

Investor Presentation

Second Quarter 2017 Update

August 2017

CSIQ NASDAQ Listed

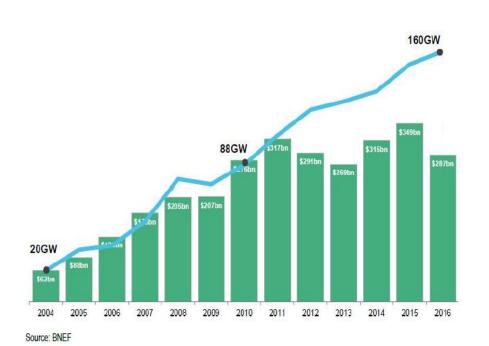
Safe Harbor Statement

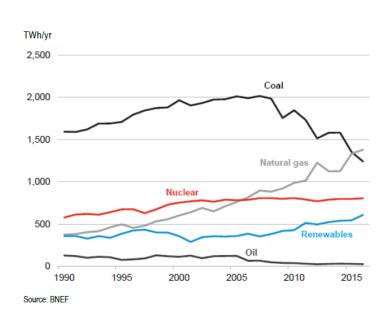
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Global Renewable Energy Installation Is Increasing

More Wind and Solar Globally for Less Dollars in 2016

US Power Generation by Source



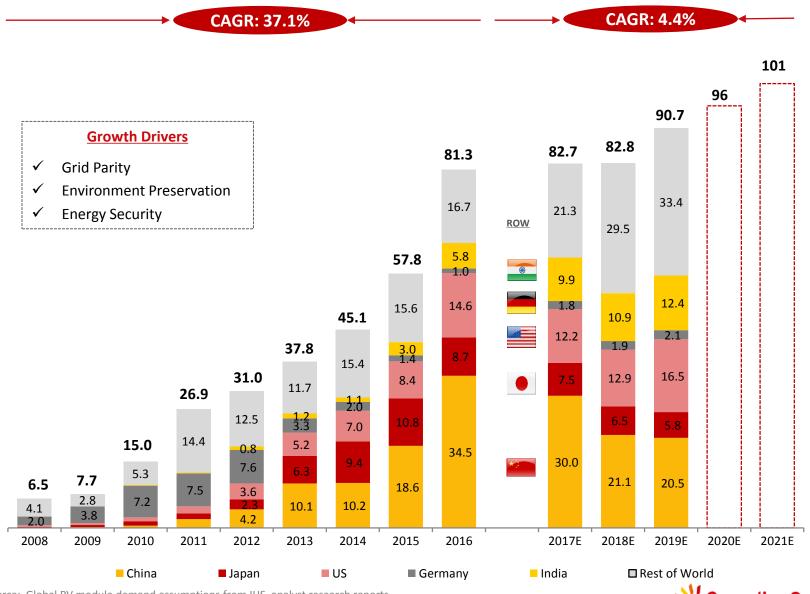


"Global investment in renewables (excluding large hydro) fell 17% to \$287 billion in 2016, though installations rose 9% to 160GW, underscoring the "more-for-less" benefit of falling cost/watt."

-- J.P. Morgan Analyst Research Report



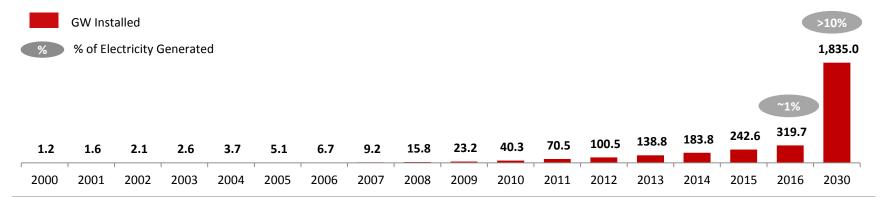
2016 Global Annual PV Installation Exceeded 81GW



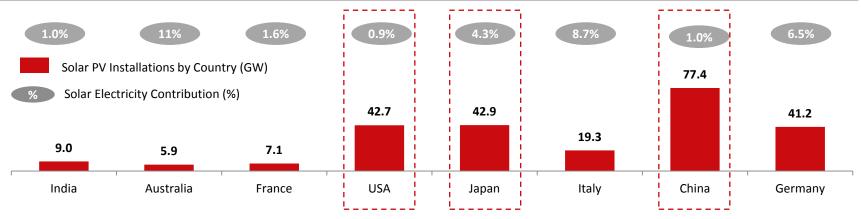
We Are at the Very Early Stages of Solar Adoption



Global Cumulative Solar PV Installations (GW)



Canadian Solar's key markets such as U.S., Japan and China are significantly under-penetrated



Source: EPIA, IHS, EIA, Canadian Solar Analysis; Cumulative Installations as of the year 2016.

Solar PV installed capacity is forecast to grow to over 1,835 GW in 2030.



Company Overview

- Founded in Ontario, 2001
- Listed on NASDAQ (CSIQ) in 2006
- Over 9,700 employees globally
- Presence in 18 countries / territories
- > > 22 GW of solar modules shipped cumulatively
- > 3.2 GWp solar power plants built and connected (incl. Recurrent)
- No. 1 Solar Company 2016 according to IHS

Highlights

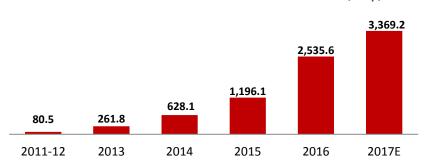
- Q2 2017 Revenue: \$692 million
- Q2 2017 Shipment: 1.75 GW
- Q3 2017 Shipment Guidance: 1.65 GW to 1.70 GW
- 2017 Shipment Guidance: 6.0 GW 6.5 GW

Global Footprint and Brand



Solar Power Plants Built and Connected

(MWp)





Energy Business: Globally Diversified Project Pipeline



9.5 **GWp**

Total project development pipeline

8.1 GWp

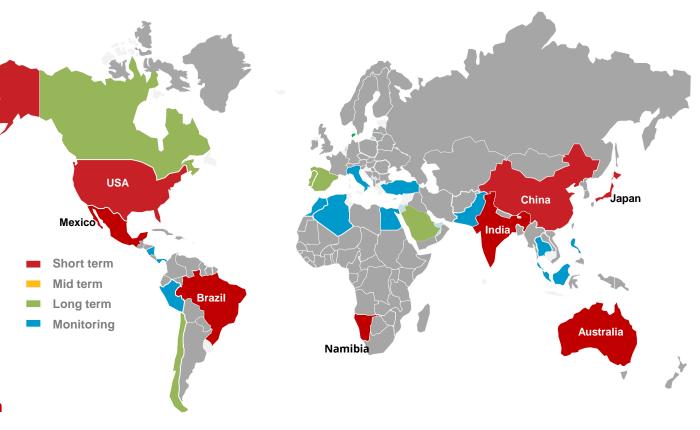
Early to mid-stage development pipeline (2)

~1.4 GWp

Total contracted / late-stage project pipeline (1)

~1,260 MWp

Solar power plants owned and operated, with an estimated total resale value of approximately \$1.8 billion



362 MWp
Japan (1)

120 MWp U.S. ⁽¹⁾

210 MWp China (1) 399 MWp

108 MWp

118 MWp
Australia (1)

68 MWp
Mexico (1)

6 MWp
Africa (1)

Source: Company information as of August 14, 2017

Note: (1) Late-stage project and EPC contract pipeline, nearly all projects have an energy off-take agreement and are expected to be built within the next 2-4 years. Some projects may not reach completion due to failure to secure permits or grid connection, among other risk factors.

(2) Early to mid-stage of development: includes only those projects that have been approved by our internal Investment Committee or projects that are expected to be brought to the Investment Committee in the near term.



Project Summary

Late-stage Projects Expected COD Schedule

			Expected COD Selleddie			
Country/Region	Plants In Operation at 06/30/2017	Plants In Operation at 07/31/2017	Q3'17	Q4'17	2018 and After	Total Late-stage Projects
			(Gross N	lWp)		
US	808	808	92	-	28	120
China	186.7	186.7	-	10	200	210
UK	150	150	-	-	-	-
Japan	110.5	110.5	30	21.4	311	362.4
Spain	5	5	-	-	-	-
Brazil	-	-	191.5	92.5	115	399
Mexico	-	-	-	-	68	68
India	-	36	-	108	-	108
Australia	-	-	5	-	113	118
Africa	-	-	6	-	-	6
Total Gross MWp	1,260.2	1,296.2	324.5	231.9	835	1,391.4

Source: Company information as of August 14, 2017



Market Leader in the U.S.



U.S. Project Development Business Footprint

Including Recurrent Energy across North America

3.3 GWp

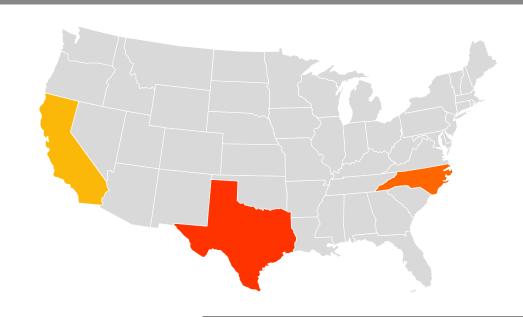
Early to mid-stage pipeline

120 MWp

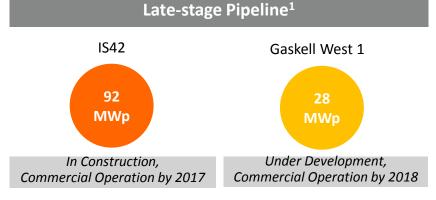
Late-stage pipeline¹

808 MWp

Owned and operated²









^{1.} Includes all of Canadian Solar and Recurrent Energy's (US only) projects developed and in construction

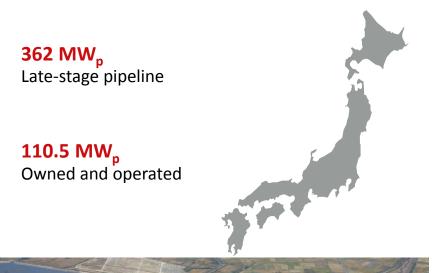
^{2.} Gross MWp owned by Canadian Solar;

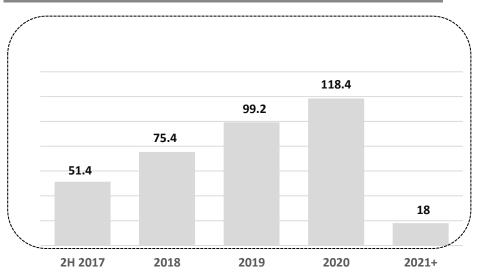
Japan Utility-scale Solar Project Pipeline



Total Solutions Business – Japan

Utility-scale COD Schedule¹ - MWp





Note: (1) Expected COD are tentative estimates subject to change, due to delays in securing all the necessary permits among other risk factors.

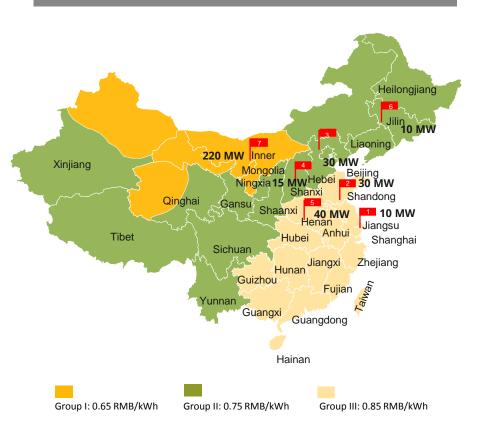
- 362 MWp of projects have secured the interconnection agreements, including 159 MWp in construction and 203
 MWp under development
- Projects in the bidding process 210 MWp



China Utility-scale Solar Project Pipeline



Energy Business – China



	Province	Late-stage Project Opportunity (MW _P)	Early to mid- stage Project Opportunity (MW _P)	Feed-in Tariff (RMB/kWh)
1	Jiangsu	-	10	0.85
2	Shandong	10	20	0.85
3	Hebei	-	30	0.75
4	Shanxi	-	15	0.75 to 0.85
5	Henan	-	40	0.85
6	Jilin	-	10	0.75
7	Inner Mongolia	200 (1)	20	0.50 to 0.59
	Total	210	145	

Note: (1) Two Top Runner Projects, 100 MWp each in size.

Source: Company information as of August 14, 2017



Brazil Utility-scale Solar Project Pipeline



Late-stage Pipeline

Project	Gross MWp	Status	Expected COD
Pirapora I ⁽¹⁾	191.5	Construction	2017
Pirapora II (1)	115	Development	2018
Pirapora III (2)	92.5	Construction	2017
Total	399		



Canadian Solar has completed the sale of an 80% interest in each of the Pirapora projects to EDF EN and supplies modules for all these projects.

Source: Company information as of August 14, 2017

Module Business: Global Footprint With Diversified Customer Base

> 22 GW

cumulative modules sold to date

Customers in over 100 countries

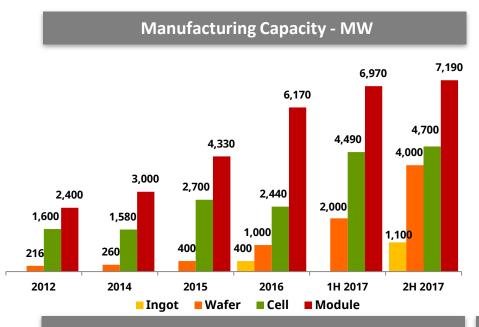
with offices in 18 countries



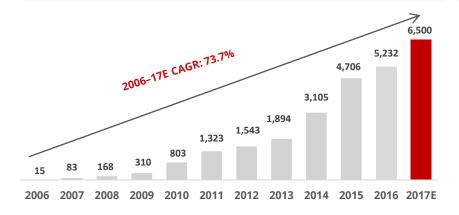
Sales Breakdown by Region



Capacity Expansion to Optimize Technology and Cost

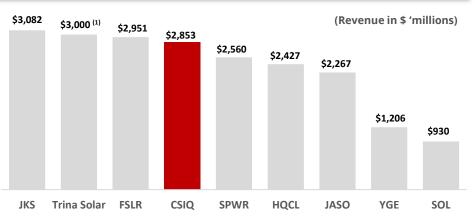


Total Module Shipments - MW



- Technology upgrade New products, new process, new design
 - ✓ Diamond wire-saw wafer
 - ✓ Black silicon
 - ✓ Mono PERC
 - ✓ Black silicon + PERC
- Global Manufacturing Footprint
 - ✓ Brazil
 - Canada
 - ✓ China
 - ✓ Indonesia
 - ✓ South East Asia
 - ✓ Vietnam
- Operation efficiency improvements: Shorter cycle time and lower inventory

Top 4 Solar Energy Solutions Company by Revenue in 2016



Source: Company information Note: (1) based on IHS estimate

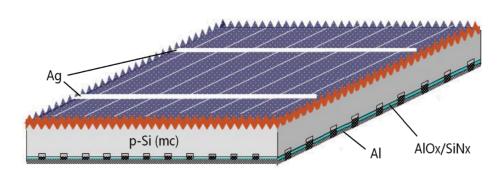


Competitive Pipeline of Homegrown Technologies

Poly Gen3



Mono PERC

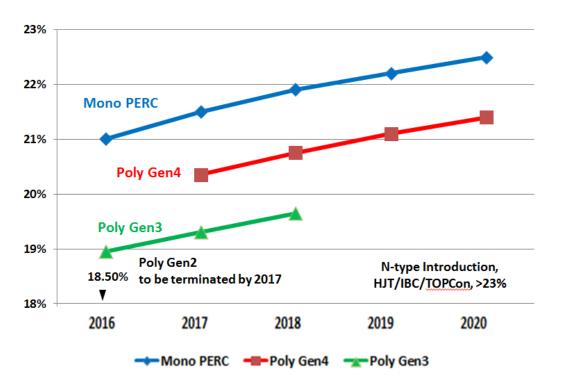


- 0.4% cell efficiency and 4 watts module power gain over baseline; cell efficiency to reach over 19% in mass production
- ✓ Over 4 years in-house R&D, self-owned IPs
- Pleasing aesthetics

- Mono PERC enhances back side passivation and increases cell efficiency to 21%
- Low Light Induced Degradation (LID), and Potential Induced Degradation (PID) resistant

Cell Efficiency Roadmap





Highlights

- Gen3 nano-texturing technology paves the way for using diamond-wire saw wafer in multi-crystalline cell production
- Gen4 will improve the multi-crystalline cell efficiency to above 21.4% by 2020
- Mono PERC cell efficiency can reach above 22.5% in mass production by 2020
- PERC technology is expected to fully replace Al BSF by the end of 2018

Source: Company information as of August 14, 2017

Experienced Board & Senior Management

•				
	Name / Title	Work Experience		
	Dr. Shawn Qu Chairman, President & CEO (Director)	 Founded Canadian Solar in 2001, and has since then, firmly established the company as a global leader of the solar industry Director & VP at Photowatt International S.A. Research scientist at Ontario Hydro (Ontario Power Generation Corp.) 		
	Dr. Huifeng Chang SVP, Chief Financial Officer	 Co-Head of Sales & Trading at CICC US in New York CEO of CSOP Asset Management in Hong Kong Vice President of Citigroup Equity Proprietary Investment in New York 		
1	Yan Zhuang SVP and Chief Commercial Officer	 Head of Asia of Hands-on Mobile, Inc. Asia Pacific regional director of marketing planning and consumer insight at Motorola Inc. 		
	Guangchun Zhang SVP and Chief Operating Officer	 Vice President for R&D and Industrialization of Manufacturing Technology at Suntech Power Holdings Centre for Photovoltaic Engineering at the University of New South Wales and Pacific Solar Pty. Limited. 		
	Arthur Chien SVP and Chief Strategic Officer	 CEO at Talesun Solar Co., CFO at Canadian Solar Inc. Managing director of Beijing Yinke Investment Consulting Co. Ltd. Chief financial officer of China Grand Enterprises Inc. 		
	Jianyi Zhang SVP and Chief Compliance Officer	 Senior advisor to several Chinese law firms Senior assistant general counsel at Walmart Stores, Inc. Managing Partner at Troutman Sanders LLP 		
ors	Robert McDermott Chairperson of the Corporate Governance, Nominating and Compensation Committees	 Partner with McMillan LLP, a business and commercial law firm Director and senior officer of Boliden Ltd. 		
Dire	Lars-Eric Johansson Chair of the Audit and member of Governance, and Compensation Committees	CEO of Ivanhoe Nickel & Platinum Ltd.Chairperson of the Audit Committee of Harry Winston Diamond		
	Dr. Harry E. Ruda Chair of Technology and member of the Audit, Governance, Compensation Committees	 Director of the Centre for Advanced Nanotechnology, Stanley Meek Chair in Nanotechnology and Prof. of Applied Science and Engineering at the University of Toronto, Canada 		



Senior Advisor to Board of Directors of Henderson Land Development Co.

Shenzen Yantian Port (Group) Co. Ltd.

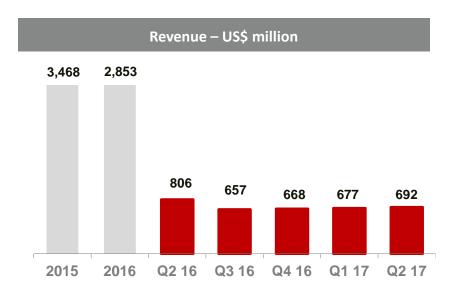
■ Director of Ace Life Insurance Co. Ltd., China CITIC Bank Corp., Intime Retail (Group) Co. Ltd. And

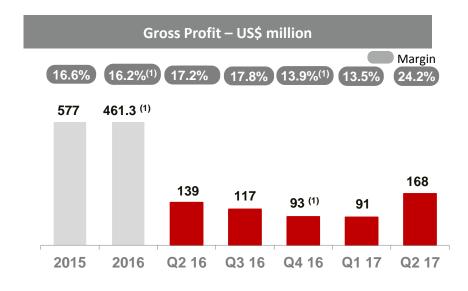
Andrew Wong

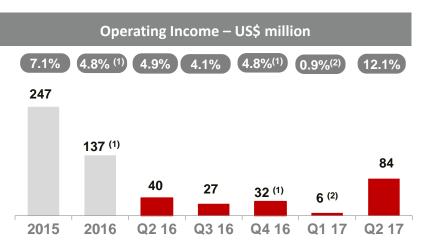
Compensation Committees

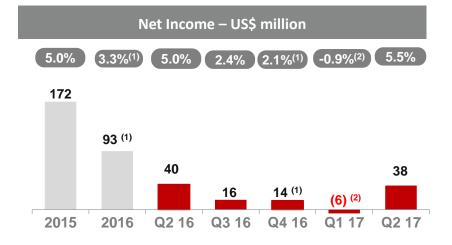
Member of the Audit, Corporate Governance,

Income Statement Summary







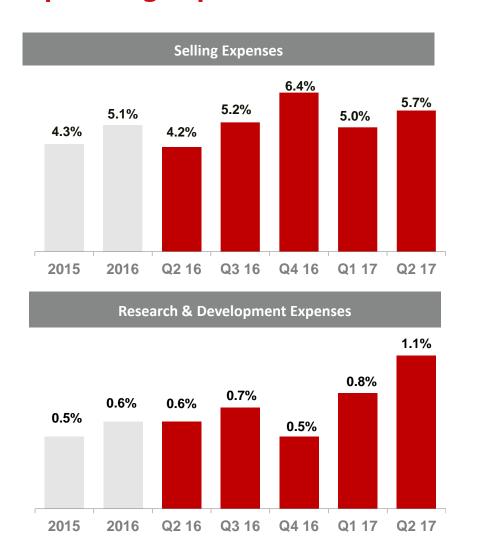


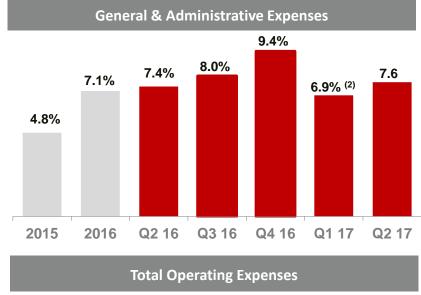
Source: Company filings

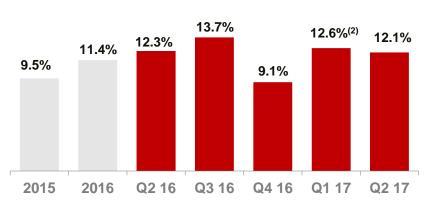
Note: (1) Non-GAAP adjusted numbers, excluding the AD/CVD true-up provision of \$44.1 million

⁽²⁾ Non-GAAP adjusted numbers, adjusted to exclude a one-time provision of \$8.6 million and net of income tax effect

Operating Expenses as % of Net Revenue







Source: Company filings

Note: Percentages are of the total net revenue in the corresponding period.

(2) Non-GAAP adjusted numbers, adjusted to exclude a one-time provision of \$8.6 million

Guidance as of August 14, 2017

	Q2 2017	Q3 2017
Module Shipments	1,745 MW	1,650 MW to 1,700 MW
Revenue	\$692 mn	\$805 mn to \$825 mn
Gross Margin	24.2% ⁽¹⁾	15% to 17% ⁽¹⁾

FY2016	FY2017	ΥοΥ Δ%
5,232 MW	6.0 GW to 6.5 GW	+24.2%
\$2.85 bn	NA	NA
NA	NA	NA

¹⁻Includes module business and project business



THANK YOU!

August 2017