



# Renewable Energy Solutions

Accelerating the Transformation of  
Canada's Energy Mix



Ingenuity delivered.

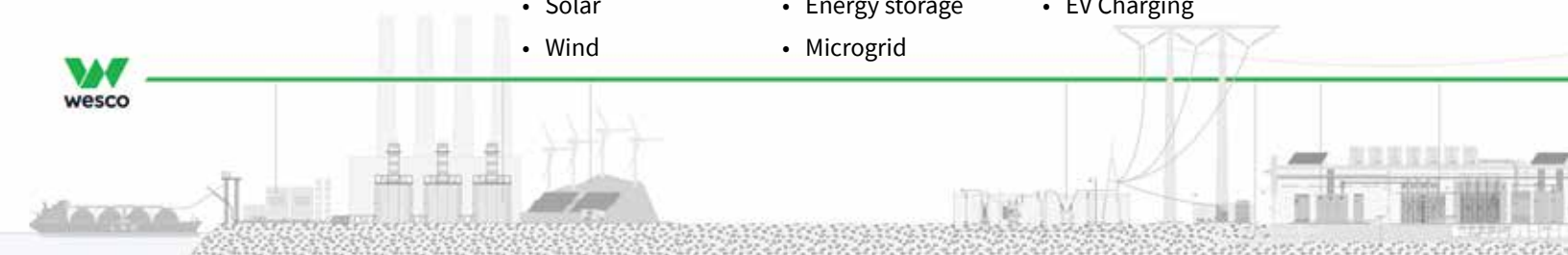
**Ingenuity delivered.**



Canada must decarbonize and double its electricity production in less than 30 years to achieve its net-zero emissions goal by 2050. From the boardroom to the plant floor, companies are rethinking how they impact people and the environment. The massive expansion of our renewable energy capacity is an opportunity to lower costs, innovate and build more resilient operations and a better future. Wesco is positioned to provide the critical infrastructure, know-how and renewable energy solutions that will power the fourth industrial revolution.

At Wesco, we offer a range of solutions that help accelerate Canada's transition to a net-zero future. We take pride in being inventive, adaptable and agile to best serve the needs of utilities, contractors, engineering, procurement and construction companies (EPCs) seeking leading scale and scope to deliver the best solutions for renewable energy projects.

- Solar
- Wind
- Energy storage
- Microgrid
- EV Charging





# Reduce The Cost of Emissions with Solar and Wind Solutions

Simplify and reduce costs with the right solar partner. Our renewable energy specialists provide up-to-date information and technical support for both installers and end-users.

Home to vast wind and solar energy resources, Canada already ranks as a leading producer of renewable energy. Thirty-two gigawatts of rooftop solar could be installed in Canada by 2050. Increasing the connections between different provinces and territories makes it possible to achieve balanced progress toward national goals for reducing carbon emissions in the power sector.

## Serving a Wide Range of Markets

Whether your focus is residential, commercial or utility-scale solar, Wesco has the products, solutions and expertise to simplify your projects and reduce operating costs. The result is increased profitability for you and more solar energy on the grid.



## Residential and Commercial Solar

Wesco offers an integrated solar energy solution for your facility rooftop that includes revenue-producing or cost savings outcomes, including manufacturers of photovoltaic modules, inverters, racking and balance of systems (BOS).



## Utility-Scale Solar

We work together with our core supplier network to develop high-tech, adaptable, build-to-order DC string collection solutions, including wire, combiner boxes, harnesses and inline fuse splitters.



## Wind Energy Plays a Vital Role in the Global Shift Towards Electrification

To meet the growing demand for cost-effective energy and support Canada's goal of net-zero greenhouse gas emissions by 2050, companies must increase their investment in wind, solar and energy storage. With Canada needing to deploy almost ten times its current wind and solar energy capacity to meet the demands of the next 27 years, the scale and speed of this deployment are unprecedented.

Partner with our experienced team to bring your wind energy project to life. As a leading supplier of wire and cable, we collaborate with top-notch suppliers, EPC contractors and developer partners to simplify the regulatory process and optimized energy output.

# Energy Storage and EV Solutions for a Greener Future



## Work with a Global Leader in AI-Driven Energy Storage

The increase in wind and solar power generation, the aging grid infrastructure and the need to reduce stress on the grid drive the initiative to deploy battery storage systems. Store excess solar energy and use it during times of high electricity costs. With energy storage, you can release stored solar energy during peak usage or low solar production, boosting your overall project savings and the value of your solar asset.

## How Energy Storage is Also Making EV Charging More Affordable

EV charging and electrification infrastructure can mean tens of thousands of dollars in excess power consumption and demand charges each billing period. Installing an energy storage system can protect your business from increased energy costs, prepare you for future rate changes, and create new revenue streams through energy market participation. Each of our turnkey solutions includes best-in-class software to maximize project value and optimize the asset over its lifetime.

## Reduce The Cost of Your Fleet Operations With EV Charging Solutions

Stay ahead of the growing demand for electric vehicle (EV) charging with our comprehensive EV charging solutions for all types of sites.

According to Bloomberg, by 2040, EVs are projected to make up over half of the world's passenger vehicles. To keep pace with this growth, a national network of charging infrastructure is being rapidly developed by government agencies, municipalities, charging equipment manufacturers, automakers and utility companies.

**Wesco partners with industry-leading suppliers to support the full scope of your EV project.** Our focus is on Level 2 and 3 charging systems with complete energy storage and BOS solutions.

Contact us at 1-866-WESCO CA (937-2622) to learn more about our customizable energy storage solutions.

# Micro-Grids and Distributed Energy Resource (DER) Systems



The electricity grid of the future will incorporate various tools, including energy storage and distributed energy resources (DERs) to help ensure the effortless integration of renewable energy technologies. With DERs, the electricity system can transition from a traditional one-way system where power flows from large generating stations to consumers to a two-way system where consumers can produce electricity and provide a range of reliable services to the grid.

Secure your company against energy price fluctuations with the microgrid platform. These small-scale and self-sufficient energy systems enable you to fix a large portion of your electricity cost and are modular to scale with your business as the demand for power grows.

## Benefits:

- Alleviate pressure on centralized infrastructure through grid fortification
- Establish safeguards for business operations and protect the bottom line
- Provide remote communities with a safe and reliable space

Wesco can help you pave the way toward the electrification of your business and increase your renewable energy footprint. Talk to your sales representative about how we can help operationalize your sustainability plans.



**Ingenuity delivered.**

**Wesco.ca**

**Wesco**  
225 West Station Square Drive, Suite 700  
Pittsburgh, PA 15219  
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