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Canada's Go Solar Guide & Directory 2019

ABOUT US

The *Canadian Solar Industries Association (CanSIA)* is a national trade association that has advocated on behalf of the solar energy industry in Canada since 1992. We proudly represent manufacturers, installers, developers, builders, owners, engineers, consultants, and a variety of other companies and stakeholders who want to see solar energy grow in Canada. On behalf of our members, CanSIA promotes the unique economic, environmental and technological benefits of solar energy in Canada. We believe that our role as an industry association is not only to represent our members on issues of the day, but to position the industry for sustainable growth for years to come.

INTRODUCTION

As the cost of going solar continues to decline and the technology only improves, it's no surprise to see solar being installed more frequently on homes, farms, and commercial spaces. In addition to the environmental benefits of solar, generating your own energy from the sun saves you money on your electricity bills and can help ensure your home is prepared in the event of a power blackout, or natural disaster when paired with storage. There has never been a better time to harness the power of the sun!

Created for you, the consumer, this guide is designed to help you understand how you can benefit from generating your own electricity, as well as familiarize you with the installation process from start-to-finish. Whether you're looking to take control over your electricity bill, or want to reduce your home's environmental impact, solar can help you achieve both of these goals and more in a quiet, nonintrusive manner.

How does solar work?

All solar systems capture light from the sun and convert it to energy that we can use in our homes, either as electricity or heat. There are two methods of energy generation most commonly seen on homes, farm, and commercial buildings: Solar Photovoltaics and Solar Thermal. While both use the sun's energy to create usable energy, solar photovoltaic systems use the energy to generate electricity, whereas solar thermal systems use the energy to heat air or water.

Energy storage systems are also becoming increasingly more common to pair with solar photovoltaic systems. These batteries help store excess energy generated by the solar PV system for later use.



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Solar Photovoltaics

Solar photovoltaics (PV) are the most commonly used solar technology. Flat panels are attached to rooftops, or mounted on the ground. During the day, PV panels produce direct current (DC) power, which is then fed through an inverter to create an alternating current (AC) power, the type of current that is most commonly used in our homes.

This AC power output can either be directly connected to your home's electrical system or the power can be sent to the electricity grid via the wires attached to your home.

Solar Thermal

Solar Thermal is another form of solar energy technology that captures the light of the sun for space and water heating. Solar thermal technologies used in an everyday setting typically appear in the form of a flat, roof-mounted plate that has liquid circulating throughout it. Heat from the sun is captured in a fluid and used to help heat (or pre-heat) the water you use for washing dishes, running a bath or rinsing off the dog after a muddy run.

There are also solar air heating systems that capture light from the sun to heat air that will circulate through a home or building. This often takes the form of a hollow outer wall structure that allows warmed air to flow up the inside of the wall and into the building.

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Energy Storage

It is not uncommon for a solar PV system to produce more energy than your home actually needs. Through devices such as batteries, the unused energy your solar PV system generates can be stored for later use, such as at night or on a rainy day.

There are many benefits to energy storage. Batteries can provide electricity to your home in the event of a power outage. Like other solar components, batteries are rapidly improving and falling in cost, but you'll need to talk to your installer about whether this option makes sense for you.

Determining Your Solar Potential

How much energy your system can generate depends on a number of things. Your installer will look at your roof size and condition, as well as survey the area for any obstructions both current and future. These obstructions include trees, chimneys, and walls that could shade the panels and decrease efficiency. A professional assessment, including the measuring of solar irradiance (how much sunlight falls on your roof), is required to get a good handle on your potential system production.

As the weather varies from year to year, so will production from your solar system. Some years may be sunnier, while others may have more snow. Your installer should be able to offer some averaging factors for this. In addition, your solar system can produce power for well over 20 years, so you will need to take into account any future obstructions of plans you may have. Is that sapling going to be branching over your solar panels in a decade? Are the neighbours planning an addition that will shade your roof? Having a conversation with your neighbours is a good idea before you get started.

Your electricity consumption may change over the years as well. Purchasing an electric vehicle or using your AC system or electric heating will increase your usage.

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You may also be taking measures to reduce your usage by switching to energy efficient appliances or switching your lights to LEDs. These decisions may affect the overall size of your system in the end.

Investing in Sunshine

Installing a solar system on your home is a big investment that pays off over the long run. There are several different ways to tap into the power of the sun. You can purchase a system outright, you can “lease to own” a system, or in some jurisdictions you can participate in what is known as a Power Purchase Agreement (PPA).

Buying your system outright can be a big financial investment, but luckily, there are different incentives and programs that can help decrease the overall cost. Depending on your province and municipality, there can be programs to assist you with the price of buying a system. To view the full and updated list of programs by province, visit CanSIA.ca/gosolar.

If you are not able to put panels on your home or if it doesn't fit your budget, you can explore joining a community power co-op, where members pool their funds to build larger solar systems on everything from school roofs to farm fields. Simply search for a community renewable power co-op for your province.

Lease to Own

Just like you can lease a car, some solar companies will lease you a solar system. However, just like a car lease, it is important to read the fine print. How long will the lease last? What are the buyout options at the end of the lease? How do the monthly payments stack up versus the revenue (savings) you expect to generate with the solar system? What if you decide to sell your house and need to break the lease. You may want a lawyer or financial advisor to review any lease documents before you sign.

If you don't have enough funds in the bank to pay for a solar system, it is also worth considering other financing options like home equity lines of credit. Some banks and installers offer special financing programs. Just be sure to factor in application fees, interest, and monthly fees into your full cost picture.

Power Purchase Agreements

In a power purchase agreement (PPA), the customer and the developer enter a financial agreement in which the developer can install solar panels on the customer's property, often at no cost to the customer, and sell the generated power to the customer at a fixed rate. In addition to the revenues made from selling power, the developer will also receive any tax credits and incentives that the system might be eligible for.

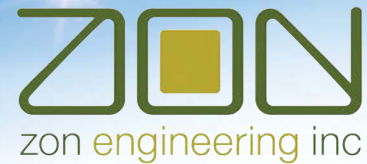
The typical length of the agreement varies, and can range from anywhere between 10 to 25 years, after which the customer can have the system removed, buy the system, or extend the PPA.

Community Generation

Community generation means you have full or partial ownership of energy projects alongside other members of your community. Often found in the form of a solar garden, community generation doesn't require you to put panels directly on your rooftop or property. Instead, a group of people can pool their money together to purchase panels that are installed on another location, such as a school rooftop or an unused lot, or can subscribe to an existing solar garden. There are multiple models for participating in a solar garden including where electricity generated by those panels gets sent back into the grid in exchange for utility credits, which are then divided for use by the solar garden's subscribers.

Pricing it Out

Make sure you get a written quote that covers all aspects of the components and installation, and which makes clear what, if any, costs you will be responsible for on top of the installer's quote.



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Here are some potential additional costs you should discuss with your contractor:

- Costs of stamped engineering drawings and building permits
- Maintenance costs and warranty support
- Application costs for incentives or net metering programs and the cost of assistance with such applications
- Any additional components or materials not included in the package price
- Monitoring equipment or any subscription fees to services that let

you see your system's output in real time
As well, you should consider issues such as:

- Who will pay for temporarily removing and reinstalling the system if your roof needs to be repaired or replaced? (Tip: Always check your roof condition before starting an installation.)
- Will the installation of a solar system have implications for your home insurance, income taxes (revenues from power sales) or property taxes?

Understanding the full cost picture can help you feel a lot more comfortable with your purchase.

Choosing a Contractor

Choosing a contractor can be the most difficult decision in the process of going solar. Luckily, CanSIA makes the process a tad bit easier for you with our Member Directory (CanSIA.ca/gosolar).

When looking for an installer, it is important to check if the company has experience in dealing with local utilities and understands provincial program rules. You will need to ensure that all applications and permits will be properly dealt with *before* you start an installation. If they are not a solar specialist, ask them about their experience in successfully completing solar projects – from permits to final connection.

Always check references for the installer company you work with by speaking with former customers or researching for online reviews. Web reviews and recommendations can also be a great way to find the right contractor for you, but keep in mind that there can often be two very different stories for any kind of review.

You should also ensure that any subcontractors the installer may use have the proper qualifications and the insurance needed to properly complete the work. Remember, work may need to be inspected for electrical or building safety, so it needs to be done right. Ask if their employees or contractors have specialized solar certifications, such as those issued by the North American Board of Certified Energy Practitioners (NABCEP).

Like any big purchase, be sure to get multiple quotes and don't hesitate to ask any questions about experience, components and work plans.

What if something goes wrong?

CanSIA Members are dedicated to providing quality products and customer service, and endeavour to ensure their customers are satisfied. If your solar system is not working as expected, for example, if there are installation issues or other problems, the first step is to call back your installer and try to work



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with them to resolve the issue. This is why it is important to take the time to select a reputable and experienced contractor from the get-go. Look at the remedies available to you under your contract or warranty if you are not satisfied with the contractor's response.

When joining, each new CanSIA Member must abide by our *Solar Business Code of Ethics*, which is why we highly recommend seeking out a CanSIA Member company. This means you will have someone to turn to if there are any issues with your installation that cannot be resolved through your contractor. You can find a list of our Members at CanSIA.ca/gosolar. If something goes wrong in the process and you believe a company has violated the *Solar Business Code of Conduct*, you can take advantage of our Complaint Resolution and Disciplinary Process.

Final Checklist & Questions to Ask

- Have you secured a net metering agreement with your local or provincial utility and received permission to proceed?
- Have you checked provincial electricity rates and understand the rules for banking credits?
- Have you checked references and qualifications for the contractor you have chosen?
- How long has your contractor been in business? Will they be around if something needs fixing in the future?
- Do you have a copy of warranty materials?
- Have you checked your roof condition and are satisfied that it will hold up for the next 20 years?
- How will the contractor be accessing your roof and do you need to make any special arrangements to allow access?
- Are there any structural or electrical conditions you need to address before proceeding with installation?
- Have you and your installer assessed and addressed any potential shading issues, now or in the future, that may affect power production?
- Have you and/or your contractor calculated average annual power output in kilowatt-hours for your


system? This will give you a sense of how large your electricity bill savings will be.

- Is your system sized appropriately for your average annual consumption level? Remember, in most jurisdictions you will not be able to hold on to credits for more than 12 months so oversized systems will not be economic.
- Have you factored in any financing costs (including leasing costs) in calculating your system costs and savings?

- Who will take care of any necessary building or electrical inspections?
- Who will apply for provincial incentives (if available) and what are the rules for accessing these?
- Do you need to inform your insurance company about this new addition to your home?

Glossary of Terms


- **DC:** electricity with a constant positive polarity, the same type of power produced by a common household battery.



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- **AC:** electricity with an alternating polarity, the most commonly used type of power in our homes.
- **Kilowatt (kW):** a measure of how much energy is being produced. Calculated by multiplying the Voltage and Current values of a system.
- **Kilowatt peak (kWp):** used to describe the energy output capability of a solar electric system under ideal solar energy conditions (e.g., during peak times during the middle of the day).
- **Kilowatt hour (kWh):** the amount of power delivered over a period of one hour.
- **Voltage / Volts (V):** the “pressure” created by electrons flowing through a system – the greater the pressure, the more power can be transported in an electrical wire.
- **Ampere / Amps (A):** the measure of how much electrical energy is flowing in an electrical conducting wire.
- **Feed in tariff (FIT):** an agreement where the utility company buys all the power generated from your solar electric system at a set price for a set period of years.
- **Inverter(s)** devices that convert the direct current (DC) electricity generated

by the panels into alternating current (AC) for use in your home or for export to the grid.

- **Modules** individual solar panels that convert sunlight to electricity. Your system will likely be made up of multiple modules.
- **Net metering:** an agreement where the local utility company credits you for the surplus power produced by your solar system that is not consumed in your home.
- **Grid tie:** a system that is connected to the electrical network. This connection type allows excess power to be sent offsite in return for payments/credits from your utility company.
- **Off grid:** solar generation that is not connected to the electricity distribution system; often associated with remote cabins / properties and is typically a seasonal option or requires batteries and/or a generator. ●

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Engineering, Procurement and Construction

Associated Engineering

Edmonton, AB
(780) 451-7666
www.ae.ca
At Associated Engineering, our vision is to shape a better world for future generations by creating sustainable and resilient solutions.

Canadian Projects Limited

Calgary, AB
(403) 508-1560
www.canprojects.com

CIMA+

Calgary, AB
(403) 775-0100
www.cima.ca
CIMA + is a multidisciplinary company specialized in engineering, project management, urban planning, new technologies and environment.

Eclipse Bio-Science Corp

Crossfield, AB
(780) 668-6320
www.eclipse-bio.com
Eclipse is a professional solar contractor based in Calgary, Ab. Our team of competent and experienced Professional Engineers (P.Eng), Certified Master Electricians (CME) and Qualified Tradespersons can offer industry leading turnkey services which include engineering, procurement and construction of solar installations.

Ellis Don

Calgary, AB
(403) 259-6627
www.ellisdon.com
EllisDon is a world-leading construction and building services company that completes in excess of \$3.5 billion worth of contracts annually, in every market sector and across the globe. Over the last 66 years, we've grown from being a general contractor to a multi-faceted company that can deliver any aspect of a project. We design, build, finance, construct, operate and manage anything that can be built. The EllisDon Renewables Team has extensive experience in solar and battery storage construction and has built a number of projects in Canada.

Hardline Engineering Ltd.

Calgary, AB
(403) 703-6076
www.hardlineeng.com
We provide engineering and project execution expertise for all transmission and distribution needs.

Helical Pier Systems Ltd.

Sherwood Park, AB
1-(877) 547-1017
www.hpier.com
We are a forward-thinking foundation solution company that continually strives to improve and innovate, providing effective processes and solutions that allow us to earn the trust of our customers. Our experience and capabilities consistently lead to superior results, and our passion for excellence paves the way to exceeding customer expectations. No matter what the demands of the job may be, HPS will rise to the occasion, adapting to any circumstance and going above and beyond until we find the best foundation solution that works for you. We work closely with customers as their partner and trusted ally, offering service, solutions and advice they can count on.

Whatever the challenge, HPS is built to handle it.

LandSolutions

Calgary, AB
(403) 290-0008
www.landsolutions.ca
LandSolutions is a leader of land and consultation services within the renewable energy industry. Our experts have a complete understanding of today's renewable resource business and a proven track record of acquiring and managing land assets for major international developers. Our dedicated team of experts has vast experience securing option agreements in numerous geographical areas, which allows for a competitive advantage to renewable resource development. They also have a wealth of experience with renewable resource development and construction process, as well as the related transmission upgrades.

McNally Contractors

(2011) Ltd.
Lethbridge, AB
(403) 328-3924
www.mcnallycontractors.com
McNally Contractors, a wholly owned subsidiary of Volker Stevin Canada, is a well-established highly respected general contractor in the City of Lethbridge. Servicing Lethbridge and southern Alberta with a wealth of experience and expertise in projects ranging from \$30,000 to \$30 Million. McNally's in-house capabilities, superior project management by a dedicated team of professional engineers and project managers allows a cross-divisional, team approach to delivering quality products on time and on budget in both the public and private sectors. McNally's extensive gravel facilities, asphalt plants and custom crushing operations lead the industry in southern Alberta.

PS Technologies Inc.

Calgary, AB
(403) 918-8258
www.psti.ca
PSTI strives for providing quality, efficient and reliable professional service in the substation engineering and construction areas for the electric power utilities and industrial plants.

Solar Optix Energy Services

Lethbridge, AB
(403) 329-6834
www.solaroptix.ca
Experienced electrical contractor specializing in PV solar design and installation across Southern Alberta. Residential, commercial and agricultural customers welcome!

Stantec Consulting Ltd

Lethbridge, AB
(403) 332-4858
www.stantec.com
Stantec provides professional consulting services offered through approximately 22,000 employees operating out of more than 400 locations on six continents. We support public and private sector clients at every project stage from initial concept and feasibility to project operation and decommissioning. As a multidisciplinary firm, we provide strategic planning; environmental consulting; project design; civil, structural, geotechnical and electrical engineering; surveying; and project and construction management services to the renewables industry.

Tekpower Energie Inc

Edmonton, AB
(780) 267-9801
www.tekpowerenergie.com
We are a global leader in the application and dissemination of emerging and sustainable alternative energy technologies.

WSP

Calgary, AB
(403) 248-9463
www.wsp.com
WSP is a multi-disciplinary engineering and environmental services firm with over 5300 employees across Canada. For renewable energy projects, including solar PV, we provide services for resource assessment, feasibility studies, electrical interconnection assessments, REA, geotechnical, engineering and approvals. We have been involved with over 40 solar PV projects in Ontario.

Government Body, Agencies or Public Sector

City of Medicine Hat

Medicine Hat, AB
(403) 529-8288
www.medicinehat.ca

Not-For-Profits and Community Groups

Blue Mountain Power Co-op

Rocky Mountain House, AB
(888) 845-4616
www.bluemountainpower.coop

Solar Energy Society of Alberta

Edmonton, AB
(780) 443-7788
www.solaralberta.ca

Southern Alberta Alternative Energy Partnership

Pincher Creek, AB
(403) 627-0244
www.saaep.ca

Research and Consulting Services

Altus Group Limited

Toronto, AB
(416) 641-9500
www.altusgroup.com/
Altus Group provides real estate consulting expert services to the renewable energy sector. Our focused approach includes property tax, geomatics/survey, appraisal, cost and project management.

Peters Energy Solutions

Calgary, AB
(403) 875-8984
www.petersenergy.com
Peters Energy Solutions is an electric utility consulting company specializing in project development, grid connections, revenue and tariff cost optimization.

Solas Energy Consulting Inc.

Calgary, AB
(403) 454-9463
www.solasenergyconsulting.com
Solas Energy Consulting provides renewable energy solutions. Our expertise spans project development, construction management, business services, and climate change policy analysis.

Retailer/Installer



AltaPro Electric

Edmonton, AB
(780) 444-6510
www.altapro.ca
As electrical industry leaders for over 30 years, AltaPro is Alberta's one-stop-shop for all Solar Installations and electrical services. From concept to completion and a service fleet offering customer service 24/7 after the installations, we pride ourselves in capturing each client's specific needs. Whether it be residential grid-tie micro generation, or large scale projects requiring underground excavation & ground mounted panels, AltaPro Does it All!



CVE Solar

Calgary, AB
(403) 279-6661
www.crestviewgroup.com
CVE Solar - A Division of Crestview Group - is a Calgary based electrical contractor with 30 years experience serving Alberta, Saskatchewan, and British Columbia.

Dandelion Renewables

Edmonton, AB
(780) 566-6058
www.dandelionrenewables.com
Provider of solar, wind and power conservation solutions. Specializing in feasibility studies, grid-tie and off-grid systems designs and installations.

Empower Energy Corp.

Grande Prairie, AB
(780) 532-3610
www.empowerenergy.ca
Providing solar PV design, sales and installation to Western Canada. "Our business is solar, our passion is people"

Endless Green Energy

Edmonton, AB
(587) 594-8873
www.endlessgreenenergy.com
We are a Canadian owned solar installer, specializing in residential and commercial installs.

Eneray Solar

Waskatenau, AB
At Eneray Solar our #1 priority is Customer Satisfaction and we strongly believe in the highest standards of safety & quality and we are dedicated to helping Albertans use solar electricity in their homes and businesses.

Our systems are reliable, safe, durable and meet all code and regulatory requirements. We put forth all efforts to ensure service and materials exceed customer expectations for their solar investment.

We have the expertise and resources to ensure your system adequately meets your needs for renewable energy by providing Grid-Tie and Off-Grid PV solar systems. Eneray Solar only uses trained installers and certified electricians for key positions on our projects.

Evergreen and Gold Renewable Energy

Edmonton, AB
(780) 429-4731
www.evergreenandgold.ca
Evergreen & Gold is a full service solar power provider specializing in grid-tied systems. We provide the design, installation and ongoing service for a solar PV power system. We will site your project, get all necessary permits and approvals, arrange all engineering approvals, check for grants and rebates, and install a system on your site. We can assist with agricultural, commercial and residential solar energy needs.

KCP Energy Inc.

Calgary, AB
(403) 800-3107
www.kcpenergy.com
KCP Energy is a Solar Design and Installation EPC company servicing Southern Alberta and points beyond. Founded in 2007, our mandate is to help create sustainable communities by providing education and highly efficient clean-energy solutions. Over our 12 years of delivering innovative, turnkey solar energy solutions in Alberta. KCP Energy is an experienced full service provider of sustainable solar PV solutions. KCP Energy has installed well over two hundred residential systems as well as three of the largest commercial rooftop systems in Southern Alberta. We specialize in residential rooftop, ground mount and mid to large scale commercial rooftop solar systems.

Phase 3 Electric

Ponoka, AB
(403) 783-2199
www.phase3electric.ca
Phase 3 Electric Ponoka Ltd. is a full service electrical contractor specializing in Solar supply and installation

SkyFire Energy Inc.

Calgary, AB
1 87-SKYFIRE-1
www.skyfireenergy.com
SkyFire Energy is Western Canada's leading solar contractor providing turnkey residential, commercial and utility scale solar PV systems. SkyFire Energy has the best trained staff in the industry with Professional Engineers, Photovoltaic Technicians and CSA certified Construction Electricians (NOC 7241) in Solar Photovoltaic Systems on staff.

Solarwind Renewable Energy Inc

Lethbridge, AB
(403) 329-0159
www.solarwind.energy
Solarwind Renewable Energy is passionate about the environment and we believe that solar energy will become one of the largest, if not the primary source of energy for this part of the Alberta.

Sublime Industries Ltd.

St. Albert, AB
(780) 459-9520
www.sublimeltd.com
Sublime Industries is specialty construction company servicing western Canada, shifting into design and construction of smart, sustainable, salubrious homes. Providing full new design, construction and renovation services for people looking to move into the Net Zero space. We also provide solar design, supply and installation as well as electric car charging stations.

Terralta Inc.

Medicine Hat, AB
(403) 488-0404
www.terralta.net
Terralta Inc. offers full service plumbing and mechanical services including renewable energy systems- Geothermal, Solar PV, Solar Thermal and High-Efficiency Systems.

The Force Solar Inc.

Duchess, AB
(403) 826-3512
www.theforcesolar.com

Solar Equipment Manufacturing

Bluenergy Solarwind Canada Inc.

Medicine Hat, AB
(575) 770-5110
www.bluenergyusa.com
Bluenergy Solarwind Inc. is a renewable new energy company. We design, develop, and sell on-site distributed energy systems.

Solar Equipment Supply

Alta Solar Solution

Edmonton, AB
(780) 604-8167
Alta Solar Solution is a new business.

Our main focus is:

Solar equipment and parts importing and wholesale, as well as farming and First Nations community Solar project consulting, management and investment.

G2 Solar

Edmonton, AB
(877) 537-6527
www.g2solar.com
We are leading Canadian wholesale RE distributor of high quality Off-Grid and Grid-Tie products. Products include solar panels, racking, inverters, batteries, battery enclosures, Lighting, charge controllers, wiring, combiners and fuses. We have 2 warehouses in Canada to serve you better. Calgary Alberta and Edmonton Alberta.

National Solar Distributors Inc.

Edmonton, AB
(844) 851-2390
www.nationalsolar.ca
National Solar Distributors Inc. is a wholesale distributor of solar PV system components with warehouses in Alberta and Ontario, providing service across Canada. We carry residential and commercial grid-tie products, as well as products for industrial and small off-grid applications.

With over sixty years of combined experience, we understand the challenges of the market and have made it our mission to provide high-quality, reliable and innovative products with honest and friendly service. We proudly employ trained solar individuals with a background in renewable energy.

Edmonton, Alberta,
4703 - 101 Street NW, T6E 5C6
Toll Free:1-(844) 851-2390

Stratford, Ontario,
1172 Erie Street, N4Z 0A1
Toll Free:1-(844) 851-2390

Utilities, Distribution, Transmission and Regulation

Altalink

Calgary, AB
(403) 267-3414
www.altalink.ca

ATCO Group

Calgary, AB
(403) 209-6945
www.atco.com
With nearly 7,000 employees and assets of approximately \$22 billion, ATCO is a diversified global corporation delivering service excellence and innovative business solutions in Structures & Logistics (workforce housing, innovative modular facilities, construction, site support services, and logistics and operations management); Electricity (power generation, distributed generation, and electricity distribution, transmission and infrastructure development); Pipelines & Liquids (natural gas transmission, distribution and infrastructure development, natural gas liquids storage and processing, and industrial water solutions); and Retail Energy (electricity and natural gas retail sales).

ENMAX Corporation

Calgary, AB
(855) 514-3279
www.enmax.com/homesolar
ENMAX Corporation, through its subsidiaries, makes, moves and sells electricity in Alberta. ENMAX Energy Corporation owns diverse electricity generation facilities throughout the province, and offers Albertans turn-key solutions to generate renewable energy for their homes or businesses, with purchase and lease options so you can own your array outright or spread the cost over the term of the lease.

EPCOR

Edmonton, AB
www.epcor.com
EPCOR Utilities Inc. provides clean water, wastewater services and safe, reliable electricity to residential and commercial customers. We build, own and operate electrical transmission and distribution networks, and water and wastewater treatment facilities and infrastructure in both Canada and the United States.

FortisAlberta Inc.

Calgary, AB
(403) 514-4000
www.fortisalberta.com
Our goal is to make sure your Distributed Generation and Micro-Generation projects are connected safely and efficiently. We deliver safe and reliable electricity service to more than 60 per cent of Alberta's total electricity distribution network. That's electricity to 553,000 residential, farm and business customers like you from across central and southern Alberta. We operate in 200 communities with more than 123,000 kilometres of power lines.

BRITISH COLUMBIA

Builder/Developer

Aura Power Renewables Ltd

Vancouver, BC
(441) 172-141982
www.aurapower.ca
Aura Power Renewables is a joint-venture between Aura Power, a UK-based solar and storage developer and ib Vogt, a Germany-based solar EPC and development specialist. We have over 400MWp of solar PV projects under development in Alberta.

innogy Renewables Canada Inc.

Vancouver, BC
(492) 011-214382
www.innogy.com
innogy SE is the sole shareholder of innogy International Participation N.V., which owns 100% of the shares of innogy Renewables Canada Inc. (innogy RC). innogy SE is Germany's leading energy company, with revenue of around CAD 65 billion (2016), more than 40,000 employees and activities in 16 countries across Europe.

Solar Flow-Through Funds

Vancouver, BC
(647) 725-3822
www.solarflowthrough.com
Solar Flow-Through Funds are a developer/owner/operator of renewable energy projects in Canada with an emphasis on solar PV projects. They have over 50 operating projects and over 100 under development.

Engineering, Procurement and Construction

Elemental Energy Renewables Inc.

Vancouver, BC
(604) 648-6630
www.elementalenergy.ca
We accelerate the transition to a clean energy economy by investing in, developing, and managing renewable energy projects that generate long-term value for our shareholder, our partners and the planet.

Research and Consulting Services

Energy Canvas LTD

Richmond, BC
(604) 288-7557
www.energycanvas.com

Retailer/Installer

● **Blue Pond Solar**

Vancouver, BC
(888) 260-0302
www.bluepond.ca
BluePond Solar is an end-to-end service provider of high-quality grid-connected and off-grid solar PV services and installations. BluePond also offers energy-management services, such as energy audits and energy-savings projects. Servicing BC and Alberta, BluePond delivers robust solutions combined with leading technology for residential and commercial customers.

● **Hakai Energy Solutions Inc**

Cumberland, BC
www.hakaienergy.com
HAKAI Energy Solutions specializes in microgrids and advanced integration of renewable energy products in off-grid applications. We help businesses and communities achieve their goals of reduced diesel consumption, lowered energy costs, energy independence and reliability. Other services include installation of grid tied solar energy systems for homes and business and custom modular containerized systems for remote deployment. HAKAI serves the Vancouver Island and Central Coastal region, and the Province of BC.

● **Okanagan Solar Ltd**

Kelowna, BC
(250) 801-9464
www.oksolar.ca
Okanagan Solar Ltd (2009) is a family owned and operated company serving Canada and beyond with solar PV systems.

● **Powermax Electrical & Solar**

Penticton, BC
(250) 276-4380
www.powermaxltd.ca
Powermax Electric & Solar is made up of a highly qualified team in the electrical and Solar industry.

● **Stardust Solar Technologies Inc.**

Burnaby, BC
(604) 620-6733
www.stardustsolar.com
We offer certified solar installation training and also solar energy installation services for home or business.

● **VREC Solar**

Vancouver, BC
(778) 869-8333
www.vrec.ca

Solar Equipment Supply



Amray Solar

Burnaby, BC
(604) 559-4998
www.amray.solar
Amray Solar is a multi-million-watts solar equipment distributor in Western Canada. Our warehouse is located in a central area of Greater Vancouver with easy access to highway 1. Our main stocks include APSystems' micro-inverter, Huawei's commercial string inverter and residential optimizer with battery backup functionality, SunModo's rooftop and ground racking system, and several manufactures' solar panels, etc. Continuously, we look for the latest technologies and products for the growing market. We offer the best price in the market with supportive services to our clients. After 5 years of business, we've established close business partnerships with local installers, and communities. Our goal is to make solar energy more affordable for everyone. Together, we build a sustainable planet for generations.

HES PV

Victoria, BC
(866) 258-0110
www.hespv.ca
HES PV is a wholesale distributor of solar electric equipment in Canada. With three warehouses across the country and 30 years of growth and success, HES has both the capacity and the knowledge base to deliver your solar project on time and on budget.

MANITOBA

Retailer/Installer

● **123 Zero Energy**

Winnipeg, MB
(204) 977-3111
www.123zeroenergy.com
123 ZeroEnergy provides affordable Green Energy Solutions including solar PV, solar thermal, geothermal and cold weather heat pumps. We help customer reduce their energy bill and help them to their goal of a zero energy home.

● **Sycamore Energy Inc.**

Winnipeg, MB
(204) 691-7775
www.sycamoreenergy.com
Sycamore Energy Inc. is an established developer of residential, commercial and agricultural solar photovoltaic projects. Whether your home needs a 10kW system, your farm needs a 500kW system or your condominium corporation requires a 200kW system, Sycamore Energy Inc. is here to provide you with accurate and timely information.

Solar Equipment Supply



HSE Solar Energy

Ile Des Chenes, MB
(204) 809-8933
www.BeBrightGoSolar.com
We efforts to bring right products for you. High quality is a start, and the best value is the achievement. Generate more, maintenance less, last longer!

Solar Solutions Canada Inc.

Winnipeg, MB
(800) 285-7652
www.solarsolutions.ca
Solar Solutions specializes in renewable energy system design, engineering and distribution. Solar Solutions Inc. manufactures and distributes a comprehensive line of renewable energy systems and products along with energy conservation devices to minimize total project capital costs and maximize technological and systemic efficiencies.

Our expertise in Photovoltaics and Power Conversion Devices, coupled with our comprehensive line of Conservation Devices ensures that you receive the greatest value possible from your system purchase.

NEW BRUNSWICK

Utilities, Distribution, Transmission and Regulation

NB Power

Fredericton, NB
(506) 458-4886
www.nbpower.com

NEWFOUNDLAND & LABRADOR

Retailer/Installer

● **Newfound Energies Inc.**

Portugal Cove St. Phillips, NL
(709) 895-6626
www.nfenergies.com
Sales, Design and Installation of Renewable Energy Systems, Wind & Solar Power. New Patented Fibreglass Wind Turbine Tower Technology.

NOVA SCOTIA

Builder/Developer

Natural Forces

Halifax, NS
(902) 422-9663
www.naturalforces.ca
Natural Forces delivers community scale RE projects across Canada. We develop, construct, own, and operate Wind, Solar, & Small Hydro projects.

One Wind Services Inc

Darmouth, NS
(902) 482-8687
www.onewindinc.com
We are an independent service provider offering professional Construction and O&M Services for the renewable energy industry.

Engineering, Procurement and Construction

Solar Global Solutions

Halifax, NS
(902) 876-2834
www.solarglobalsolutions.com
Solar Global Solutions (SGS) is private company founded in 1988 in Halifax, Nova Scotia. SGS has over 30 years of experience successfully developing projects for residential, commercial, institutional, First Nations, government, and utility clients. SGS' multi-disciplinary team delivers turn-key Engineering, Procurement, and Construction (EPC) and Operation and Maintenance (O&M) services for both grid-tied and off-grid renewable energy projects.

Government Body, Agencies or Public Sector

Nova Scotia Department of Energy and Mines
Halifax, NS

Not-For-Profits and Community Groups

EfficiencyOne

Dartmouth, NS
(877) 999-6035
www.efficiencyns.ca

Retailer/Installer

● Appleseed Energy Inc.

West Arichat, NS
(902) 227-8220
www.appleseedenergy.com
We specializes in Solar PV and have installed hundreds of grid-tied and off-grid systems in Nova Scotia since 2009 both industrial and residential.

● AZTEK SOLAR LTD

Fall River, NS
(902) 407-7778
www.azteksolar.net
Aztek Solar Ltd is a renewable energy company specializing in solar hot water, solar electrical, solar pool heating and solar space heating.

● Benoit Electric Limited

Beechville, NS
(902) 876-0904
www.benoitelectric.ca

● Graybar Canada

Halifax, NS
(519) 576-4050
www.graybarenergy.com
Graybar Energy Ltd., headquartered in Kitchener, Ontario, is a domestic content compliant supplier for electrical balance of system components for renewable energy projects. Leveraging Graybar Canada's vast network of branches and warehousing, Graybar Energy is a key supplier to projects all across the country. Graybar Energy has proven experience supplying components to jobs varying in size from the microFIT level all the way through utility scale renewable energy farms. A key component in Graybar Energy's suite of renewable energy offerings is its access to Graybar's national wire & cable warehouse located in Markham, Ontario. With more than 40,000 square feet of warehouse space and the ability to cut master reel's up to 15,000 lbs, the national wire and cable warehouse is a key part of Graybar Energy's operations.

● SKYLIT

Kentville, NS
(902) 812-1050
www.skylit.ca
We offer turnkey solutions for solar PV, including financing and installation, and our financing rate is lower than PACE programs like Solar City Halifax. Our unique approach makes it easy to go solar!

● Solar Ascent

Halifax, NS
(902) 225-3905
www.solarascent.ca
Solar Ascent specializes in designing and installing solar energy systems for homeowners and businesses in Nova Scotia.

Solar Equipment Manufacturing



BATTERY ENGINEERING

Rolls Battery Engineering

Springhill, NS
(902) 597-4012
www.rollsbattery.com
Established in 1935, Surrette Battery Company Limited is proud to be one of North America's leading lead-acid battery producers and Canada's only remaining independent battery manufacturer. Located in Springhill, Nova Scotia, we produce a wide range of Rolls-branded premium deep cycle batteries for use in Renewable Energy, Marine, Motive Power and Railroad applications. Rolls flooded & sealed AGM & GEL products are internationally recognized for their dependability, outstanding quality and industry-leading manufacturer warranties.

Solar Equipment Supply

Rexel Canada Electrical Inc. - Atlantic Division

Dartmouth, NS
(902) 482-1550
www.atlantic.rexel.ca
Rexel Atlantic offers photovoltaic solutions that includes a comprehensive range of innovative products – panels, inverters, installation structures and connection accessories – for easy installation. Its added-value benefits also include technical and sales support for installers, with dedicated teams, a specialized brand (Rexel Energy Solutions) and a specific commercial offering.

Utilities, Distribution, Transmission and Regulation

Nova Scotia Power

Halifax, NS
(902) 428-6230
www.nspower.ca

ONTARIO

Builder/Developer

Alderville Solar Limited Partnership

Roseneath, ON
(905) 352-3187
www.alderville.ca

Amp

Port Credit, ON
(905) 271-7800
www.amp.energy
Amp is a global developer of flexible clean energy infrastructure. We build, own and operate clean energy assets that allow us to provide dispatchable, affordable and resilient power, enhancing system reliability and security for our customers and the grid.

CanPower Renewables Corp.

Kingston, ON
(613) 888-0466
www.canpowerrenewables.com
CanPower Renewables corp. is a renewable energy developer based in Ontario, pursuing opportunities throughout Canada. CanPower is also active in the Caribbean, with a primary focus being utility scale groundmount solar PV systems.

CarbonFree Technology Inc.

Toronto, ON
(416) 975-8800
www.carbonfree.com
CarbonFree is a recognized leader in the development and financing of solar projects across North America and internationally, with offices in Toronto and Santiago, Chile. We have successfully commissioned more than 425 MW of solar projects and have a further 200 MW currently in development. CarbonFree has also established several innovative solar financing funds that are long-term owners of many of our projects.

Connor, Clark & Lunn Infrastructure

Toronto, ON
(416) 360-7382
www.ccigroup.com
CC&L Infrastructure invests in energy infrastructure assets and companies including power generation (e.g. hydro, wind, solar), electricity transmission, energy conservation, district heating and cooling, natural gas processing and transportation and other similar assets. With energy requirements continually growing along with increasing demand for renewable power, we view energy infrastructure projects as attractive investment opportunities.

EDF Renewables

Toronto, ON
(416) 363-8380
www.edf-en.ca
EDF Renewables Canada Inc. ("EDF RC"), an EDF Renouvelables company, is a Canadian market leader in renewable electricity generation with 1.9GW of renewable energy projects in varying stages of development, construction and operation. Our entire Canadian portfolio represents an investment of more than \$3.5 billion; over 3,000 construction jobs; and enough electricity to power 425,000 homes.

ENGIE Development

Canada LP
Markham, ON
(647) 530-6902
www.engie-na.com
ENGIE, a global energy leader with a presence in over 70 countries, has been active in Canada since 1998. Engie is a North American expert in clean energy generation, storage, LNG, retail services and facilities management. Engie serves private businesses, universities, hospitals and governments. In Canada, we deliver over 800MW of renewable generation.

Essex Energy Corporation

Oldcastle, ON
(888) 66-ESSEX
www.essexenergy.ca
Essex Energy Corporation is a highly experienced energy technology company focused on delivering innovative solutions to power generation, metering & settlement, and community conservation/demand management. More specifically, Essex Energy develops and maintains solar photovoltaic ("PV") facilities, performs a vast array of energy consulting, and develops energy and distribution related software.

Gilchak Holdings

Ottawa, ON
(613) 232-1143
Land Development

Grasshopper Solar Corporation

Mississauga, ON
(866) 310-1575
www.GrasshopperSolar.com
Grasshopper Solar is among the most experienced rooftop and ground-mount solar installation companies in Ontario, and is the recipient of the Canadian Solar Industries Association's Solar Innovator Award. In addition to delivering turnkey power solutions to homeowners, farmers, public schools, institutions, municipalities and large corporations, the company owns and operates its own fleet of solar electric systems. Grasshopper Solar is the only company in Canada with proprietary, state-of-the-art software that helps deliver superior quality photovoltaic generation systems designed to last a lifetime.

Invenery Solar Canada ULC

Toronto, ON
(416) 901-9463
www.inveneryllc.com
Invenery drives innovation in energy. Invenery and its affiliated companies develop, own, and operate large-scale renewable and other clean energy generation and storage facilities in the Americas and Europe. Invenery's home office is located in Chicago and it has regional development offices in the United States, Canada, Mexico, Japan and Europe.

Lh Solar Inc.

Markham, ON
(416) 902-9836
www.lhsolar.ca
As a wholly owned subsidiary of Beijing Huaxin Liuhe Investment Co Ltd. which was founded in 2001, Canadian Huaxin Liuhe Trading, Ltd. is a solar energy company based in Ontario. We are committed to providing complete solar solutions for farms, commercial and residential markets with our proud brand: Zeus Appollo Solar.

Northland Power

Toronto, ON
(416) 962-6262
www.northlandpower.ca
Northland Power Inc. is an industry-leading independent power producer. Our success and continuing growth focus on using our financing capabilities, engineering resources and operating expertise to their fullest in the design and development of new projects and in the operation of our existing plants.

Oakville Enterprises Corp

Oakville, ON
(905) 825-7876
www.oecorp.ca
Develop, owner, operate of distributed, renewable and high-efficiency generation plants.

Panasonic Eco Solutions Canada Inc.

Mississauga, ON
(905) 624-5010
www.panasonic.ca/english/solar
Panasonic Eco Solutions Canada Inc. is the Canadian arm of a global team within Panasonic Corporation. Panasonic is a market leader in the deployment of renewable energy systems in Canada and our mission is to develop new and innovative solutions to address the needs of a rapidly changing energy environment. Our core customer advantage is to provide reliable, full service, market ready solutions enabling all the required elements for renewable solar and energy storage initiatives, including financing and long term system performance. Panasonic is a highly recognized global brand with considerable annual commitments to R&D and is financially stable with significant market capitalization. With the strength of over 270,000 employees worldwide, the company has a distinct ability to fulfill its long term commitments thereby allowing customers access to superior low cost financing, long term assurance and risk mitigation that facilitates long term, return on investment objectives.

Perimeter Solar Inc.

Kincardine, ON
(519) 385-5500
www.perimetersolar.ca
Perimeter Solar Inc. (PSI) is a Canadian based solar PV project development company. In 2017, PSI formed a JV with Obton A/S (Obton), a Danish based fund manager and a top ten percentile solar PV owner/operator in the EU. PSI is actively developing and pursuing renewable energy assets in Canada and US.

Potentia Renewables Inc.

Toronto, ON
(416) 703-1911
www.potentiasolar.com
Potentia Solar is an Independent Power Producer in Ontario generating electricity through its own 100% solar-powered energy systems. Leasing rooftops from commercial property owners, we develop, own and operate solar photovoltaic energy systems. It's a risk-free, hassle-free and lucrative way to harness an otherwise nonperforming asset while doing something meaningful for the environment.

Prowind Inc.

Hamilton, ON
(905) 528-1747
www.prowind.com/us/
Prowind Inc. provides the development of locally-owned clean energy projects in partnership with community groups, businesses, municipalities, and indigenous communities.

Samsung Renewable Energy Inc.

Mississauga, ON
(905) 285-1938
www.samsungrenewableenergy.ca
Samsung Renewable Energy is creating clean, renewable energy for generations to come. Together with our partners, Samsung is making a \$5-billion investment in Ontario to create the world's largest cluster of wind and solar power. Our investments will create 900 direct renewable energy manufacturing jobs and 9,000 high-skilled jobs in Ontario. Built on Samsung C&T's commercial and technical expertise and the success of its renewable energy projects in several countries - including the United States and Europe - Samsung is creating real jobs, through real investment, benefitting real people.

Solar Kapuskasing Solaire Inc

Kapuskasing, ON
(705) 337-4253
www.kapuskasing.ca
A municipally owned enterprise, Solaire Kapuskasing Solar Inc. owns and operates a number of projects throughout the province of Ontario. With the vision of providing some long term revenue to the Municipality of Kapuskasing and it's partners, Solaire Kapuskasing Solar Inc actively searches for opportunities within the energy sector.

Solar Power Network

Toronto, ON
1.(888) 737-0408
www.solarpowernetwork.ca
Solar Power Network can design, build and operate commercial industrial solar installations on rooftops, carports, green space. We operate in Canada, Australia, Japan, United States.

Solera Sustainable Energies Company Limited

Pickering, ON
(905) 421-0430
www.soleraenergies.com
Since 1991 Solera has been a leader in renewable energy, now offering solutions in Energy Storage an EV Charging.

Spark Power Corp.

Oakville, ON
(905) 829-3336
www.sparkpower.ca
Spark Power is a leading integrated power solutions company serving more than 6,500 industrial, commercial, and institutional customers across North America.

Tri-Canadian Energy Power Corporation

Belleville, ON
(613) 962-6111
www.tricanadianenergy.com
Tri-Canadian Energy is an engineering consulting firm that provides clients with renewable energy engineering services for energy related projects.

Education Institutions and Training Providers

Fanshawe College

St. Thomas, ON
(519) 633-2030
www.fanshawec.ca

North American Solar Academy

Webbwood, ON
(705) 862-0469
www.nasacademy.com

St. Lawrence College of Applied Arts and Technology

Kingston, ON
(613) 544-5400
www.sl.on.ca

York University

Toronto, ON
(647) 705-5383
www.yorku.ca

Engineering, Procurement and Construction

Alectric Solar Inc.

Mississauga, ON
(905) 670-9097
www.allectric.ca
We're the people who make solar work.

Alectric delivers renewables and efficiency improvements to commercial / industrial clients.

As a full service EPC contractor specializing in large scale roof mount and ground mount solar energy systems, we perform on budget and deliver on time. Our reputation as the most efficient and cost-effective solar EPC provider has won us a loyal following of satisfied solar developers. We "get the job done" and our clients love us for it. Our constant drive to improve construction efficiencies allows us to pass on a competitive advantage to our solar developer clients.

As of October 2018, Alectric is expanding with the addition of a new business unit - Alectric Efficiency. With the same focus on our clients that we bring to the world of solar EPC contracting, Alectric Efficiency delivers the most innovative and cost-effective retrofit solutions for commercial industrial electricity users including commercial battery storage, circuit level energy metering and monitoring, and intelligent AC and chiller controls. Alectric Solar + Alectric Efficiency is a powerful combination which allows us to take a holistic approach to energy. Together we can help our clients to maximize their own profitability through power generation plus the greatest possible reduction in hourly electricity consumption and Global Adjustment charges.

Alltrade Industrial Contractors

Cambridge, ON
(519) 240-3435
www.alltradeindustrial.com
Alltrade has four divisions to serve the corresponding sectors: Industrial Services, Energy & Utilities, Automotive and Fabrication. Within each of these divisions is a team of experienced estimators, coordinators, project managers, site superintendents and certified trades to support your project. Having grown to over 300 employees with a comprehensive fleet and equipment catalogue to match, Alltrade has the capability to handle a broad range of project sizes, including solar development projects, large volume custom fabrication scopes, complete turnkey plant relocation and high production maintenance projects.

Ameresco Canada Inc.

Richmond Hill, ON
(416) 512-7700
www.ameresco.ca
Ameresco, Inc. (NYSE:AMRC) is a leading energy efficiency and renewable energy solutions provider serving North America and the United Kingdom. Our energy experts deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy, supply management, and innovative facility renewal all with practical financial solutions.

Apricity Renewables Inc

Peterborough, ON
(647) 622-5313
www.apricityrenewables.com
Apricity is an award winning firm specializing in engineering services for solar and storage projects with 100MW+ of C&I experience.

Black & McDonald Limited

Scarborough, ON
(647) 749-0836
www.blackandmcdonald.com/
Black & McDonald is one of Canada's largest integrated, multi-trade construction and site operations and maintenance providers. Self performance of all technical disciplines ensures the owner and lender of the highest degree in technical continuity and accountability. At over 200MW's of Solar PV constructed in Ontario since 2010, Black & McDonald possess some of the most capable and experienced resources in the market and an intimate understanding of installation challenges that drives continuous improvement, innovation and best practices on behalf of our customers.

Borea Construction ULC

Toronto, ON
(647) 252-0417
www.boreaconstruction.com
Borea Construction ULC is the leading EPC contractor in renewable energy construction in Canada with over 4,000 MW of projects completed and under construction (30% of all renewable projects in Canada). Our organization has never missed a commercial operation date. We deliver EPC services for utility-scale PV, CPV, and CSP solar projects. We have constructed concentrated photovoltaic (CPV) systems and photovoltaic (PV) systems (monocrystalline, polycrystalline, and thin film) mounted on fixed and single-axis tracking systems.

Equitec innovations Inc.

Stouffville, ON

GP JOULE

Toronto, ON
(416) 907-0408
www.gp-joule.com
GP JOULE Americas is a subsidiary of GP JOULE GmbH, a diversified renewable project developer and EPC headquartered in ReuĀfĀenkĀfĀige, Germany with offices across Europe, the US and Canada. The Americas team is focused on solar project co-development as well as full turnkey EPC services for the North and Latin American markets. Headquartered in Toronto, Ontario, Canada with a satellite office in California, GP JOULE specializes in ground mount PV installations for both commercial and utility scale projects and offers unique solutions in short and long term project financing.

Great Circle Solar Management Corporation

Toronto, ON
(416) 365-5052
www.greatcirclesolar.ca
Great Circle Solar Management Corporation ("GCS") is a specialized, independent provider of comprehensive solar management and operational services to leading institutional investors, with \$2.5Bn or 430MW+ in operating solar assets under management in Canada. This includes 31 utility-scale ground mount facilities (10 MW+), and 125+ commercial and industrial rooftop systems.

N-Sci Technologies Inc.

Sault Ste. Marie, ON
(705) 949-1033
www.nsci.ca
N-Sci Technologies Inc. is an energy industry focused firm providing a broad range of professional engineering and technical services. N-Sci is licensed to provide engineering services in both Ontario and Alberta and is a registered MSP in Ontario. We are very proud of our recent accomplishments: designed over 220 MW of solar installations; first 1000 VDC collector system design approved by ESA; designed, installed and commissioned 20 embedded generator metering systems for several LDC's. The unique blend of utility, industrial, technical, environmental and financial skills within our team produces a creative approach to developing successful energy solutions that work for our clients.

NLS Engineering

Stoney Creek, ON
(800) 369-0213
www.nlsengineering.com
We help companies large and small get ahead in a fiercely competitive renewable energy sector with modern, robust and powerful SCADA automation systems. As a vendor agnostic firm, we work with utilities, developers and EPCs where our ultimate goal is to find the best solution for all stakeholders. Our extensive knowledge of design, commissioning, plant control, and grid support in both C/I and utility scale space includes storage + solar applications and is leveraged by some of the largest producers of renewable energy in the world.

PCL Constructors Canada Inc.

Oakville, ON
(905) 276-6000
www.pcl.com
PCL's Solar Energy construction professionals provide you with quality energy solutions designed to power the future. Our extensive experience in the EPC delivery method allows us to provide you with a single sources contract; this minimizes the administration process and maximizes the efficiency and quality of the finished installed product.

Quadra Power Inc.

Ottawa, ON
(613) 454-5480
www.quadrapower.ca
A solar engineering, procurement and construction (EPC) company, specializing in commercial rooftop and ground mounted solar projects, with team experience of over 100 MW.

RESCo Energy Inc

Mississauga, ON
(416) 361-0752
www.rescoenergy.com
RESCo Energy is Ontario's first solar focused Engineering, Procurement, Construction and Maintenance (EPCM) firm. Since 2006, RESCo has become one of the most experienced solar service providers in the market. Our experience and bankability make RESCo uniquely positioned to provide turnkey solar solutions to our clients. RESCo is a licensed electrical contractor and consulting engineering firm with a full staff of experienced electricians, engineers and professional solar installers. Full in-house solutions means a single point of accountability throughout the life of your project, from the start of development through to ongoing asset management. Our ability to manage long term operations and maintenance as well as our ability to directly control safety, quality and production schedules means that RESCo projects are truly built to mitigate risk for the life of your project. From opportunity to clean energy generation, RESCo is Your Green Energy Partner™.

UGE Canada

Toronto, ON
(416) 789-4655
www.ugei.com
UGE Canada is an Ontario based company that specializes in commercial solar and energy storage solutions. With more than 630 projects completed and 375MW of experience, UGE is a trusted partner for development, net metering, turn-key EPC projects, and engineering services. UGE is well known for their world-class in-house engineering team.

Zon Engineering Inc.

Cambridge, ON
(888) 338-6363
www.zonengineering.com
Zon Engineering Inc. specializes in building renewables and renewable buildings. Zon is made up of a team of professionals unparalleled in the field for its depth of knowledge, breadth of skill, and overarching professional integrity. Since its inception, Zon has engineered over 400 systems, and provided review services for another 350 systems. Their portfolio totals over 150 MW of rooftop solar projects. Zon provides best-in-class engineering services to the solar industry, including engineering design, commissioning and testing, as well as third party inspection services (Owners Engineer, IE Certificate for IESO, and Lenders Engineer reviews).

Financial Services

CoPower Inc

Toronto, ON
(647) 560-0588
www.copower.me
CoPower provides financing to renewable energy and energy efficiency projects in North America. We focus on distributed projects that often face challenges raising funds from traditional lenders due to smaller transaction sizes or complex structures.

CWB Maxium Financial Inc.

Richmond Hill, ON
(905) 780-6150
www.cwbmaxium.com
CWB Maxium Financial is a CWB Group company and offers creative structured financing that responds directly to the specific needs of each customer.

PearTree Canada

Toronto, ON
(416) 613-3848
www.peartreecanada.com
Innovators of Flow Through Share Donation Financing. Uniting the Canadian resource and charitable sectors.

Government Body, Agencies or Public Sector

City of Toronto

Toronto, ON
(416) 395-6297
www.toronto.ca

Insurance

Hugh Wood Canada Ltd.

Toronto, ON
(416) 229-3233
www.hwcanada.com
Hugh Wood is a global Insurance Broker and Risk Management firm. We are engaged in supporting the solar industry in Canada and worldwide to ensure a responsible sustainable and robust industry for the future. We are experienced in not only standard insurance placements for real & virtual property, liability and executive protection, but also well versed in warranty and performance guarantee placements. With over 1000 MW of renewable energy placements, our expertise and knowledge of your space is unmatched.

Legal Services

Aird & Berlis LLP

Toronto, ON
(416) 865-7705
www.airdberlis.com
Aird & Berlis is a full-service business law firm based in Toronto, Ontario. With over 150 lawyers, we provide strategic legal and business advice to solar industry participants, including developers, land and building owners, investors and lenders, equipment manufacturers, municipalities and utilities, and industry regulators and industry associations.

Blake, Cassels & Graydon LLP

Toronto, ON
(416) 863-2400
www.blakes.com
Blake, Cassels & Graydon LLP (Blakes) provides exceptional legal services to leading businesses in Canada and around the world.

Blaney McMurtry LLP

Toronto, ON
(416) 593-7221
www.blaney.com
Based in the heart of Toronto's financial district, Blaney McMurtry is a premier Canadian law firm recognized for its expertise in litigation & advocacy, real estate and business law. Visit blaney.com to learn more.

Borden Ladner Gervais LLP

Toronto, ON
(416) 360-6000
www.blg.com
Borden Ladner Gervais (BLG) provides specialized legal, regulatory and strategic advice to electricity generators, developers, lenders, investors and government entities throughout Canada. Our experience includes providing advice on all aspects of project development for all forms of generating projects (renewables and non-renewables) including structuring, financing, tax, construction, First Nations, power purchase agreements, cap and trade regimes, environmental approvals and permitting. We regularly appear before regulatory tribunals across Canada on electricity and natural gas rate cases and other regulatory issues and approvals. We have acted for numerous municipal utilities and their shareholders in respect of mergers, acquisitions, purchases and sales of various utilities. We also provide advice to utilities and consumers regarding electricity and natural gas issues in respect of ongoing legal regulatory requirements including conservation and demand management. Our experience and dedication have resulted in BLG being ranked in the top tier of Canadian law firms in the power sector.

For more information contact Shane Freitag, National Leader, Electricity Markets Group, (416) 367-6137 or visit blg.com.

Cassels Brock & Blackwell LLP

Toronto, ON
(416) 869-5789
www.casselsbrock.com
Canadian law firm focused on serving the transaction, advocacy and advisory needs of the country's most dynamic business sectors.

Cunningham Swan Carty Little & Bonham LLP

Kingston, ON
(613) 544-0211
www.cswan.com
Cunningham Swan LLP is Southeastern Ontario's leading full service law firm, including a growing Energy Law practice well positioned to advise private companies on M&A transactions, project financing, project development, regulatory requirements, contract development, commercial negotiations, landowner and municipal matters, real property law, and commercial litigation.

Gowling WLG (Canada) LLP

Toronto, ON
(416) 369-6678
www.gowlingwlg.com
Gowling WLG delivers highly innovative legal solutions to complex energy system problems around the globe. We work with a wide range of leading industry stakeholders, including financiers and investors, project developers, manufacturers, regulators, first nations, communities and procurement agencies.

Miller Thomson LLP

London, ON
(519) 931-3526
www.millertomson.com
Miller Thomson LLP enjoys a reputation as one of Canada's most respected national business law firms. Our consistent ability to provide practical, creative and cost-effective advice, combined with an unyielding service commitment to our clients and a strong dedication to our lawyers, staff and the communities in which we practice, gives us a unique position in the Canadian legal industry. With offices located in Toronto, Vancouver, Calgary, Edmonton, London, Kitchener-Waterloo, Guelph, Vaughan, Markham, and Montreal, the firm offers a complete range of business law, advocacy and personal legal services to corporations, financial institutions, entrepreneurs, governments, not-for-profit organizations and individuals.

Osler, Hoskin & Hartcourt LLP

Toronto, ON
(416) 362-2111
www.osler.com
Osler is a leading business law firm practising nationally and internationally from offices across Canada and in New York. Our clients include industry and business leaders in all segments of the solar market and the broader energy sector. Our team has critical project-level expertise in all aspects of solar projects.

Stikeman Elliott LLP

Toronto, ON
(416) 869-5500
www.stikeman.com
Stikeman Elliott LLP is a global leader in Canadian business law with offices in Montréal, Toronto, Ottawa, Calgary, Vancouver, New York, London and Sydney. The firm has an exceptional track record in major U.S. cross-border and multijurisdictional matters and ranks as a top firm in its primary practice areas.

Not-For-Profits and Community Groups

Canada Green Building Council (CaGBC)

Ottawa, ON
(866) 941-1184
www.cagbc.org

Continental Automated Buildings Association (CABA)

Ottawa, ON
(613) 686-1814
www.caba.org

Renewable Energy Alliance of Ontario (REAO)

Oakville, ON
(905) 469-9299
www.iuocelocal793.org/tag/renewable-energy-alliance-of-ontario/

TREC SolarShare Co-operative

Toronto, ON
(416) 977-5093
www.solarbonds.ca

Research and Consulting Services

C2Solutions

Vaughan, ON
(416) 802-8041
Independent consultant providing strategic advice to the energy sector

Compass Renewable Energy Consulting Inc.

Toronto, ON
(416) 294-0803
www.compassenergyconsulting.ca
Electricity, solar and renewable energy regulatory strategic consulting services. Net metering and on-site customer based storage solutions, market analysis and risk management.

Dillon Consulting Limited

Oakville, ON
(416) 453-0975
www.dillon.ca/
Dillon Consulting Limited is a national company with 17 offices across Canada. Our firm has fifteen years of experience in the renewable power industry; working under various procurement and regulatory regimes. Our national renewable energy team has experience carrying out environmental, planning, stakeholder engagement and engineering related requirements for solar projects. Dillon has been involved in over 70 renewable energy project approvals and approximately 4,000 MW of those projects are now built and generating clean power to the electrical grid. Please contact Michael Enright, Dillon Consulting Limited Renewable Energy Lead for more information at menright@dillon.ca or (416) 453-0975.

Green Integrations Inc.

Toronto, ON
(647) 930-4336
www.greenintegrations.ca
Green Integrations Inc is a forward thinking organization working to help building management professionals integrate energy conservation and renewable energy technologies into their building operations. Our team is made up of professionals from electrical, renewable energy, and engineering backgrounds. We serve our clients with turnkey solutions designed for industry, government, commercial, hospitality, and residential markets.

Hatch

Mississauga, ON
(905) 855-7600
www.hatch.com
The energy unit of Hatch has a reputation for excellence acquired over 90 years of continuous service. Hatch provides power and energy consulting, engineering and management services to clients around the globe. With more than 9,000 employees in 65 offices on six continents, Hatch provides a broad range of consulting, design, technologies and EPCM services. We offer services for oil and gas; hydro, wind, tidal, solar and other renewable power generation; thermal and nuclear plants; as well as electricity transmission and distribution facilities.

Internat Energy Solutions Canada

Toronto, ON
(416) 628-4658
www.internatenergy.com
Internat Energy Solutions Canada (IESC) is an independent engineering consulting company dedicated to the creation of a more sustainable economy, government and society. Our mission is to help governments, business and individual households create more wealth and employment, protect and enhance human and natural capital, and to increase profit and competitive advantage through the application of sustainable design, energy efficiency and renewable energy principles. Our team of independent engineers and energy consultants are committed to bringing value to society by helping our clients become more efficient, less dependent on external energy supplies, & less disruptive to the environment in which they are embedded. We believe that market-based solutions can help foster the societal transformation required in order to reduce Greenhouse Gas emissions, slow the depletion of our world's natural resources, and reduce our ecological footprint, for the benefit of current & future generations.

J.L. Richards & Associates Limited

Ottawa, ON
(613) 728-3571
www.jlrichards.ca
Founded in 1955, J.L. Richards & Associates Limited is a multidisciplinary practice offering services in all core engineering disciplines, architecture, planning, and project management, for public and private sector clients.

KB Racking

Toronto, ON
(888) 661-3204
www.kbracking.com
KB RACKING specializes in the engineering and manufacturing of solar mounting systems. Our rooftop and groundmount solutions are simple and durable, designed for rapid installation and long lasting performance.

Natural Resource Solutions Inc.

Waterloo, ON
(519) 725-2227
www.nrsi.on.ca
Natural Resource Solutions Inc. is an environmental consulting firm specializing in biological monitoring of proposed developments across Canada.

Pinchin Ltd.

Mississauga, ON
(905) 363-0678
www.pinchin.com
Pinchin Ltd. is one of Canada's largest environmental, engineering, health and safety consulting firms.

Power Advisory LLC

Toronto, Ontario
(647) 680-1154
www.poweradvisoryllc.com
We offer a highly qualified and focused team that provides market-tested and value-driven consulting support. Our advice is based on an understanding of fundamental economic drivers shaped by electricity market structures, generation technologies, regulatory frameworks, government policies and market behavior.

R.J. Burnside & Associates Limited

Orangeville, ON
(519) 941-5331
www.rjburnside.com
Burnside's Renewable Energy and Conservation Group is focused on providing consulting services in support of renewable energy generation including conservation. We also offer energy audits and use assessments to develop energy conservation programs. Our professional group draws from a diverse mix of engineers, geoscientists, environmental specialists, certified energy managers, LEED Accredited Professionals, electrical engineers and Green Roof Accredited Professionals.

Sussex Strategy Group

Toronto, ON
(416) 961-6611
www.sussex-strategy.com
Sussex Strategy Group is one of Canada's premier public and government relations firms. We excel at government, community, corporate communications and media relations at the federal, provincial and municipal levels. Our leadership in energy and environmental policy and project development support includes clients ranging from electricity generators of all supply types; transmission and distribution utilities and technology suppliers; environmental stewards and stewardship organizations in waste management and recycling, and environmental policy, planning, and approvals.

Underwriters Laboratories of Canada Inc.

Toronto, ON
(416) 757-3611
www.canada.ul.com
UL fosters safe living and working conditions for people everywhere through the application of science to solve safety, security and sustainability challenges. The UL Mark engenders trust enabling the safe adoption of innovative new products and technologies. Everyone at UL shares a passion to make the world a safer place. We test, inspect, audit, certify, validate, verify, advise and train and we support these efforts with software solutions for safety and sustainability. To learn more about us, visit UL.com.

Retailer/Installer

● **Affordable Energy**

Aylmer, ON
(519) 773-5754
www.affordableenergyinc.com
Affordable Energy is the developer of a new Rooftop Building Integrated Photovoltaic (BIPV) panel. Designed specifically for sloped roof installation. The specific design makes it the most efficient application. Saving costs and improving structural characteristic. Improving on the appearance and panel output. 2 Patents pending in Canada and the USA.

● **Arcadian Projects Inc.**

Baden, ON
(888) 591-9010
www.arcadianprojects.ca
Arcadian Projects Solar Renewables Group provides tailored energy solutions with certified trades and experienced solar project professionals.

● **ArntjenSolar NA Inc.**

Woodstock, ON
(519) 913-2346
www.arntjencleanenergy.com
The Arntjen Group was founded in 1978. With Solar as our grass roots, we expanded into Clean Energy, ElectroMobility and Conservation offering solutions to help clients find better ways to minimize the dependency on fossil fuels. Arntjen Clean Energy Solutions (ACES) continues meeting the changing needs with sustainability being our focus.

● **Blackline Power**

Owen Sound, ON
(888) 438-3005
www.blacklinepower.com
Blackline Power is a renewable energy company based in Owen Sound offering turnkey solutions for net metering, off-grid and energy efficiency: education, project management, design, sales, financing, installation and service. Our strengths lie in project management, financing and construction. Our competent administrative staff means consistent and reliable communication throughout project lifecycles, and primarily with company principals. We have solid engineering, financing and supply partners, and our core construction team results in tightly managed quality and continuity across projects. Owner Rob Black has advanced solar PV training from Solar Energy International (Colorado) and is a NABCEP certified solar installer.

● **Determination Drilling**

Hamilton, ON
(905) 531-3177
www.determinationdrilling.com
Canadian Drilling Contractor -Geotechnical -Pullback/Lateral Testing -Pile Installation -Driven Post -Helical -Rock Socket -Ground Screw

● **EnergyGeeks Corporation**
North York, ON
(800) 439-5133
www.energygeeks.com
EnergyGeeks's mission is to power the world with 100% renewable energy. The company has built an online Solar Recommendation Platform to simplify the solar buying experience for homes and businesses across Canada & America.

● **Fred Toews Electric Inc.**
Kirkton, ON
(226) 316-0331
www.toewspower.com
Our company started in 1975 as electrical contracting and maintenance. Since then it is expanded into generation, motor repairs and in the last three years into solar and wind energy. We use certified electricians and apprentices for our work and installations.

● **Generation Solar**
Peterborough, ON
(705) 741-1700
www.generationsolar.com
Full service solar contractor: Design, supply, install, service. Also provides consulting and engineering services and contract installation.

● **German Solar Corporation**
London, ON
(519) 457-7373
www.germansolarcorp.com
German Solar Corporation offers comprehensive turnkey services and leading edge technologies.

● **Gravity Sun Power Corp**
Creemore, ON
(705) 466-5741
www.gravitysunpower.ca
Solar PV system sales, design, install and maintenance, we will provide turnkey installations for both rooftop and tracking ground mounts. We service and maintain all solar PV installed systems.

● **Guelph Solar Mechanical Inc.**
Guelph, ON
(519) 804-0757
www.guelphsolar.net

● **iSolara Solar Power**
Ottawa, ON
(613) 738-2646
www.isolara.com
iSolara Solar Power was founded in 2003 by Warren Abar, a Professional Engineer licensed in the Province of Ontario. Over the past ten years the company has earned its solid reputation as one of the leading PV System Integrators in Eastern Ontario. Since the launch of the FIT program, our team has installed more than 275 MicroFIT systems in the region with a mix of roof and ground mounted projects. We have completed 7 FIT projects and have a further 800kW of FIT projects in development. iSolara Solar Power is a registered RET vendor with the Ontario Power Authority.

● **JAZZ Solar Solutions Inc.**
Ottawa, ON
(613) 288-5299
www.jazzsolar.com
JAZZ Solar Solutions (JAZZ) is a pioneering developer of Community Solar and microGrid solutions.

JAZZ believes Indigenous Communities will play a highly significant role in humanity's victory over climate change.

● **Kawartha Solar**
Little Britain, ON
(905) 424-0174
Kawartha solar provides design and installation of off-grid systems as well as net metered systems. Servicing the city of Kawartha Lakes and surrounding area.

● **Multeps Solar Inc.**
Aurora, ON
(905) 806-3857
www.multeps.ca
Solar Energy Projects design and installation services.

NORTHWIND
A SPARKPOWER COMPANY

● **Northwind Solutions**
Oakville, ON
(905) 829-5757
www.northwindsolutions.com
Northwind is a progressive, customer-focused service organization delivering asset monitoring, performance analytics, operations and maintenance (O&M) services to the renewable energy industry. Established in 2004 in Ontario, Canada, our mission is to minimize asset down time and maximize the value of renewable energy assets today, and for the long term.

● **Ontario Solar Installers**
Toronto, ON
(905) 233-2567
www.ontario-solar-installers.ca

● **Otter Energy Inc**
Picton, ON
(613) 961-9745
www.OtterEnergy.com

● **Polaron Solartech**
Scarborough, ON
(647) 557-1207
www.polaronsolar.com
Polaron Solartech Corp. is one of the leading solar companies in Canada. Started from the residential solar market, we have helped thousands of homeowners to go solar with the best innovative solar programs. We offer an all-inclusive package that includes design developing, financial planning, installation and professional maintenance. Our dedicated team works tirelessly to ensure that each step is accomplished with care and precision so that you can get both the quality of a good solar panel system and the highest quantity of savings with our plans.

● **Prowess Solar Power Inc.**
Kleinburg, ON
(416) 335-8832
www.prowesssolar.com
Design and installation of pv solar systems for residential and commercial buildings. Custom fabricated mounting systems as well as standard Ontario made mounting systems.

● **Unconquered Sun Solar Technologies Inc.**
Tecumseh, ON
(519) 735-1818
www.unconqueredsun.com
Unconquered Sun Solar Technologies Inc, was established in 2008 and is a manufacturer of practical and innovative PV tech. USST has engineered and constructed hundreds of residential, commercial (FIT) contracted & net metered solar sites across Canada. USST sites have exported almost 17 GWhrs of clean renewable electricity to the grid, and USST FIT solar installations are on pace to pay over 70M CAD to USST clientele.

● **Vigor Clean Tech Inc.**
Petersburg, ON
(519) 279-4630
www.vigorcleantech.com
Located in Kitchener, Ontario - Vigor aims to be a leading generator of sustainable and affordable, clean energy technologies. In addition to fixed panel solar PV systems, we specialize in solar tracking technologies for ground mount and roof top, for both residential and commercial scale developments. We look forward to partnering to create electrical and economic development solutions with individuals, businesses, First Nations and other communities.

Solar Equipment Manufacturing

Apsystems Canada Ltd.
Toronto, ON
(416) 459-1806
www.apsystems.com
APsystems is a global leader of solar MLPE technology. Providing microinverter, optimizer and rapid shutdown solutions for residential, commercial and utility systems.

Assembly Automation Alternatives, Inc.
Woodbridge, ON
(905) 605-9200
www.auto-alt.com
Automation Alternatives is manufacturer of Solar Module Edge sealing systems, Potting systems, Conveying systems, Inspection systems, Laser Patterning and Marking systems for the PV solar module manufacturing industry.



Canadian Solar Solutions Inc.
Guelph, ON
(519) 837-1881
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