



www.solarconnexion.com
Blacksburg, Virginia
Locally owned & operated since 1993

Virginia's Premier Photovoltaic Contractor

**Consultation • Site Analysis
Design • Installation • Service
Residential & Commercial**

We value reliability, performance, efficiency, workmanship, and integrity while minimizing the true cost per kWh.



From the simple cabin retreat to a fully solar powered community, we have been installing and improving renewable energy systems of all sizes for over two decades.



Why go solar?

Solar electricity, known as photovoltaics (PV), is a proven means of producing electricity from the sun. With PV, you can avoid rising energy costs, reduce or eliminate your electric bill, increase the value of your home, and produce clean energy. There may also be state or federal rebate programs that can further reduce costs.

What are the different types of systems?

Grid Tie systems use only solar panels and an inverter, are the least expensive, most efficient, and “greenest.” However, they provide no energy storage.

Grid Interactive systems add a battery bank so they may operate when the utility grid is down, cost 30-150% more than grid-tie systems, and are about 10% less efficient than grid tie systems.

Off Grid systems are stand-alone systems that are completely independent of the utility grid but are very expensive and the least “green”.



Where do the panels go?

Arrays can be roof-mounted or ground-mounted. Roof mount can be less expensive up front, but are typically less efficient. Space permitting, ground-mount allows for optimal orientation to the sun and better airflow/cooling.

How much does it cost?

Most residential roof-mount grid-tie systems can be installed for \$4.00 - \$4.50 a watt (2013 rates) depending on system size and using standard panels.

	Roof Mount	Ground Mount	Total System Cost
Grid Tie	\$3,500-5,500 / KW	\$4,500-6,500 / KW	\$7-130k
Grid Interactive	\$8,000-40,000 above cost of Grid Tie System		\$22-180k
Off-Grid	<i>highly variable</i>		\$1.5-500k



For an approximate idea of a Grid Tie array size (in kW) to offset all of your energy use, divide total yearly energy use (kWh) by 1400. A full system is not required; a smaller system can be used to offset a proportion of your energy.

With solar PV prices at historic lows, the 30% Federal Renewable Energy Tax Credit (dsireusa.org), and utility rates on the rise, it is a great time to invest in solar energy.

How do I get started?

Contact Solar Connexion for a needs analysis and in-person consultation. Start by completing the online request form on our website at www.solarconnexion.com. You will need to provide your yearly kWh use from your electric bill.



Why choose Solar Connexion?

Solar Connexion is Virginia's premier renewable energy contractor. The founder oversees every job and uses his 20+ years of photovoltaic experience to be sure that the customer is making a wise investment. Since Solar Connexion began in 1993, the business has installed a vast range of renewable energy systems in the mid-Atlantic including solar (off-grid, grid interactive (with batteries), grid-tie, and generator interactive), wind generators, and thermal systems.

Solar Connexion works with community partners and has donated expertise and equipment to projects such as the Blacksburg Farmer's Market, the award-winning Virginia Tech Lumenhaus, the demonstration wind and solar project at the YMCA at VT, and low-income housing organizations.

Who does the work?

Our staff is a small, highly skilled group whose entire focus is planning, building, and providing on-call service for high quality, state of the art renewable energy installations for both residential and commercial applications. We contract the whole job and don't sub out anything, except digging in specific cases. We service what we sell and install as well as service pre-existing systems, even if another contractor installed it.





"Bryan Walsh at Solar Connexion has been doing solar PV installations for a long time and knows what makes a high quality installation. He is committed to installing systems that work, that last, and that produce the maximum energy for a given project size."

"We are very pleased with our PV solar system designed and installed by Solar Connexion. The system has been working great. I can't tell you how gratifying it is to know our home is powered by clean energy from the sun!"

"Solar Connexion is the only solar contractor I would consider. I give them my highest recommendation"



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