



Innovative strength and social sustainability

In 2001, Canadian Solar began with the vision of helping to create a clean, sustainable energy future through solar power. With advanced technology and superior manufacturing capabilities, the company brings higher quality and better value to the marketplace. It is Canadian Solar's commitment to develop socially responsible, sustainable and innovative practices in every part of its business. Recently the company, as the first solar panel manufacturer launched Zep compatible NewEdge panels and made the first Ronald McDonald house solar-powered. PES investigates.

Canadian Solar's NewEdge solar modules come with the patented Zep Groove technology, and are compatible with both the new Zep Solar installation system for homes and with traditional systems. The NewEdge panels provide one of the solar industry's fastest and most cost-effective ways to install photovoltaic (PV) solar systems on residential roofs.

The NewEdge modules with Zep Solar's breakthrough rail-free, auto-grounding system can slash residential installation costs in half and reduce the amount of time installers spend on a roof by 75

per cent. PV systems with NewEdge panels yield significant financial, labour and performance improvements, when compared to traditional roof-mounted solar systems.

The Zep System offers one of the solar industry's most robust methods for grounding PV solar arrays; the system is ETL-listed to UL 1703 and UL 467, thus assuring proper grounding for the life of the system. Together with Canadian Solar's NewEdge panels – consistently ranked among the highest-performing in independent third-party tests – installers

can be assured that the solar system installation will not only be cost-effective, but will also produce at the top of the module performance range.

Canadian Solar's CS6P and CS5A modules lead in PV USA (or PTC) ratings, which are quickly becoming universally-accepted standards for real-world module power and performance.

"Canadian Solar is the first solar panel manufacturer to provide the Zep compatible NewEdge panels, and we're looking forward to offering installers this high-quality and forward-thinking solar



The new Canadian Solar NewEdge CSSA-MX and CS6P-PX modules with Zep Compatible frames will revolutionise solar installation

technology," said Dr. Shawn Qu, CEO of Canadian Solar. "The Zep System represents a turnaround in standard installation practices and hardware. Canadian Solar is building on our market leadership and reputation for high-quality products by coupling our high-performance modules with this leading next-generation installation technology."

First Ronald McDonald House going solar with Canadian Solar

The Ronald McDonald House of San Diego has got a new 116 kW roof-mounted photovoltaic (PV) solar electric system, making it the first Ronald McDonald House in California to use solar energy. This power supports families with seriously ill children in local hospitals.

The Ronald McDonald House will serve more than 20,000 families this year alone, and the solar electric installation will help offset the electrical needs of the families with clean energy. "The Ronald McDonald House ensures families in San Diego receive the necessities they need as they care for their sick child, and we are so pleased to be able to provide our high-quality modules to this pivotal community facility," said Dr. Qu. "Through its leadership in California implementing a renewable energy solution, the Ronald McDonald House will reap significant financial savings while contributing to environmental sustainability for years to come."

The Ronald McDonald House of San Diego solar electric system will produce an average of 147,846 kilowatt hours (kW/h) per year. The environmental offset is

equivalent to curtailing the release of 151,420 pounds of carbon dioxide each year, or planting 554 new trees and sequestering the carbon dioxide over their lifetime.

The house was built according to strict green building standards, using a combination of high-efficiency mechanical systems and envelope and lighting design; it uses 17.5 per cent less energy than a typical building in California.

Materials used to create the building contain significant amounts of recycled content, and the building provides recycling collection stations to all house guests and employees.

Canadian Solar is driven to create a sustainable future. To the company, sustainability is a broad business philosophy encompassing what it delivers to customers in terms of clean energy production and long-term financial advantages. It also includes its own environmentally-friendly business and manufacturing practices.

Canadian Solar is accelerating solar adoption around the world in order to help make solar products into necessary household appliances everywhere. To do that, the company continues to drive innovation that supports financial, environmental and social sustainability. ■

About the company

Canadian Solar Inc. is one of the world's largest solar companies. As a leading vertically-integrated provider of ingots, wafers, solar cells, solar modules, solar power systems and specialised solar products, Canadian Solar delivers uncompromising value to its customers across the globe.

Their customers trust Canadian Solar's world-renowned technical expertise, corporate financial strength and commitment to sustainable value, and furthermore, they choose Canadian Solar because they manufacture high-quality solar PV products with market-leading cost structures, delivering the best value possible.

History

Canadian Solar was founded in Ontario, Canada in 2001 and was successfully listed on NASDAQ Exchange in 2006. Today, the company operates across three continents, delivering solar modules to customers in 24 countries.

A few facts

- Seven wholly-owned manufacturing subsidiaries with a total combined facility space of close to 230,000 square metres and a module capacity of 1.3 GW
- Canadian Solar operates in seven countries: Canada, China, Germany, Italy, Spain, Japan, Korea, and the United States
- Products adhere to the strictest international quality standards, backed by IEC, TUV, UL, certifications. In fact, Canadian Solar was the first solar PV manufacturer to achieve registration with ISO: TS16949, an automotive quality management system much stricter than ISO 9001
- Canadian Solar operates its own ISO 17025 accredited testing lab.

For more information, please visit: www.canadiansolar.com