



Why Create Solar Power?



Ethosolar

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The importance of the farmer's role in the Ontario economy can never be overstated. This importance has recently been elevated through the **Green Energy Act**. The Ontario government's goal of making Ontario a leader in



renewable energy has landed in fields and on barns of every Ontario farmer. As a result of this Act there will be new jobs and opportunities for the agricultural community. Through solar and other renewable energies, Ontario will be able to enjoy greater energy security. Due to the growing scarcity of fossil fuels and climate protection, the development of these renewable energies is very important as it will lower our dependency on “dirty energy” like coal burning power plants.

The OPA (Ontario Power Authority) has specified different types of renewable energy projects that can be utilized by farmers. These include:

- Biogas, Biomass, Solar (PV), Waterpower and wind

At EthoSolar we have a chosen to offer the Solar Photovoltaic option to the agricultural community.

Why Solar?

#1 Availability

The amount of sunlight (PV rays) that the earth receives in one day could produce enough electricity to support the planet for 27 years. However, less than one percent of the electricity we use today is being harvested through solar power. Even though the solar energy sector is growing by leaps and bounds, we have a long way to go to accomplish a fraction of the potential of this amazing unlimited resource. Another reality is the solar panels convert sunlight into power even on cloudy days. This allows solar power project to be productive 365 days of the year.

#2. Affordable with a high return on investment



So speaking of green, let's see how this works out as an investment. The OPA offers a Micro-FIT program which refers to any project under 10kW/hr production capability. The Micro-FIT program is a guaranteed contract with the OPA for a 20 year term at 80.2 cents per kW/h produced. For a Micro-FIT project, this translates into an attractive return on your investment that is guaranteed for 20 years.

#3. Simple and Economic

Diversifying with a new venture usually comes with several challenges and requires a significant investment of time. However, with solar you can almost "set it and forget it!" It really is that simple. After a turn-key installation, all that is required to make money is the sun shining. Also, it is the most inexpensive of the renewable energies to invest in.

#4. Old Technology...since the 50's

EthoSolar installs polycrystalline PV (Photovoltaic) solar panels. They are one of the most economic solar devices available today.

Harvesting the sun's energy has developed from ancient times where the thermal



energy from the sun was used to heat homes by positioning their homes for optimum exposure to the sun.

It wasn't until 1905 when Albert Einstein theorized the PV (photovoltaic)

affect which exploits the component of sunlight energy that can be converted into electrical energy. This technology was first used in places that were too far from the power grid. These areas included the early space program during the 1950s as well as the US Coast Guard for supplying power to light buoys. Today, solar technology is being utilized in most every aspect of our society. For example, all of our satellite technologies, including cell phone use and GPS positioning, are being powered by solar (PV) energy.

#5. Ease of Installation and Maintenance

- a complete turn-key system.
- set it and forget it.
- no moving parts.(Tracker solution is available)
- 20 year coverage on all major parts.
- No environmental assessments required.

#6. Increase in Demand

...investing in a technology that has a strong future demand just makes sense.

- Solar power creates no pollution in its production
- Solar electricity is a non-combustible (non CO2 producing) energy
- Electricity is produced and sent to the grid.
- It is sustainable and renewable
- Electricity is the energy of the future
- Solar is a part of the rebuilding of Ontario's sustainable energy sources
- By investing in alternative energy sources like solar power generation, Ontario will be able to replace its aging coal and nuclear power generators with renewable energy sources.

- The solar industry is expected to create 50,000 new jobs in Ontario over the next several years.

If you are interested in finding out more information regarding this great opportunity and how you can benefit from it, please go to www.ethosolar.com or call us at 705.252.9155.

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