

Designing a Better Energy Future at the New Sun Prairie High School



Through the New Construction Design Assistance program provided by Sun Prairie Utilities and WPPI Energy, the Sun Prairie Area School District has designed and constructed a state-of-the-art, energy efficient 410,00 square-foot new high school. The 51 member utilities of WPPI Energy are committed to preserving the value of our public power utilities. As community-owned utilities, we know that providing such energy-saving programs is one of the most important things we can do to help customers reduce their utility bills, protect the environment for future generations, and defer the need for expensive new power plants.

Green Features

- **Ground source heat pumps** - High-efficiency heat pumps use geothermal energy to heat and cool the building.
- **Dedicated ventilation system** - Conditions incoming fresh air and reclaims heat/cold from outgoing vented air.
- **Improved wall insulation** - Helps maintain indoor temperature and comfort.
- **High-performance lighting and reduced lighting power density** - Optimizes lighting while reducing energy use.
- **Demand control ventilation** - Automated with CO2 sensors, this system runs only when needed in the auditorium.
- **Rooftop solar photovoltaic system** - Harnesses clean, renewable energy from the sun.

Utility Funding

- **Sun Prairie Utilities & WPPI Energy** - Provided \$89,804 in New Construction Design Assistance funding for electric energy-saving measures. The New Construction Design Assistance Program helps deliver high-performance, non-residential buildings with improved energy efficiency, reduced energy use, improved system performance, and greater comfort.
- **Sun Prairie Utilities** - Also provided the rooftop solar photovoltaic panels.
- **Focus on Energy** - Provided \$54,933 in incentive funds for natural gas-saving measures.

Energy Savings

- **42%** - Anticipated reduction in school's energy costs
- **713,000 kilowatt-hours** - Projected annual electric energy savings
- **91,655 therms** - Projected annual natural gas savings
- **\$174,000** - Annual projected cost savings



WPPI Energy is a regional power company serving 51 community-owned electric utilities, including Sun Prairie Utilities. Through WPPI Energy, these public power utilities share resources and own generation facilities to provide reliable, affordable electricity and excellent service to more than 195,000 homes and businesses in Wisconsin, Upper Michigan and Iowa.