









Dr. Shawn Qu Chairman, CEO and CTO (Director)



Yan Zhuang President, CSI Solar



Thomas Körner Corporate Vice President, Module and System Solutions

A WORLD-CLASS POWER SOLUTIONS COMPANY

Chairman and President Dr. Shawn Qu founded Canadian Solar in 2001 with a bold vision: to foster sustainable development and to make lives better by bringing electricity powered by the sun to millions of people worldwide. Over 13,000 dedicated employees of Canadian Solar (NASDAQ: CSIQ) strive each day to make this vision a reality.

Canadian Solar has two main lines of business. The company's original business is the manufacturing and sales of solar and energy storage products and services. This business has been carved-out into the subsidiary CSI Solar Co. Ltd., and will soon to be publicly listed via an IPO in China. The other business is our Global Energy business, the development, construction, and sale of solar PV and energy storage projects, working with both build-to-sell and build-to-hold business models.

Over 63 GW of our solar modules have been installed so far, enough to provide green power to nearly 10 million homes. Our products are in operation in more than 150 countries, giving us a truly global reach. These achievements put us at the forefront of making solar power and energy storage competitive and mainstream.

Customers choose Canadian Solar because we deliver the best possible value. Our wafers, cells, modules, and other solar components combine superior quality with market-leading cost structures, and we are unique positioned to provide complete turnkey solar and energy storage solutions. Our solar and energy storage projects consistently achieve the highest production values and returns on investment.

We currently have more than 20 GW of such projects in pipeline worldwide. By bundling services for the entire project lifecycle--feasibility study, permitting, engineering, procurement, construction, and maintenance-we can significantly reduce complexity and cost for commercial, industrial, and utility-scale customers.

COMPANY OVERVIEW



FOUNDED 2001 IN ONTARIO



OVER 13,000 EMPLOYEES



63 GW OF SOLAR MODULES SHIPPED, WITH 20 GW PROJECTS IN PIPELINE



MORE THAN 1,600 GLOBAL PATENT LICENSES



2020 REVENUE \$3.5 BILLION

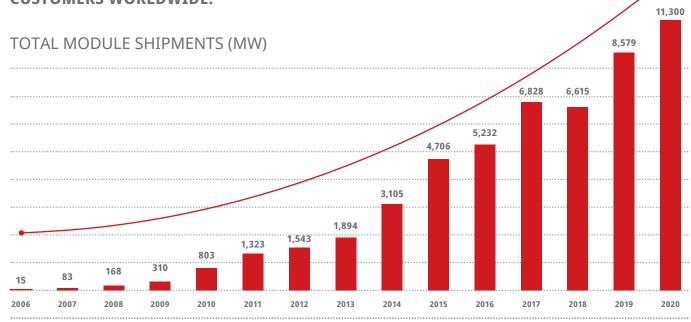


MOST RECOMMENDED **SOLAR COMPANY**



COMPANY FACTS

CANADIAN SOLAR HAS BEEN MAKING THE DIFFERENCE FOR OVER 20 YEARS BY BRINGING A TOTAL OF MORE THAN 63 GW OF SOLAR CAPACITY TO OUR **CUSTOMERS WORLDWIDE.**





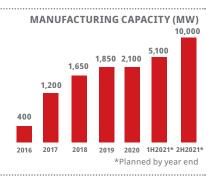
Silicon Production



Ingots

Mono- & Polycrystalline

Ingot casting centralized in Batou, China in 2018.

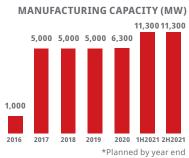




Wafers

Mono- & Polycrystalline

Wafer manufacturing capability quadrupled from year end 2016 to year end 2017. Diamond wire saw and onyx black silicon technologies reduce manufacturing costs.

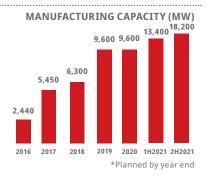




PV Cells

Mono- & Polycrystalline

9.7 GW of total annual solar cell manufacturing capacity, with plans to expand the cell manufacturing capacities to over 18 GW by the end of 2021.

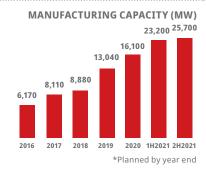




PV Modules

Mono- & Polycrystalline

Module manufacturing capacity is planned to reach 25 GWp at the end of 2021 across our global manufacturing facilities.





Systems and Solutions

String Inverters, Connectors and PV System Components, Energy Storage Systems, Off-grid Products, Micro-grids, Distributed Generation Solutions.



Global Energy Group

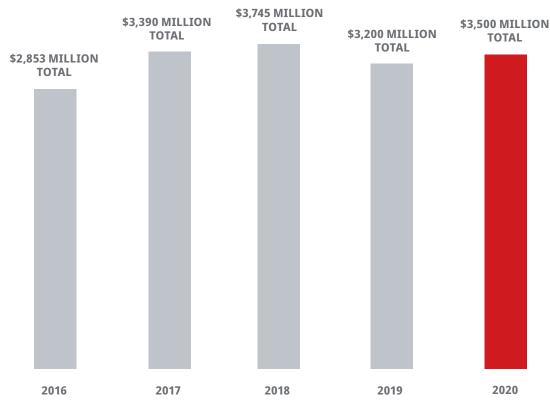
With a strong global team, the total projects backlog & pipeline reached 20.2 GWp in Q4 2020, with 5.7 GWp of developed, built, and connected projects worldwide.



FINANCIAL STRENGTH

Steady growth has enabled Canadian Solar to become one of the world's biggest suppliers of solar modules and we've done it profitably.

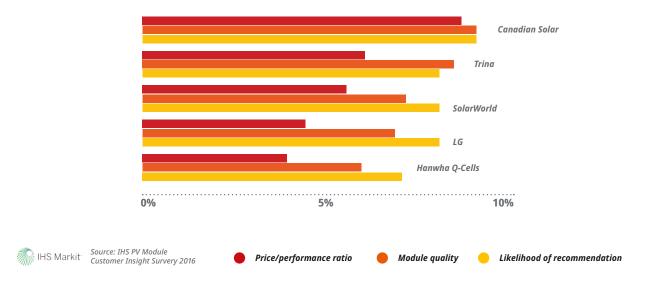
Our net income of \$146.7 million on revenue of \$3.5 billion in 2020 was among the best in the industry. These figures underscore Canadian Solar's ability to combine growth, profitability, and prudent financial management.



TOP BRAND FOR PRICE/PERFORMANCE RATIO & HIGHEST MODULE QUALITY

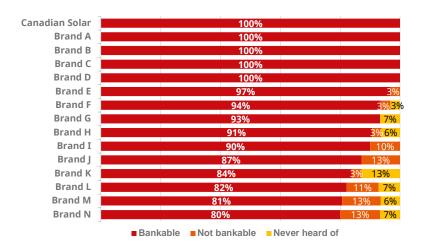
VERIFIED BY IHS

As verified by IHS, Canadian Solar was confirmed as the module brand with the best price/performance ratio, the highest module quality, and the highest likelihood of being recommended.



TOP-3 RATED BANKABLE SOLAR COMPANY

BLOOMBERGNEF'S PV MODULE BANKABILITY SURVEY RESULTS, TOP 15, 2020



- · 100% of respondents surveyed by BloombergNEF considered Canadian Solar bankable.*
- · BNEF's Tier 1 ranking
- · Bankable at 100+ financial institutions globally
- · World Bank's International Finance Corporation became a shareholder in 2016
- · Ranked No.1 for Corporate Social Responsibility
- · Top AA-Rated bankable PV module supplier

INDEPENDENT BANKABILITY REPORTS OF SGURR & DELOITTE AVAILABLE UPON REQUEST





Squrr Deloitte. BloombergNEF Devtech



NEWEST TECHNOLOGY

HIKU - BIHIKU 7 MODULE PORTFOLIO

HiKu7

CS7N-MS / CS7L-MS



Mono PERC Module: 665 W

Efficiency: 21.4%

Mono PERC Module: 605 W

Efficiency: 21.4%



LCOE 3.5% lower than industry average



Reduces balance of system cost by 5.7%



High price/performance ratio with 500W solar module solutions



Up to 50% lower degradation with LID/ LeTID mitigation technology

BiHiKu7

CS7N-MB-AG / CS7L-MB-AG



Mono PERC Module: 655 W

Efficiency: 21.1%

Mono PERC Module: 600 W

Efficiency: 21.2%



LCOE 8.9% lower than industry average



Low annual degradation: 0.45%



Up to 29.5% increase in lifetime power generation



Widely suitable to different solar plants and systems

INDUSTRY LEADING DUAL-CELL, BIFACIAL & ENHANCED WAFER MODULES

HiKu

CS3W-P / CS3W-MS









BiHiKu

CS3W-PB-AG / CS3W-MB-AG





Poly PERC Module: 420 W

Efficiency: 19.0%

Mono PERC Module: 465 W

Efficiency: 21.1%

First poly module exceeding 400 W



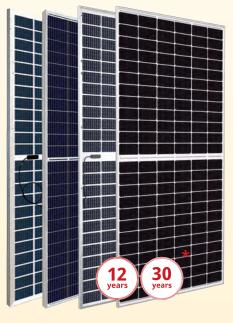
Up to 4.5% lower LCOE, up to 2.7% lower system cost



Better shading tolerance, lower hot spot temperature



LID +LeTID <2.0%



Poly PERC Module: 420 W Efficiency: 18.8%

Mono PERC Module: 455 W,

Efficiency: 20.4%



First bifacial poly module exceeding 400 W



24% higher front side power than conventional modules, up to 30% more power from back side.



Wind load up to 3600 Pa, heavy snow load up to 5400 Pa



LID +LeTID <2.0%

PREMIUM ROOFTOP MODULES

HiKu5

CS3Y-MS / CS3Y-P





Mono PERC Module: 500 W

Efficiency: 21.2%



LCOE 4% lower than industry average



Reduces balance of system cost by 4.2%



High price/performance ratio with 500W solar module solutions



Up to 50% lower degradation with LID/LeTID mitigation technology

BiHiKu5

CS3Y-PB-AG / CS3Y-MB-AG



Mono PERC Module: 490 W

Efficiency: 20.7%



LCOE 11.5% lower than industry

average



Low annual degradation: 0.45%



Up to 29.5% increase in lifetime power generation



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Widely suitable to different solar plants and systems

HiDM5

CS1Y









design blends into your roof



Module efficiency up to 20.1%



Better shading tolerance, lower hot spot temperature



Low temperature coefficient (Pmax): -0.36 % / °C

T4 PV CONNECTOR

The Canadian Solar T4 PV connector is a high-quality fieldinstallable PV connector-type. These connectors are made of high quality materials that guarantee long-term reliability. Lower contact resistance and higher current transfer capability ensure high product efficiency. T4 PV connectors have IP68 water- and dust-proof rating and can be used in a wide operating temperature range from -40 °C to 90 °C.

- Suitable for 4 mm²/12 AWG and 10 AWG cables
- Field toolkit, disconnect tool and jumper cables are available
- T4 is the standard connector on Canadian Solar modules
- 1000 V and 1500 V IEC / UL versions are available





Female connector (+)





INVERTERS

THREE-PHASE STRING INVERTERS FOR POWER CONVERSION

Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for commercial rooftop and ground-mount applications. An NRTL approved, cost-effective alternative to central inverters, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. Fanless and fan-assisted models are available. Canadian Solar inverters come with a 10 year warranty, extendable up to 20 years.

1500 V

255 kW

1500 V

125 kW (20 Inputs)

1500 V

125 kW (Combined Inputs)







CSI-255K-T800

For utility and commercial applications

- Advanced thermal design with variable speed fans
- · Maximum efficiency of 99.0%, CEC efficiency of 98.5%
- · Transformerless design
- Smart string monitoring and IV curve diagnosis
- PLC/RS-485 multiple communication modes, flexible monitoring

CS-125-KTL-GS-E

For utility and commercial applications

- Advanced thermal design with variable speed fans
- Maximum efficiency of 99.1%, CEC efficiency of 98.6%
- Transformerless design
- PID mitigation capability
- Wide MPPT range for flexible string sizing

CSI-125K-T600

For utility and commercial applications

- Advanced thermal design with variable speed fans
- Maximum efficiency of 99.1%, CEC efficiency of 98.6%
- Transformerless design
- PID mitigation capability
- Single MPPT for higher conversion efficiency

INVERTERS

THREE-PHASE STRING INVERTERS FOR POWER CONVERSION

1500 V

75-100 kW



1000 V

50-66 kW



25-40 kW



CSI-75K - 100K-T480

For utility and commercial applications

- Advanced thermal design with variable speed fans
- Maximum efficiency of 99%, CEC efficiency of 98.5%
- Smart string monitoring and IV curve diagnosis
- Integrated AFCI (DC arc-fault circuit protection)
- Rapid Shutdown: Tigo RSS Transmitter built-in



Tigo Enhanced for rapid shutdown

KTL-GS SERIES (UL) 50-66KW

For commercial applications

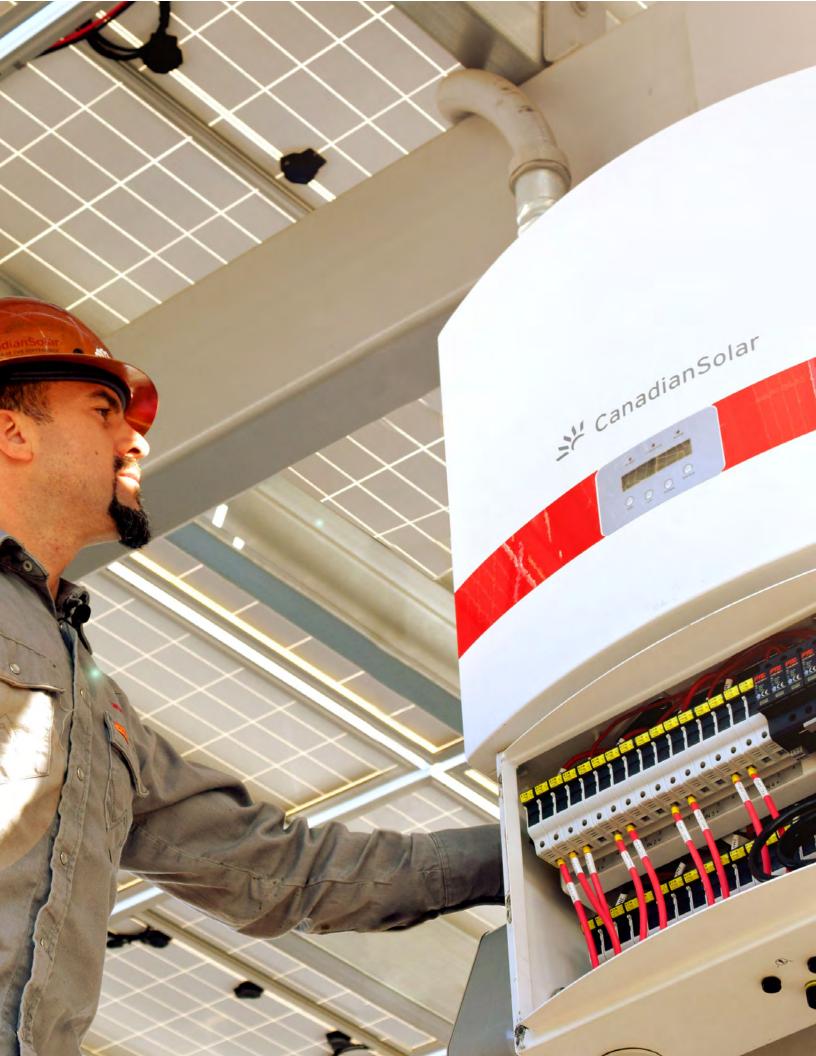
- Maximum efficiency of 98.8%, CEC efficiency of 98.4%
- Advanced thermal design with fan-assisted cooling
- 4 MPPT Channels (Maximum Power Point Tracking) to achieve higher system efficiency
- Separable wiring box design
- Rapid Shutdown: Tigo RSS Transmitter built-in

KTL-GS SERIES (UL) 25-40KW

For commercial applications

- Maximum efficiency of 98.6%, CEC efficiency of 98.3%
- Advanced thermal design
- 4 MPPT Channels (Maximum Power Point Tracking) to achieve higher system efficiency
- Separable wiring box design
- Rapid Shutdown: Tigo RSS Transmitter built-in





DATA MONITORING

HARDWARE AND SOFTWARE TO MONITOR THE PERFORMANCE OF YOUR PV SYSTEM

WIFI/LAN STICK

CSI-GL-WIFI STICK / CSI-GL-LAN STICK





Quick installation and easy commissioning



Mobile application commissioning via Android and IOS. Laptop version also available



Robust IP65 outdoor WIFI connection point, built to survive solar plant conditions

CSI CLOUD APPS

PORTAL APPS FOR END USERS, INSTALLERS, AND OPERATORS



CSI Cloud

- · Portal for end-user
- · Display and monitor system performance and key metrics





- · Portal for installers, operators, fleet management
- · Includes administrative and access rights management



Mobile App

- · iOS and Android platform
- · CSI Cloud and CSI CloudPro
- · All app features available on mobile



REFERENCES

CANADIAN SOLAR PRODUCTS ARE USED IN SMALL AND LARGE-SCALE SOLAR PROJECTS ACROSS THE GLOBE. OUR CUSTOMERS' PROJECTS HAVE EARNED A REPUTATION FOR DELIVERING THE HIGHEST ENERGY YIELD AND RETURN ON INVESTMENT.

2. SACHS HARBOR SACHS HARBOR, CANADA

Module: CS6P-260P Power generation: 17,440 kWh/year





1. EE WAIANAE OAHU, HI, USA

Module: CS6X-325P Power generation: 63,126 MWh/year





3. SINGLE FAMILY HOME LIVERMORE, CA, USA

Module: HIDM-AB - CS1H-MS



4. HORUS SOLAR PABELLON ARTEAGA, AG, MEXICO

Utility Ground Mount EPC, Modules, O&M Power generation: 95MWac / 118 MWdc





5. NANTICOKE SOLAR NANTICOKE, ON, CANADA

Module: CS63U-P Power generation: 73,000 MWh/year

6. ECHO LEAHY VT, USA

Carport Bi-Facial Canopy Module: BIKU - CS3U



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7. LA VEGA TELECABLE LA VEGA, DOMINICAN REPUBLIC

Module: CS3U-P

SERVICES

CANADIAN SOLAR DOESN'T JUST MAKE GREAT SOLAR PRODUCTS. AS A COMPLETE SYSTEM SOLUTIONS PROVIDER, WE OFFER A FULL RANGE OF SERVICES.

At Canadian Solar, we can design, engineer, procure, construct, manage, operate, and maintain utility-scale solar and energy storage power plants. Our solutions are flexible and customized to each partner's needs.

TURNKEY ENERGY STORAGE SOLUTIONS

System Solutions & Energy Storage Group offers a suite of proven, flexible, turnkey energy storage solutions and services that meet your individual project needs. We offer the best overall value through advanced technology and system flexibility, and are committed to providing the highest level of support, quality and safety.

SOLUTION HIGHLIGHTS

- AC-coupled or DC-coupled Configuration
- Long Term Service Agreements
- 1 to 4 Hour Storage Durations
- Modular and Scalable from 2.5MWh to 1GWh
- Supports Multiple Applications



ENERGY STORAGE SOLUTIONS



DESIGN ENGINEERING SERVICES



FLEXIBLE WARRANTIES & GUARANTEES



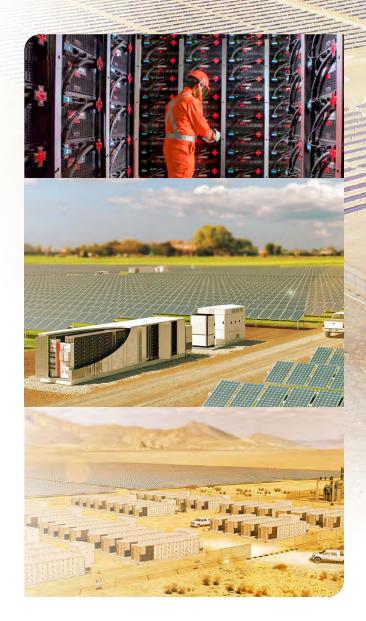
TURNKEY EPC SERVICES



COMPREHENSIVE O&M SERVICES

TO LEARN MORE ABOUT OUR ENERGY STORAGE OFFERINGS PLEASE VISIT:

WWW.CSISOLAR.COM/NA/ENERGY-STORAGE/



O&M SERVICES

Canadian Solar offers Operations and Maintenance Services for large commercial and utility-scale solar power plants. Customized packaged solutions can include monitoring, reporting, preventive maintenance, corrective maintenance, engineering services, warranty management, and spare parts management. With over 3.0 GW of solar projects contracted and under operations worldwide, Canadian Solar is an expert in solar O&M.

- CSEye: 24/7/365 remote monitoring, diagnostics and troubleshooting
- Daily, monthly and annual reporting
- Availability and performance guarantees available
- NERC Registration



ASSET MANAGEMENT SERVICES

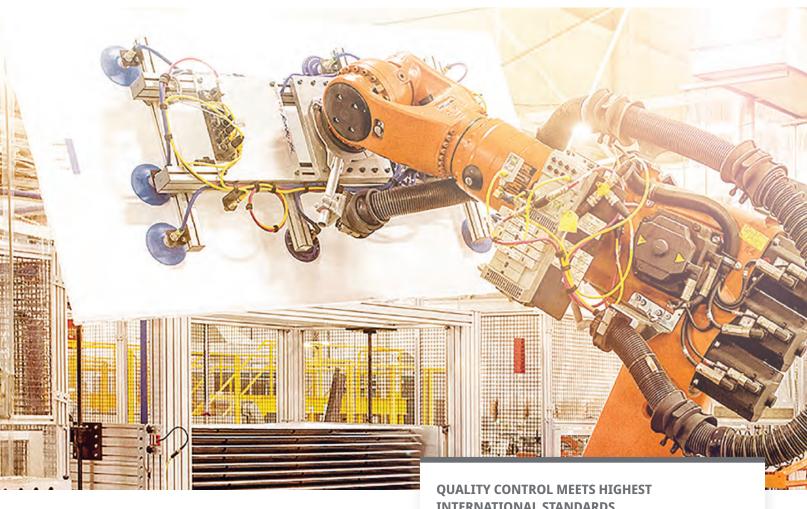
Our dedicated team has managed more than 2.2 GW of commercial and utility solar power plants in the Americas, representing hundreds of millions of dollars in annual power purchase agreement revenues, so we understand the owner's perspective and treat your assets as our own. Whether you're looking for a full-service solar asset management partner or need support in a few critical areas, we have the experience, expertise and capabilities to help navigate the complexities of a rapidly changing market.

- Representing 60 + projects since 2009
- Experienced with wide variety of offtake mechanisms, financing structures, jurisdictions, energy markets, and PV equipment sets
- Proven track record of asset optimization, issue resolution, compliance. and risk mitigation
- Extensive experience establishing and managing an active National Security Agreement (NSA) with the United States Department of Defense (DoD) and Committee on Foreign Investment in the United States (CFIUS) since 2018.



QUALITY AND SERVICE

ROBUST CONSTRUCTION IN ACCORDANCE WITH THE HIGHEST QUALITY STANDARDS GIVES OUR SOLAR PANELS OUTSTANDING LONGEVITY



Solar projects typically have a designed operating lifetime of 25 years. Our products have the longevity to meet these demands. We conduct rigorous in-house testing in our own laboratories to ensure durability and regularly submit our products to the world's leading independent testing institutes, including the Fraunhofer Society and TÜV Labs. We've adapted the stringent quality-management systems of the automotive industry to PV manufacturing and check every one of our products at 411 different points along the manufacturing process to ensure their quality.

We comply with a wide range of internationally recognized standards for quality and environmental management.

INTERNATIONAL STANDARDS

- Compliance with ISO IEC 17024 procedures to approve all materials and components entering our facilities
- Confirmation through IEC 61215 and IEC 61730 tests to ensure product safety and reliability
- · Adaption of the stringent quality-management system of the automotive industry to PV manufacturing
- · Compliance with international quality and environmental-management standards ISO 9001, QC080000, ISO 14001 and OHSAS 18001



Canadian Solar is committed to continually developing high quality products that you can trust. On top of our industry leading R&D team designing innovative solar PV modules, we have stringent quality control criteria to ensure that Canadian Solar products consistently exhibit the exceptional quality we are known for. With 411 quality control points across all areas of the production process, from the incoming material inspection to delivery, Canadian Solar stands out in the solar industry as continually developing new and more efficient technology without compromising on quality.

These quality control points are consistently applied in all of our factories globally, so that our customers can be sure that no matter where they are, their Canadian Solar products uphold our commitment to reliability and excellence.





CANADIAN SOLAR SALES AND SUPPORT FOOTPRINT

Our team of sales, sales support, technical, customer service, logistics, credit, finance, and other professionals in North America is dedicated to your success. Contact Canadian Solar today to see how we can "Make the Difference" for your solar business.

CANADIAN SOLAR (USA) INC.

California, USA 94597

TEL +1 888 998 7739 FAX +1 925 866 2704

E-MAIL sales.ca@csisolar.com