

Commercial Grid-tied SOLAR PV Systems

Grid-tied Solar PV for
Commercial Buildings
Federal, Provincial, Municipal
Government Facilities
Ontario FIT Certified Systems

Generation  PV

In cooperation with  Dundurn Edge Developments INC.

Background

Photovoltaic (solar PV) production has been doubling every 2 years, increasing by an average of 48 percent each year since 2002, making it the world's fastest-growing energy technology. At the end of 2008, the cumulative global PV installations reached 15,200 megawatts. As of October 1, 2009 the rules have changed and the Ontario Power Authority (OPA) introduced the ground breaking Feed-In-Tariff program modeled after the successful implementation of similar programs in Europe. Now building owners in Ontario can have a state-of-the-art clean, renewable energy generation facility on their roof providing silent "green" electricity to the local power grid at premium rates.

Opportunity

The opportunity to profit from a solar PV system has never been greater. If you own a building with a suitable roof we would like to work with you to build and maintain a solar PV system giving you the option to lease, invest, own or a combination of each. FIT rates pay for every kWh the solar PV system produces, independent of how much electricity the building consumes.

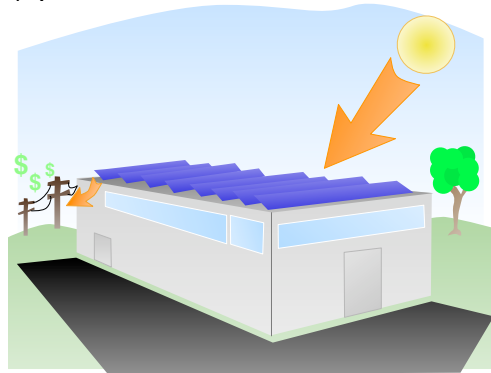
Using the chart below, a 250kW solar PV system in Ontario could generate \$200k-\$250,000 income annually. Typically, a 250kW solar PV system would fit on a 50,000 SQ FT rooftop. *(Information is based on average conditions and subject to adjustments based on site conditions such as roof structure, orientation and shading.)*

Size of PV System	FIT Rate \$/kWh	Condition
<10kW	\$0.802 / kWh	Anywhere
10-250kW	\$0.716 / kWh	Rooftop Only
250-500kW	\$0.635 / kWh	Rooftop Only
500kW+	\$0.539 / kWh	Rooftop Only
>10kW	\$0.443 / kWh	Ground Mount

There are many design and equipment choice considerations that have to be made to optimize solar PV for maximum output in Ontario. An experienced solar company who can properly design and maintain your system is critical to the success of your solar PV investment. Ontario has abundant source of renewable energy. Isn't it about time to benefit from the sun today?

How Solar PV works

The basic concept behind solar PV systems is straightforward. Solar Modules convert the sun's rays into DC electricity. An inverter then converts the DC power into grid-friendly AC power. The electricity is now ready to be sent out to the grid. It first travels through a meter that measures how much power is being produced. Based on the number of kWh's generated by the solar PV system, payment is issued



monthly to the system owner by the LDC (Utility) at the appropriate premium rate. (see FIT rate chart) Now clean, renewable energy feeds Ontario's power grid ready to be used by you or your neighbours. The solar PV system does not lower or eliminate your regular electricity bill. Rather, all of the power generated from the sun gets sent directly to the grid. You continue to pay your own electricity bill as normal. Think of it this way. You now have two meters on your building. One meter measures how much electricity you use; the second meter measures exactly how much power your solar PV system generates. It is that simple!

Experience

Generation PV employs some of the brightest minds in the solar industry along with extensive world-wide experience. With over 45,000 solar PV systems deployed in more than 60 countries during the past 28 years, Generation PV staff have experience in designing and constructing solar power systems for a wide range of climate and mounting configurations for a variety of power applications. Our team includes award winning LEED Platinum building developers responsible for some of the greenest buildings in the country along with financial experts who have overseen millions of dollars of clean tech investments. This gives us the ability to ensure attractive returns for building and project owners alike.

Our range of experience and expertise provides you with a company who can engineer, construct, maintain and finance your grid-tied solar PV system.

Options

Generation PV offers 3 main options for Ontario FIT solar PV systems to building owners.

- **Roof Lease.** You may lease us your roof for a fixed annual fee or percentage of the revenue produced by the solar array. We will finance, design, install and maintain the PV system for its lifetime. This is ideal for owners who may not have the capital to invest in a large solar installation or other priorities.
- **Purchase.** You may purchase a solar PV system outright from us and arrange your own financing. We will design, supply, install and commission the system. As an option, we can monitor and maintain the system to assure optimal performance.
- **Lease and Invest.** We offer a third option where you lease the usable roof space to us and we offer you an opportunity to invest in the project at an affordable level. This option provides the participants to share attractive rates of return.

Getting Started

There are a few things you need to know before deciding if a solar PV system is right for your building. We have a simple and streamlined process from first contact to final commissioning. The following stages will take place.

1. Initial Roof Assessment
2. Preliminary Proposal & Quotation
3. Sign MOU
4. Financing Plan Approved
5. Detailed Engineering
6. Sign Contract
7. Apply for FIT, Building Permit, ESA Plan Review
8. Install Solar PV System
9. Commission System and Connect to Grid
10. Enjoy the Revenue Stream!

For additional information about the Ontario FIT Program visit www.greenenergyact.ca and www.fit.powerauthority.on.ca