

RENEWABLE ENERGY SHOWCASE

Northeast Wisconsin Technical College (NWTC) Unveils Great Lakes Energy Education Center (GLEE)

NORTHEAST WISCONSIN TECHNICAL COLLEGE

NWTC along with Werner Electric Supply, are providing students with training projects to meet the growing clean energy world. Werner Electric furnished a complete solar system project with inverters, solar panels, and racking for the new Great Lakes Energy Education Center building. Located in Green Bay, Wisconsin, the 30,000 sq. ft. facility will showcase energy-efficient design technologies.

Solutions - Multiple Inverter System Components

- Yaskawa Solectria Solar's PVI 14TL compact, transformerless three-phase PV inverter, dual MPP tracker
- SolarEdge SE14.4K-US three phase inverter, fixed-voltage technology
- Fronius Symo 12.0-3 transformerless, three-phase inverter, two MPP trackers
- Enphase IQ6/6+ Microinverter
- Unirac RMDT, 8 degree dual tilt system allows for up to 33% more modules

Efficiency

- Net Zero Building Capability - total annual energy utilized is equivalent to the amount of renewable energy created onsite.
- The 50,000 Kw of created power is equal to 58,000 watts - enough energy to power 15 electric cars averaging 50 miles/day, or provide all-inclusive power for 6 homes.
- Energy use index (EUI) of 30 Kbtu/sf/yr – provides extreme efficiency.
- Additional Energy Efficiencies - water source variable refrigerant flow, geothermal system, Dedicated Outdoor Air System (DOAS) with total energy recovery wheel, and hot water heating system.

Partnership

Collaboration between NWTC and Werner Electric is ongoing and provides students with energy education and experiences in clean energy technology. The GLEE building will house technical programs in power generation, transmission, and management to support clean energy careers. Werner Electric supports NWTC and students through product solutions, internships, and careers in clean energy. GLEE will help students advance their careers by offering associate degrees, technical diplomas, certificates, apprenticeships, and workforce training.

