



# Sustainable solutions solar

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As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

We won't charge you anything to get quotes through our marketplace. Instead, installers and other service providers pay us a small fee to participate after we vet them for reliability and suitability. To learn more, read about how we make money, our Dispute Resolution Service, and our Editorial Guidelines.

Solar energy is an emission-free alternative to traditional power production and undoubtedly lessens our reliance on fossil fuels - but there's room for improvement to make solar even more sustainable. As the solar industry matures, more companies are entering the booming market. But, just like any other company, solar companies are ultimately trying to turn a profit. So, how much do they value sustainability? And what are some solar companies doing to better the industry? This article highlights a few companies that prioritize sustainability in their solar energy endeavors.

All solar panel manufacturers are helping improve the environment by creating clean, renewable energy technology - but here are a few companies that are going the extra mile to improve the industry even further:

The REC Alpha Pure-R is the latest version in the award-winning series. The heterojunction cell technology boasts an annual energy yield (aka the amount of energy harvested from your panels) that's 26 percent greater than conventional panels. In addition to their efficiency, the Alpha Pure-R can further lower your carbon footprint. It starts in the manufacturing process: the environmentally-friendly practices implemented in the production of the panels, like removing lead from all panel components, contribute to a lower overall impact on the environment.

Canadian Solar is a solar developer and manufacturer on a mission to "foster sustainable development and to create a better and cleaner earth for future generations by bringing electricity powered by the sun to millions worldwide" since 2001. With over 75 Gigawatts (GW) of solar modules shipped and 26 GW in their project pipeline, Canadian Solar is a global presence in the solar industry. Not only does Canadian Solar provide emission-cutting energy solutions, but they also strive to operate their business as sustainably as possible.

Canadian Solar aims to reduce water and energy consumption in the production of their products: from 2017 to 2021, the Ontario-based company achieved reductions in greenhouse gas (GHG) emissions, energy intensity, water intensity, and waste intensity of 17%, 18%, 53%, and 36%, respectively. Canadian Solar also



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claims to be on track to power all global operations with 100% renewable energy before 2030.

Canadian Solar holds itself accountable to its sustainability commitments through Environmental, Social, and Governance (ESG) goals. Beyond ESG, Canadian Solar also adopted the United Nations' sustainable development goals by implementing initiatives like solar module donations.

Trina Solar's sustainability initiatives don't end with their products and business practices. This company has won multiple awards for corporate social responsibility due to its efforts to expand affordable and reliable clean energy to needy communities. From donating solar modules to primary schools and areas devastated by natural disasters to their financial contribution to solar education and training in marginalized communities, Trina Solar aims to bring everyone the benefits of sustainable solar solutions.

Solar panels produce emission-free energy, but sometimes the production of them can generate greenhouse gas emissions. Here are a couple of considerations that can help you find sustainable panels when shopping for a solar system:

Solar panels are made up of many components, some of which are rare, expensive, and difficult to source. Unfortunately, some modules are manufactured with materials that were irresponsibly recovered. When practices requiring things like coal burning are used to collect the necessary components for solar modules, the module's carbon footprint increases and your solar system's sustainability is compromised.

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