

Matrix Energy supplies several PV systems to Laval University

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In 2009 Matrix Energy was approached by Laval University's Centre for Northern Studies (Centre d'Études Nordiques - CEN) in requesting the design and specification of seven grid-tied and six off-grid Photovoltaic (PV) power systems totaling 37.8 kWp. The tenders for the PV systems were developed by engineering consultants CIB Groupe Conseil, and Matrix Energy received an order for equipment supply from Valko Electrique in early 2010. The installations were completed in the second half of 2010 and 2011.

The off-grid PV systems each comprised 1.4 kWp of SolarWorld monocrystalline solar modules, Xantrex XW MPPT 60A charge controller and 4kW / 24V inverter charger, 15 kWh GEL battery banks, mounting hardware and accessories. These autonomous systems serve to power equipment located at CEN installations in the Boniface and Lac à l'Eau Claire sectors. CEN recognized the advantage of low maintenance off-grid PV systems over diesel generators, which require costly maintenance, repair and operation. Transporting diesel fuel to remote areas, often by air during the wintertime, is particularly costly and increases project risk. Matrix Energy also supplied low voltage DC appliances, including heavy duty pressure pumps and top loading fridges and freezers.

The seven PV systems connected to Hydro-Quebec's utility grid each comprise 4.2 kWp of SolarWorld monocrystalline solar modules, Xantrex 5 kW grid-tie inverter and monitor, mounting hardware and accessories. These systems allow CEN to reduce their electric utility costs on a monthly basis, and were installed in the Kuujjuarapik, Umiujaq and Salluit sectors of the province.

Matrix Energy is pleased with the increased interest for grid-tie, off-grid and hybrid PV systems among institutional customers in Quebec and elsewhere, and looks forward to developing PV projects with partners in the future.



Denis Sarrazin, CEN
Centre d'études nordiques
Centre for Northern Studies
Université Laval, Nunavik
Whapmagoostui-Kuujjuarapik



Denis Sarrazin, CEN
Centre d'études nordiques
Centre for Northern Studies
Université Laval, Ward Hunt lab
Northern Ellesmere Island, Canada
N 83° 05, W 74° 07

About Matrix Energy Inc:

Matrix Energy (www.matrixenergy.ca) works with building professionals, designers, architects and engineers in designing, specifying, and supplying different products for the sustainable use of energy. Matrix provides solar integrated electric systems for new and existing buildings to help reduce total dependency on conventional energy sources.

Matrix Energy Inc

Toll free: 1 866 630-5630 Tel: (514) 630-5630 Fax: (514) 426-9123
Email: marketing@matrixenergy.ca



Denis Sarrazin, CEN
Centre d'études nordiques
Centre for Northern Studies
Université Laval, LEC lab
Northern Québec, Nunavik