ..... www.epa.gov/cleanenergy
Wind Estimator ..... www.windknowledge.com
WI Consortium on Biobased Industry ..... www.bioeconomy.wi.gov
State of WI – Dept. of Administration ..... www.doa.state.wi.us

State Programs

State Incentives for Renewables and Efficiency ..... www.dsireusa.org

Federal Programs

USDA Value Added Producer Grant Program:
www.rurdev.usda.gov/BCP_VAPG.html

Rural Economic Development Loan and Grant Program:
www.rurdev.usda.gov/BCP_redlg.html

Call Barron Electric's Member Services at 800-322-1008 for more information

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Distributed Generation Program

Barron Electric Cooperative is committed to improving the quality of the environment and contributing to the overall economic and social health of its service territory. The cooperative is dedicated to continued stewardship, as well as investing in technology that protects the environment, adheres to sound management practices, and ensures the health and safety of its employees and members.

BARRON Electric
COOPERATIVE – BARRON, WISCONSIN
A Touchstone Energy® Cooperative

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Weekday Hours: 7:45 a.m. to 4:30 p.m.