



NRGSystems™

Building Fact Sheet

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About Our Facilities

At NRG Systems, how we work is as important to us as what we do. Our long-standing commitment to lean manufacturing has increased our flexibility and productivity, reduced costs and waste, and enabled us to maintain tight controls on product quality. Likewise, our manufacturing facility prioritizes efficiency and sustainability. When our facility was built in 2004, it was one of only five industrial facilities in the world to receive LEED Gold certification from the U.S. Green Building Council. Since then, we have self-certified to the ISO 14001:2015 Environmental Standard to further enhance our environmental performance.



Energy Efficiency and Renewable Energy

- 199.1 kW solar photovoltaic installation
- Solar hot water system with rooftop collectors
- Wood pellet heating system with 98% efficient backup propane boilers
- Radiant floor cooling systems; direct well water cooling in 60 Riggs building
- Demand-controlled ventilation with CO₂ monitoring in open office areas
- Automatic daylight harvesting controls and occupancy sensors
- High efficiency windows and skylights; south-facing windows to maximize daylight
- Super-insulated and airtight structure
- ENERGY STAR-rated computers and appliances
- White reflective roofs on warehouse to reduce heat gain

Indoor Air Quality

- Exceeds ASHRAE air quality standards
- Natural ventilation via operable windows
- Low or no volatile organic compound-emitting stains, paints, adhesives, and sealants

Sustainable Planning and Design

- Native plant landscaping to minimize irrigation; effective stormwater management
- Reduced building footprint to minimize disruption to natural systems
- Alternative transportation facilities: bike shelter, EV charging station, bus service
- Full cutoff outdoor lighting with motion detectors to reduce light pollution
- Dual flush toilets and water-saving devices

Earth and Human-Friendly Materials

- Furniture made in Vermont from lumber cleared both on-site and through sustainably harvested practices with the Forest Stewardship Council
- Concrete flooring to minimize maintenance, dust, and allergens
- Formaldehyde-free composite wood
- Recycled steel structure constructed from cars, cans, and appliances
- Recycled content floor tiles in restrooms
- No chlorofluorocarbons



Key Facts

	Building #1 (110 Riggs Rd.)	Building #2 (60 Riggs Rd.)
Completion date	2004	2008
Size	46,000 f ²	31,000 f ²
Cost	\$7.8 million	\$9.1 million
Cost per square foot	\$168	\$294
Building footprint	30,595 f ²	21,000 f ²
LEED rating ¹	Gold	Gold
LEED and renewable energy features cost	\$13.81 per f ² (8.21% of total cost)	\$17.70 per f ² (6% of total cost)

Environmental Stats

	Building #1 (110 Riggs Rd.)	Building #2 (60 Riggs Rd.)
Energy use	Uses ¼ the energy of a similar building built to 2004 codes	Uses ½ the energy of a similar building built to current codes
Renewable energy production	Upon completion in 2004, about ½ the electricity was renewable (90,000 kWh per year supplied by solar photovoltaics and 6,000 kWh supplied by a 10 kW wind turbine).*	Upon completion in 2008, 90% of the electricity was renewable (80,000 kWh per year supplied by solar PV).*
Avoided CO ₂ emissions	115,200 pounds of CO ₂ avoided annually	93,300 pounds of CO ₂ avoided annually
Wood pellet storage	Silo holds 35 tons of pellets for 1 year of heating	Silo holds 20 tons of pellets for 1 year of heating
Solar photovoltaic system	128.5 kilowatts of solar PV (45.5 kW of roof/building-mounted; 50 kW of ground-mounted; 33 kW of trackers)	70.6 kilowatts of solar PV (34.6 kW of roof/building-mounted; 28.8 kW of trackers; 7.2 kW on bike shelter)
Solar hot water system	6 solar hot water collectors and 240 gallon storage provide 70% of domestic hot water needs	3 solar hot water collectors and 119-gallon storage provide up to 70% of domestic hot water needs
Radiant heating and cooling	10 miles of radiant piping for heating and cooling (8 miles in building floor; 2 miles in pond)	4 miles of radiant piping for heating and cooling in building floor
Water usage and savings	Kitchen and bathroom water usage reduced by more than 30%, saving more than 60,000 gallons per year	Kitchen and bathroom water usage reduced by more than 33%, saving more than 40,000 gallons per year