

ARISE PROJECTS BROCHURE

ARISE offers turnkey solutions that include design, consulting and installation for residential, commercial, industrial, and institutional clients. We have select partnerships with established solar dealers, installers and builders to deliver the best solar energy system for your application.

ARISE is a Canadian leader in grid-tie technology and systems integration. All the projects described are connected to the local utility grid. The ARISE team has the experience to provide complete renewable energy solutions for residential, industrial, commercial or institutional applications.

Canada's First Solar Neighbourhood

These homes represent the first demonstration of community-scale photovoltaic (PV) systems in Canada. Working with a new home builder, ARISE developed a building integrated photovoltaic (BIPV) system with refinements specific to the Canadian climate.



West Toronto Initiative for Solar Energy (WISE)



WISE is Ontario's largest community, bulk-buy initiative to date. As the selected vendor for PV systems connected under the new Standard Offer Program, ARISE Technologies successfully worked with all stakeholders to quickly execute a large scale residential rooftop initiative. Nineteen of 20 homes scheduled for 2007 installations were in commercial operation by year-end. As of January 2009 31 PV systems are in commercial operation.

Canadian Centre for Inland Waters

Project Description: This federal building provided an opportunity to implement the Solar Quilt technology. The system is specifically designed for flat roofs with no roof penetration by the mounting structure.

Size of Solar Array: 10kW
Solar Description: Solar Quilt ballasted flat roof mounting system using Sharp solar panels.
Inverter: Trace PV10
Estimated generation: 10,000 KWH per year



University of Waterloo, Federation Hall

Project Description: The system was designed by STEP (Solar Technology Education Project) a student engineering project. The engineering students worked in collaboration with ARISE, providing technical support.

Size of Solar Array: 2kW
Solar Description: 36 Evergreen modules, grid tied PV array
Date of Installation: 2004



Waterloo City Hall



Project Description: The Federation of Canadian Municipalities provided funding for this project that showcases grid-tie electricity for the general public in a municipal setting.

Size of Solar Array: 1kW
Solar Description: Custom laminated Photowatt (ATS) panels mounted on the top of an existing skylight.
Inverter: Xantrex Suntie XR
Date of Installation: 2004

Queens University

Project Description: Project completed in partnership with Halsall and Steven Strong of Solar Design Associates, a pre-eminent solar architect.

Size of Solar Array: 20kW
Solar Description: Wall mounted Solar Shade system using 75W Photowatt modules.
Inverter: Xantrex
Date of Installation: 2003



Darchei Noam Synagogue

Project Description: A ballasted 3.5kW system installed on the white, reflective roof membrane of Canada's greenest synagogue. This system fulfilled the project requirements to mask the rooftop HVAC components from view, and not penetrate the roof membrane. The array withstood gale force winds in January 2008, one week after completion of the installation. The solar panels will generate about 5,000 kWh of clean energy per year. This beautiful structure is a leading example of the emerging all-faiths green religious movement, Faith in the Common Good.



Rawlinson Public School

Project Description: An SOP-connected 1 kW demonstration system as part of the Solar Schools Environmental Education Initiative. At the request of the Toronto District School Board for a system that was visible but out of harm's way, ARISE installed a high, wall-mounted system.

Toronto Home

Project Description: A 2 kW flat roof WISE project installation. 'Sleepers' are incorporated into the roofing system to make it leak-proof. The panel configuration is designed to avoid shading from the peaked roof to the south.



Toronto Home

Project Description: A 2.2kW flush-mounted WISE installation. This system was designed and installed to incorporate the existing south-facing skylight.

North Dumfries Home

Project Description: Flush-mounted grid-tied system. Initially configured as a net metered system and then converted to Standard Offer Program

Size of Solar Array: 3.5kW
Solar Panels: Sanyo 190W
Inverter: Xantrex GT 3
Date of Installation: June 2006



Conestogo Home

Project Description: Rack Mounted system with seasonally adjustable legs. System is grid tied with battery back-up.

Size of Solar Array: 3kW
Solar Panels: Sanyo 167W
Inverter: Xantrex SW4048
Date of Installation: July 2005

Mansfield Home

Project Description: Tracker mounted grid- tie system. System connected under the Standard Offer Contract.

Size of Solar Array: 2.6kW
Solar Panel: Kyocera 130W
Inverter: Xantrex GT3.0
Date of Installation: October 2006

