



SOLAR POWER PACKS

Powering Telecom, Health, Education, Banking,
Housing and Construction Sectors



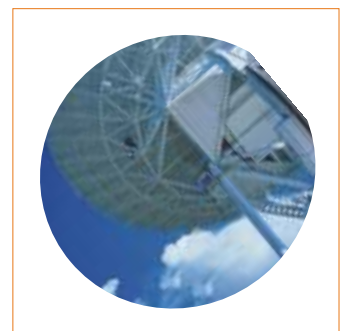
Residential Solar
Systems



Commercial Solar
Systems



Large Scale
Solar Parks



Solar Systems for
Remote Locations

Did you ever imagine losses due to power interruptions?

Industries and the commercial sector lose significant productivity due to power interruptions. They are compelled to use expensive and polluting diesel to generate power. That subsequently increases their production cost - making them non-competitive in the marketplace. Profitability of the telecom and banking sectors shrink for similar reasons. Hospitals cannot deliver much needed healthcare services to the patient without adequate and reliable power supply.

Is there any solution available?

Our dedicated team of engineers can address this problem through sustainable and clean power generation and energy management technologies. Please email or call us to enquire about clean power generation technologies and solutions.

Corporate Office: One Yonge Street, Suite 1801, Toronto, Ontario, Canada M5E 1W7

sales@isdntechnologies.ca, E-Commerce: www.isdntechnologies.ca/isdn_shop, www.isdntechnologies.ca

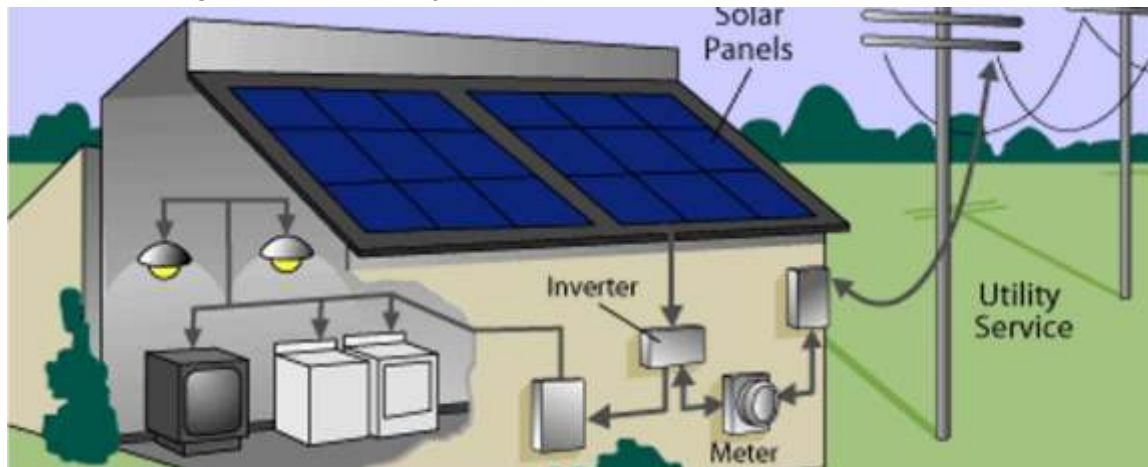
Introduction and Typical Applications: (Source: CanSia)

Solar PV technologies convert sunlight to electricity, as compared to active solar collectors (which convert sunlight to heat). The efficiency of solar PV increases in colder temperatures and is particularly well-suited for Canada's climate. A number of technologies are available which offer different solar conversion efficiencies and pricing. Solar PV modules can be grouped together as an array of series and parallel connected modules to provide any level of power requirements, from mere watts (W) to kilowatt (kW) and megawatt (MW) size. Typical applications include:

- Marine and Aviation navigation lights
- Water pumping
- Telecommunication repeater stations
- Oil and gas SCADA systems
- Off-grid remote houses and lodges for fishing
- On-grid residential and commercial systems

On-grid "distributed generation" to reduce peak power loads, save on utility bills, reduce stress on distribution lines, and provide voltage support for distribution lines.

Grid-Tied (On-grid) Residential System:

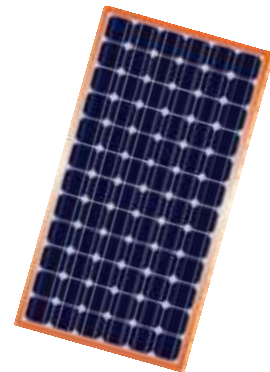


Source: Texas Gov Renewable



Solar Panels:

We supply solar panels from a wide variety of manufacturers and prices start from US\$3.75/Watt. Please feel free to contact us for information on panels for all your residential and commercial needs.



Residential Solar Packages:

Our power packs come in a wide variety of configurations for residential and apartment buildings. Typical configuration include panels, charge controller, batteries, inverters, rack mount, cables and circuit breakers.

- 100 watt system for powering 5 energy saver lights as standalone units.
- 500 watt system for powering 5 energy saver lights, 2 fans and computer.
- 1000 watt system for water pumping, and lighting load.

We also have systems in 5, 10, 20 kW configurations. Please call or email our design team for configuration and quotes.



Telecom Solar Packages:



Over the last several years, the telecom sector has witnessed a tremendous growth. However, the need for power at remote locations has been a challenge to provide reliable and consistent voice and data services. Our power packs are designed and installed to meet the most stringent and rugged environment. All over the world, Telecom Companies, Network Operators, and Utility companies are turning towards PV systems as the most reliable technology for their remote locations and typical application include:

- Telecom Repeater
- Radio Base Stations
- Domestic Satellites
- Telemetry and SCADA Systems

Solar Power System may range for few watts to thousands of watts depending on requirements. Solar System typically power load from 1 Watt single wireless terminal to 5000 watts. These system can work as stand alone application with typical DC battery bank storage or can be designed as Sun-Diesel Hybrid.



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Solar Power Accessories & Complete Balance of Plant (BOP) Equipment:

Charge Controller



Solar Deep Cycle Batteries



Communication System



PV Inverters



Solar Street Lights



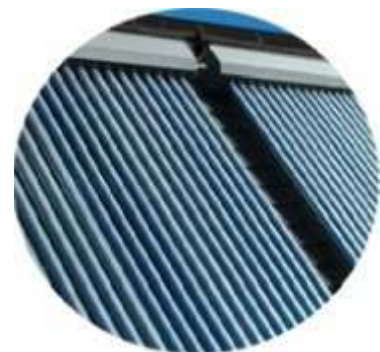
Utility Scale Solar Parks



Concentrated Solar Power



Solar Water Heating



Our Engineering Services:

We provide core engineering and project management services to renewable energy sector including:

- Feasibility Study and Preliminary Engineering
- Detailed Engineering Design and Construction
- Design, Build and Operate Services
- Infrastructure Design and Deployment
- Agile Project Management, Business Planning and Risk Analysis
- Project Evaluation and Project Audits
- Consulting, Training and Implementation
- System Design and Integration



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