2012 Peninsula Solar Vendor Directory

American Sun Electric
www.americansunelectric.com

Terry Wessel
224 Pleasant St.
Blue Hill, ME 04614
(207) 374-5263 *phone*

Products: Full commercial and residential electrical services, Solar PV equip., system design and installation, solar power trailer rental

ReVision Energy
www.revisionenergy.com

Jennifer Albee
91 W. Main St
Liberty, ME 04949
(207) 589-4171 *phone*

Products: Grid-tied Solar PV and Solar Thermal design, installation and service

Sundog Solar Store
www.SundogSolarStore.com

Chuck Piper
18 East Main St
Searsport, ME 04974
(207) 548-1100 *phone*

Products: Sales and installation of solar electric, solar hot water and heat pump systems. Wagner Solar, Stiebel Eltron, Sun Earth, MAGE Solar, Magnum Energy

Solarmarine, LLC
www.solormarine.com

David Coomer
498 Varnumville Rd
Brooksville, ME 04617
(207) 326-8016 *phone*

Products: Solar PV and Solar Thermal design, installation and service

Penobscot Solar Design
www.penobscotsolar.com

Daryl Dejoy
615 Black Ridge Rd
Penobscot, ME 04476
(207) 326-0779 *phone*

Products: Design, sales and installation of solar electric systems since 1988

Solar Market
Talmage Solar Engineering, Inc
www.solarmarket.com

Naoto Inoue
25 Limerick Rd
Arundel, ME 04046
(207) 985-0088 *phone*

Products: Solar PV design and installation

Solartechnic Contractors, Inc.
www.solartechniccontractors.com

Clayton Cole
234 W. Corinth Rd
Corinth, ME 04427
(207) 285-7886 *phone*

Products: Solar hot water & space heating, radiant heat, pellet, wood boiler

Help promote smart energy solutions for Maine!

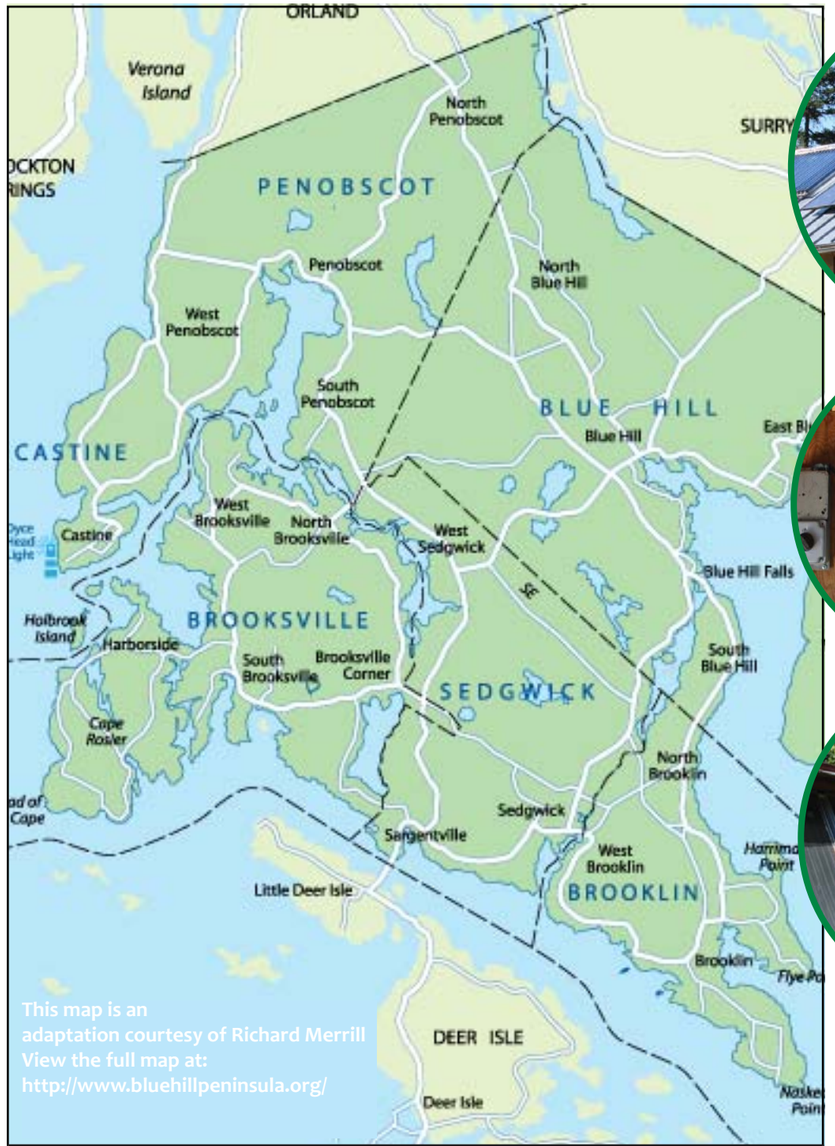
Share your successes or challenges with energy efficiency or renewable technology so we can all learn.
Or tell us about a vendor or installation that we should add to this guide.
Contact Claudia Lowd at (207) 581-4523 or CleanEnergy@MaineRural.org.

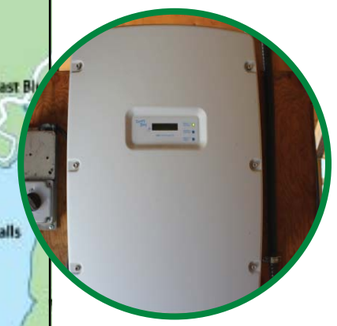
Find more energy resources you can use at www.MaineRural.org. Or, for inspiring stories from Mainers who've used ingenuity to power their lives visit www.MaineRural.org/InspireME

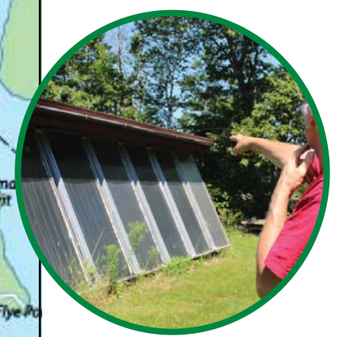
The information in this guide was provided by customers,manufacturers and installers. Perform due diligence before making any final decision. Maine Rural Partners neither represents nor endorses any manufacturer, product or vendor.

Funding for this Buyers' Guide was provided by the Towns of Blue Hill, Brooklin & Sedgwick, the American Recovery and Reinvestment Act, Maine Rural Partners, & sponsoring vendors.

Solar Equipment Buyers' Guide 2012







Why solar in Maine? Well-why not? It is doable and cost effective. Many components of solar systems are given warranties of 10 to 25 years. This industry is evolving. Many solar manufacturers have been merged or consolidated. Know your installer. Inside are happy customers with solid installations from competent Maine businesses.

Maine Rural Partners
Strengthening our rural community

Just starting out with solar? Here's a basic explanation, followed by six featured installations from your neighbors here on the Peninsula.

Photovoltaic = Electricity

PHOTOVOLTAIC (PV) PANELS are connected into an unshaded array which creates electricity when the sun hits them. Solar energy is created as DC (direct current) but our homes use AC electricity (alternating current). That is why you need an **INVERTER** to change (or invert) the power from DC to AC. If you want to be more energy independent and go beyond grid-tied, you can store the power with **BATTERIES**. This makes the system more expensive and increases maintenance.

Conergy Photovoltaic Panels

www.revisionenergy.com

Approximate Cost: $5,000 installed with rebate and tax credit (2010)

Specs: 1.8 kW grid tied system

System: No battery back up, uses microinverters

Additional Information: Paired with a previously installed 1.8 kW wind turbine, the system generates 70% of the household electricity needs. The PV array installed by Revision Energy, produces more than the wind turbine.

Featured Installation: Home of Ron Poitras, Surry

Trace Inverter
(now known as Xanthrex Trace from Schneider Electric)

www.solormarine.com

Approximate Cost: $2,500 installed

Specs: 2400 Watt 24 volt

System: Part of a system bought at the Belfast Green Store in 1999.

Additional Information: Originally sold as a power panel which included two inverters, a charge controller, and a voltage regulator. All three are needed for an off-grid or grid-tied-with-battery system.

Featured Installation: Kimball Petty and Deb Marshall, Little Deer Isle

Deka Battery Backup System

www.solarmarket.com

Approximate Cost: $500 each found online

Specs: DEKA AGM, 12 volt 245 AH

System: These are AGM (absorbed glass mat) suspended electrolyte deep cycle batteries.

Additional Information: In place since 2005 without any problems. See the nice insulated box that is being used outside the home. This system has a grid tie plus a battery back up. A true hybrid system.

Featured Installation: Dick & Gail Bartlett, Kingdom Bikes, Blue Hill

Solar Thermal = Hot Water

SOLAR THERMAL is hot water that is made in either **FLAT PLATES** or **VACUUM (EVACUATED) TUBES.** All solar hot water systems in Maine use food grade antifreeze. Evacuated tubes are very efficient -- so efficient that you may need to go outside and wipe the snow off them. Flat plates are hot to the touch so they lose this energy to the atmosphere. The snow just melts off. You will make more hot water in the summer than in the winter. Summer camps, car washes, dairies and laundromats all use lots of hot water in the summer.

Sundra Evacuated Tubes

www.sundasolar.com

Approximate Cost: $1,500 for panels, $6,000 entire system installed

Specs: Sunda Seido 24 tubes with a 80 gallon storage tank

System: Originally this system had a photovoltaic panel running the pump. That panel kept getting snow on it and stopping the pump. The system is now wired to a 110 volt pump with no more issues.

Additional Information: Furnished by Talmage Solar Engineering/ SolarMarket of Arundel who now exclusively installs PV systems.

Featured Installation: Dick & Gail Bartlett, Kingdom Bikes, Blue Hill

Wagner Solar Flat Plate Collector

www.sundogsolarstore.com

Approximate Cost: $4,950 installed with rebate and tax credit (2012)

Specs: (2) 4ft by 7ft collectors and an 80 gallon tank

System: This solar hot water system provides approximately 70% of the annual domestic hot water needs for the home. It also saved the home owner approximately $750 off their oil bill.

Additional Information: The glycol heat transfer fluid flows through the collectors to melt snow and ice that may accumulate. This insures better production numbers throughout the winter.

Featured Installation: Home of Tom & Kim Curry, Brooklin

Holding Tank

www.solormarine.com

Approximate Cost: $30,000 for entire solar thermal system installed

Specs: 500 gallons (two tank system)

System: Installer now recommends American Solar Technics storage tanks, previous manufacturer out of business.

Additional Information: It is a supplemental system to the Buderus boiler. Installed in 2006, system has 8 evacuated tube panels. Snow can collect on tubes because of roof design. Uses well water.

Featured Installation: Blue Hill Laundry