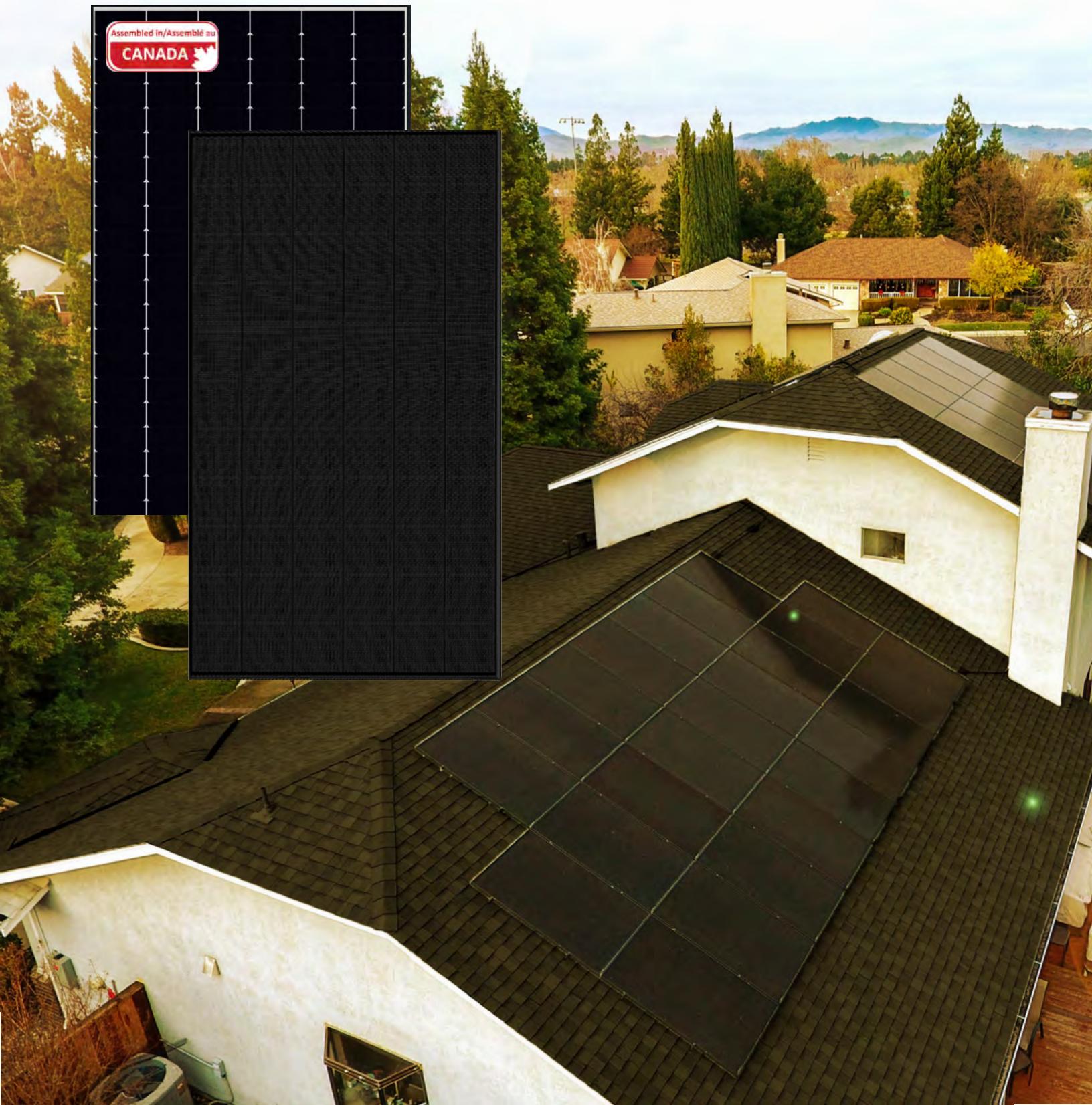


HiDM SHINGLED MODULE

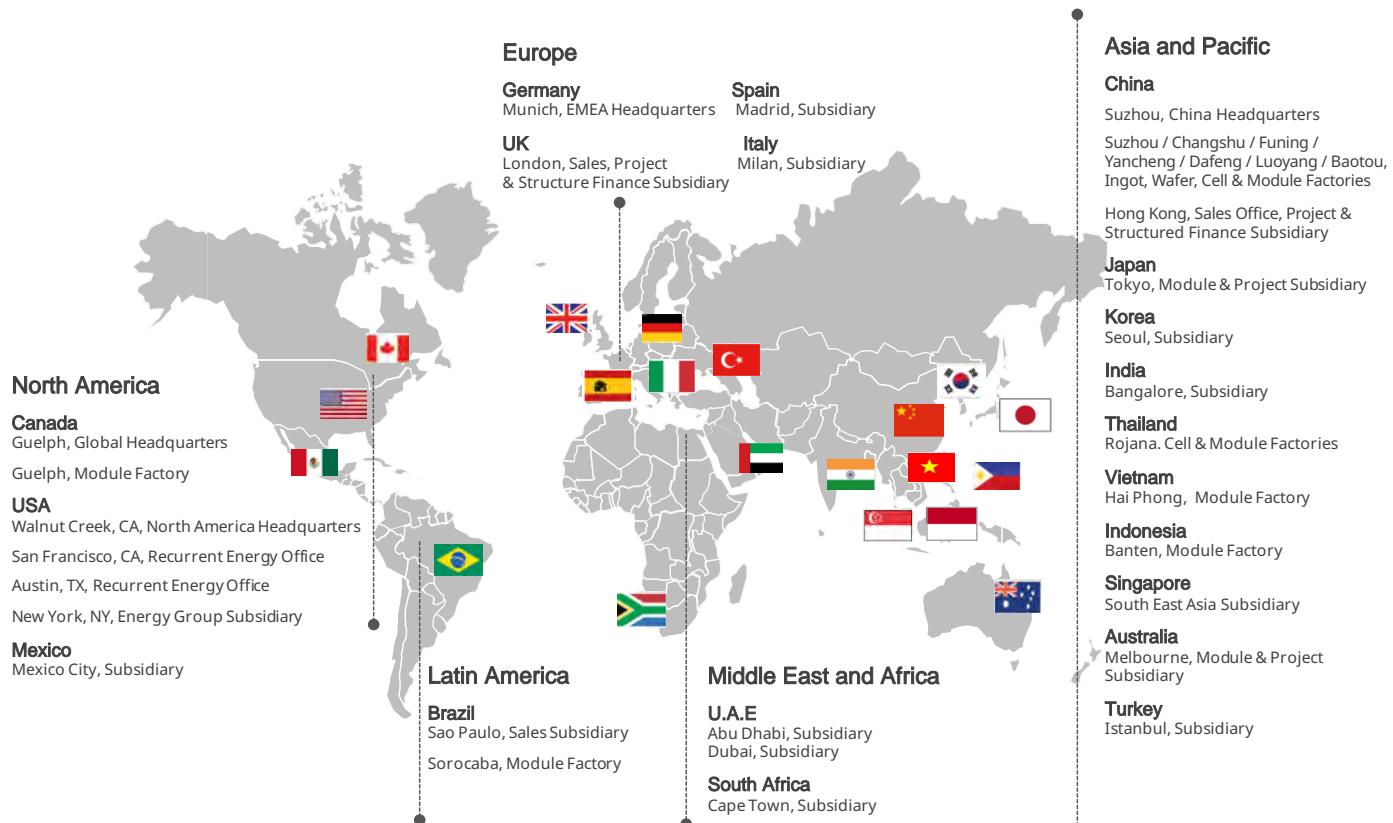
Solar Module Technology Revolution



19 Years' achievements

2001	Founded in Canada	2013	Rolled out ELPS (back contact MWT cell and module), world 1st in mass production
2002	Manufactured solar battery charger for Audi Volkswagen	2014	Delivered around 10 GW modules. Produced first Nano-scale texture black silicon cell in the world, eff. 18.5%
2005	Started mono module production for German market	2015	Bought Recurrent Energy from Sharp, acquired 4.5 GW project pipeline, and became 3rd largest solar project developer Started mono PERC cell production, eff. 21%
2006	IPO in NASDAQ (CSIQ), raised over \$100 million	2016	Mass production of black silicon texture cell, eff. 19%, capacity over 4 GW Began the production of dual-cell & HiDM cell modules
2007	Began cell production	2017	Began the mass production of poly PERC cell, with eff. > 20%
2008	Began ingot & wafer production; set up German subsidiary Developed UMG-Si (upgraded metallurgical grade silicon) material to lower production costs	2018	Began the production of multi-bus bar, Bifacial cells & modules Produced poly modules with > 400 W
2009	Set up Japan and USA operation, built the first solar project in Germany Developed ESE (enhanced selective emitter) cell technology	2019	Signs largest ever module supply agreement in company history, 1.8 GW, with EDF Renewables North America.
2010	Delivered 1 GW modules Launched double glass modules	2020	For third time, sets new world record for n-type multi-crystalline silicon cell efficiency: 23.81% Introduced mono modules up to 450 W Shipped over 40 GW modules accumulatively

Global Operations in 23 Countries



16 Factories worldwide

Modules to more than **150** countries

Winning Third Party Awards

No. 1 Module Supplier for Quality and Performance/Price Ratio in IHS Module Customer Insight Survey



No.1 silicon module solar plant developer by Greentech Media Research



Tier 1 Solar Company by Bloomberg New Energy Finance (BNEF)



Leading company in PV Triathlon of PHOTON



No.1 Renewable Energy Leader of Thomson Reuters



The Best PV Module Manufacturer Award in Brazil by SmartEnergy



The ELPS module is nominated for the Intersolar Award 2012 in photovoltaics category.



Best Structured Project Bond Award by Environmental Finance and J. Money





Benefits of HiDM Shingled Modules



Maximizes power generation and improves module efficiency up to 20.4%



Increases solar system energy yield through lower working temperature



Extends solar system daily generation hours due to strong shading tolerance



A more reliable and safer system with much lower hot spot risks



Aesthetic design with uniform no busbars appearance and blends into your roof



15 years enhanced product warranty on materials and workmanship



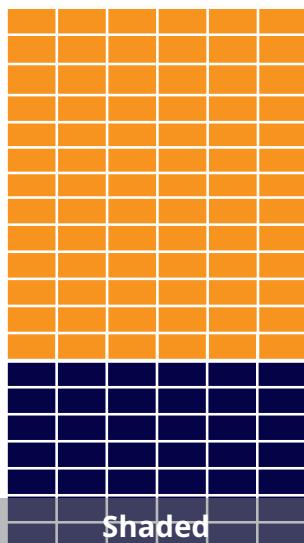
25 years linear power output warranty

Better Shading Tolerance

More power output from partially shaded module



Portrait installation

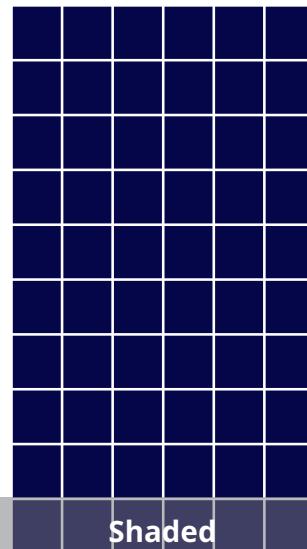


67% Output

33% power output reduction



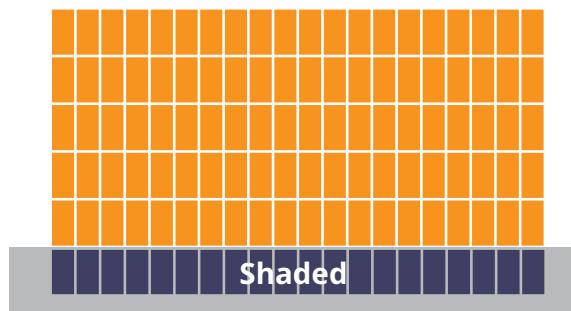
Conventional Module



0% Output

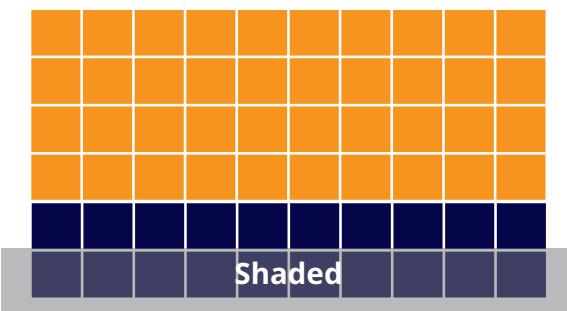
100% power output reduction

Landscape installation



83% Output

17% power output reduction

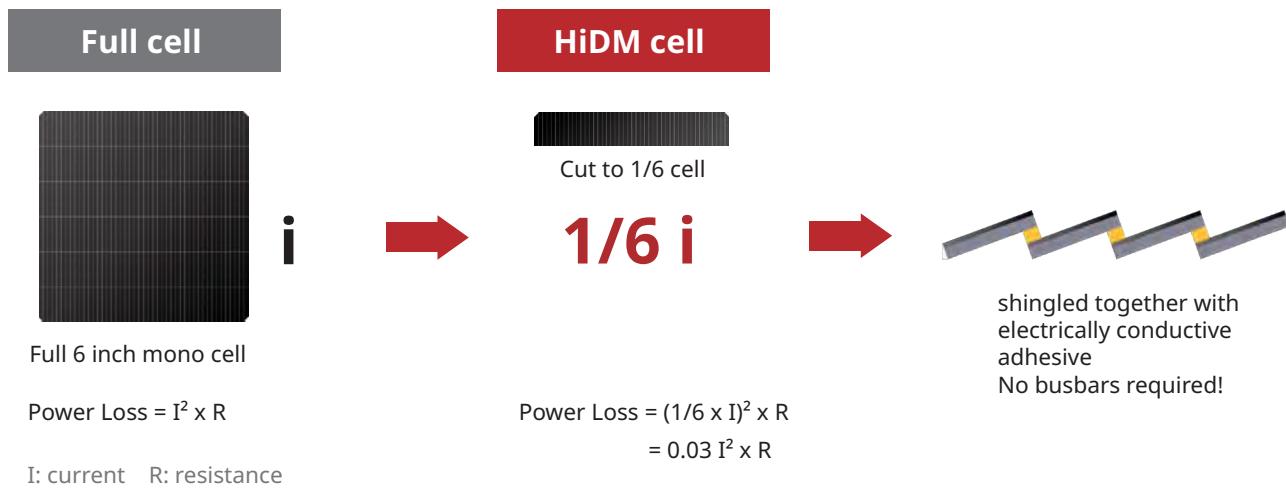


67% Output

33% power output reduction

Lower Internal Power Consumption Due to Lower Current

Reduce power loss by **97%** in each cell string

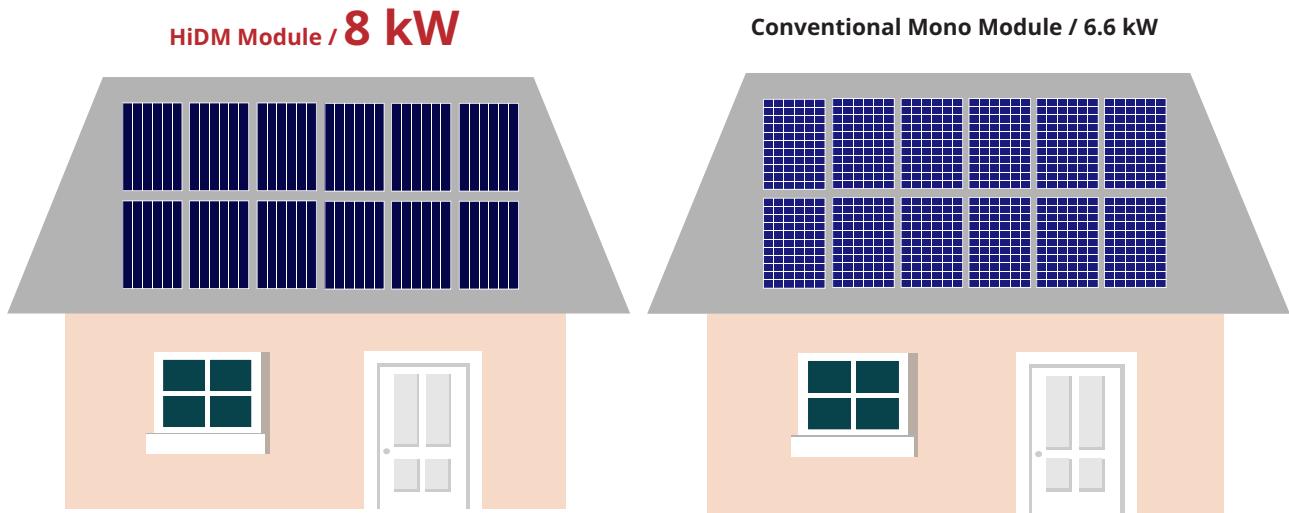


Module power output increase **20%**



Maximize Module Cell Surface

Higher energy yield on a given space



20 % more system capacity on a given rooftop using HiDM modules.

Canadian Solar HiDM Projects



"Canadian Solar HiDM modules blend in so well with my roof, plus they deliver the high efficiency and shade tolerance that my partially shaded roof needed to produce the most solar power. I've cut my electric bills down to almost zero and I have the peace of mind that comes from knowing the modules are backed by Canadian Solar's 25-year warranty."

- Homeowner, Livermore, CA USA

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