NORTHWIND **SOLAR**
www.northwindRE.com

PROJECT STUDY

Village of Amherst

Amherst, WI

Project Objectives:

- **Offset 87%** of the current energy usage with solar
- **Cost Savings:** Projected annual savings of $1,679.28, saving taxpayer dollars long-term
- **Cut carbon emissions** & boost municipal resilience

Energy & Environment:

11.4 metric tons CO_2e* avoided annually

Equivalent To:

- **1,281** gallons of gasoline consumed per year
- **12,648 lbs of coal** not burned for one year
- **104 acres of U.S. forests'** annual carbon uptake
- **773,311** smartphones charged for one year

**CO_2e is a simple way to show the total climate impact of all greenhouse gases as if they were carbon dioxide.*

12.96 kW Grid Tied, Solar Power System

- **(32) Solar Modules:** Hanwha Qcells Q.Peak DuoML G10+ BOB 405
- **(2) Inverters:** Tesla 5kW solar inverters
- **(16) Rapid Shutdown Devices:** Mid Circuit Interrupter Rapid Shutdown Devices
- **Racking:** IronRidge array racking
- **Monitoring:** Online performance monitoring

What's Next?...

Contact Northwind Solar to explore solar for your business. Get a free estimate package for preliminary budgeting and schedule a no-obligation site visit with our professional design & sales team.

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Project Incentives

- **Focus On Energy Rebate**
- **Federal Tax Credit**

Financial Performance

Total Project Cost: *Installed Solar Cost*	**$24,990** *$1.93/watt*
Focus On Energy Rebate:	-$2,120
Federal Direct / Elective Pay	-$6,861
Net System Cost:	**$16,009**
Estimated Years to Cost Recovery:	9 years
10-Year Energy Value:	$19,235.61
30-Year Levelized Cost of Energy*:	$0.040/kWh

Warranties:

- **Northwind Solar Workmanship Warranty:** 10 years
- **PV Modules Warranty:** 25-year product warranty and a 25-year performance guarantee (Hanwha QCells).
- **Inverter Warranty:** 10-year manufacturer warranty (Tesla solar inverters)

*Levelized Cost of Energy

Solar PV technology allows an owner to "fix" the cost of electricity produced over the lifetime of the installed equipment. Without solar, customers pay ever-increasing retail rates of energy to their utility prover. The Levelized Cost of Energy represents the cost-per-kWh of solar-derived electricity. In short, the levelized cost of energy is the net system cost divided by the total lifetime energy produced.

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Northwind Solar is a worker-owned cooperative!