

Niels Wolter

Madison WI, 608.216.4452, Madison.Solar@me.com

MADISON
SOLAR
CONSULTING



Services

Owner's Agent: Site assessments, Feasibility studies, Third-party tax equity ownership options, Grant writing, Installation and financing request for proposal process and selection, Technology selection, Warranty and replacement strategies, Permitting and Interconnection support, Education/outreach

Analyst: 15-minute solar resource and electric use, Utility electric rates and fees, Battery economics, Optimizing system sizing, Cost estimation, Life cycle economics, Environmental impacts, Regulatory/legal/policy review, Market assessments

19 Years Solar Experience

Madison Solar Consulting, Owner March 2011 to Present

Providing solar owners agent and analysis services, and supporting efforts to reduce barriers to solar

Wisconsin Energy Conservation Corporation, Senior Program Manager April 2007 to March 2011

Designed, operated and managed the State of Wisconsin's Focus on Energy Solar PV program

MSB Energy Associates, Associates May 1998 to April 2007

Designed, operated and managed the State of Wisconsin's Focus on Energy PV program, the Wisconsin Solar Use Network (WisconSUN) and USDOE's Wisconsin Million Solar Roofs program

Recent Projects – Since 2013

GS Solar (solar project developer and finance company targeting not-for-profit sites)

- Northland Pines School District 415 kW leading preliminary interconnection request, installation RFP process and installer selection, final design and specification, grant program relations (2017 to present)
- Darlington School District's 157 kW system supported installation and third party financing processes, authored USDA and Focus on Energy grants (\$125,000 grant funding) (2015 – 2016 and LLC board member)
- Holy Wisdom Monastery's 126 kW, Analyst and Owner's agent and analyst installed and financed through third-party participation with co-ownership (2014 and LLC board member)
- Madison Country Day School's 89 kW system – Analyst and Owner's Agent, installed and third party financed, also supported the system's reinstallation after a new school addition (2013 – 2016)

Hoffman Planning, Design & Construction Inc. (known for creating sustainable buildings at competitive costs)

- Sinsinawa Dominicans technical and financial feasibility study for siting solar at three meters, senior living, waste water treatment facility and drinking water system (250 kW total), grant writing, etc. (2017 to present)
- Sauk County Feasibility study 675 kW of solar at Law Enforcement Center and Health Care Center, feasibility study, schematic design, 3rd party financial analysis, grant writing (\$146,000 funding), interconnection review, RFP process for installation and financing, installation and financing contracting support, installation oversight (2017 to present)
- Northland Pines School District Eagle River WI 415 kW at three sites feasibility study, schematic design, third-party financial analysis, preliminary bidding, and grant writing (\$92,000 funding) (2017 to present)
- Congregation of St. Joseph at four Mid-Western sites, 625 kW of PV including solar carports, technical and financial feasibility assessments, schematic design, RFP process, and supporting contractor selection (2016 – 2017)
- Our Lady of Victory Missionary Sisters, Indiana, 60 kW, PV financial assessment, pre-feasibility study, and schematic design (2016)
- Darlington (WI) School district 157 kW projects at two schools, technical and economic feasibility study, schematic design, 3rd party financial analysis, community education (2015)
- Financial assessments and pre-feasibility studies for 3 Wisconsin school districts (2015 – 2016)

Cheq Bay Renewables Site visits, solar siting options, schematic design, energy and net metering assessment, energy efficient and demand side management integration, and third party financing analysis for Washburn County, City, School District, and Housing Authority; and Bayfield School District potential for 700 kW (2018 – present)



City of Madison (Sustainable Engineering Group) Financing options analysis for three city-owned buildings 530 kW (2018)

City of Milwaukee site selection, schematic design, sizing, preliminary pricing, financial analysis, grant writing, and developing the RFP for installing and financing 1.1 MW at six buildings (2017 to present)

Dane County Alliant Energy Center and Jobs Center, 755 kW, Owner's agent: project sizing, 15-minute production and bill impact analysis, interconnection cost and system cost estimation, economic analysis, and schematic design (2016); and 15-minute solar and concurrent electric meter usage analysis for Dane County's larger electric meters (2018).

City of Fort Atkinson WI, up to 1.5 MW, detailed solar PV assessment at 15 sites from the wastewater treatment plant to senior center, includes site analysis, optimal sizing, valuing of energy produced, interconnection issues, utility discussions, project economics, third-party ownership options, scenario analysis, environmental benefits (2016 to 2017)

Componex, Edgerton WI, 240 kW, Owner's agent: client education, technical and economic feasibility study, 15-minute energy analysis, lead installation RFP process, supported installer and technology selection (2016), supporting with decision process for installing 350 kWh battery system providing demand reduction and grid frequency regulation support (2017).

Wisconsin Foam Products, First Unitarian Society of Madison, Fort Health Care, Hoard Dairyman's Farm, Johnson Screens, Capital Lakes Retirement Community, Benjamin Plumbing, Spruce Street Real Estate, Blackhawk Senior Residences, Fountain of Life Church general support services, completed feasibility studies and owners agent for businesses/organizations considering solar PV systems (35 kW to 350 kW) (2015 to present)

Magid Glove leading RFP process, bid review, and contract review, for 3.5 MW rooftop project Chicago IL (2017 to present)

Arch Electric, North Wind Renewables, Safer Better World, Mathy Construction, St. Croix County Supporting solar system installers and clients with USDA and Focus on Energy grant applications and group purchase proposals (2015 – present)



Holy Wisdom Monastery, Middleton WI