

Investor Presentation

Third Quarter 2017 Update

November 2017

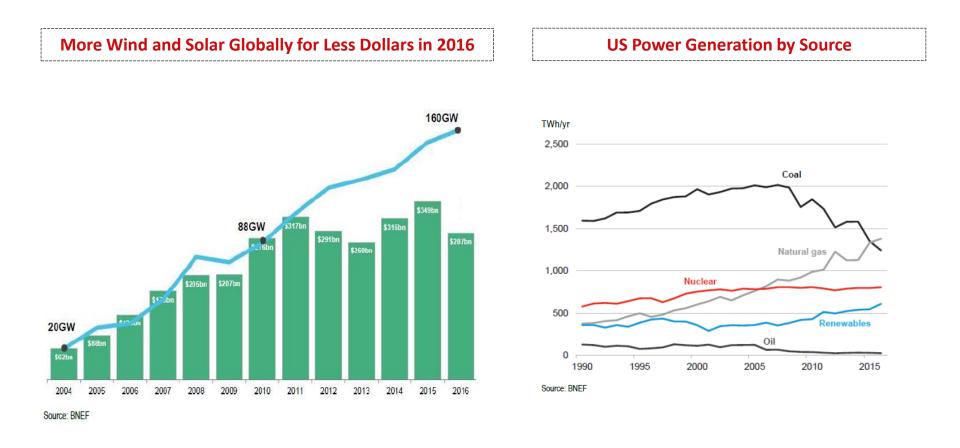
CSIQ NASDAQ Listed

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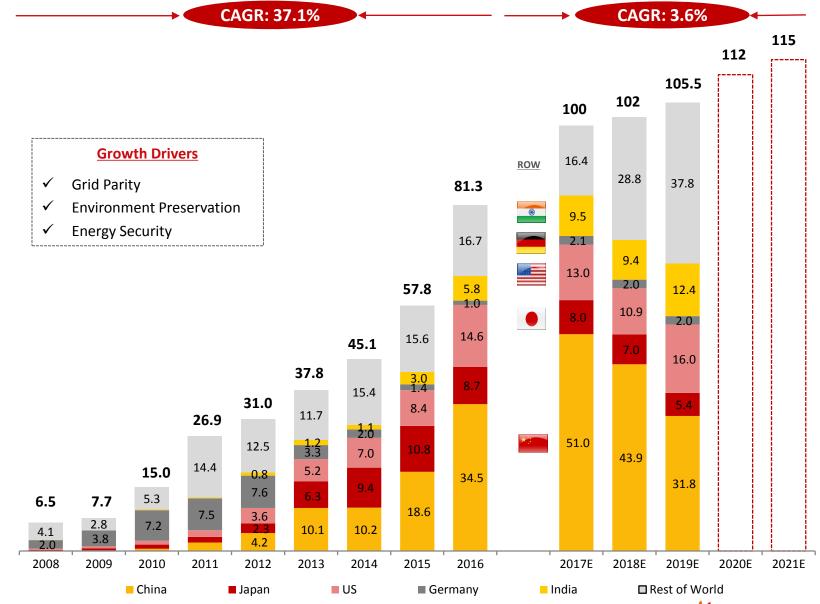
Global Renewable Energy Installation Is Increasing



"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



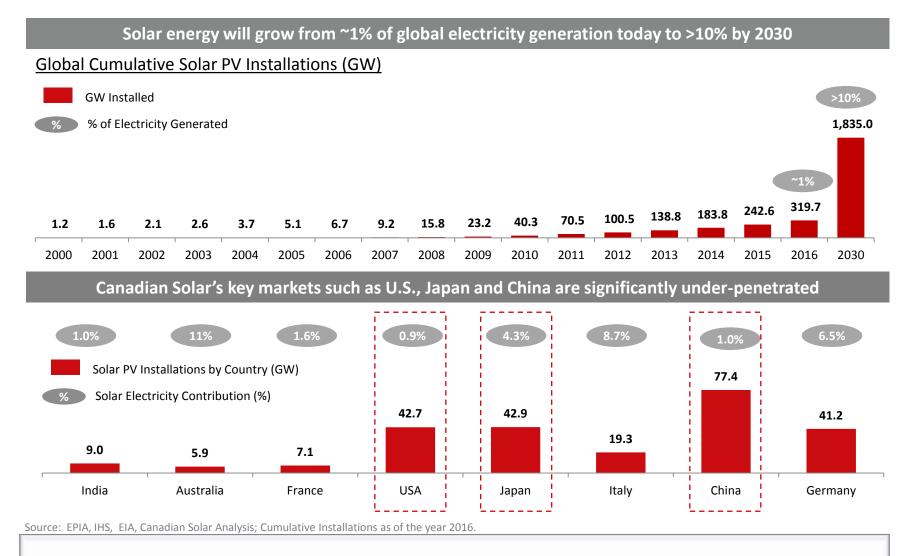
2017 Global Annual PV Installation Expected to Reach 100 GW



Source: Global PV module demand assumptions from IHS, analyst research reports



We Are at the Very Early Stages of Solar Adoption



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 11,000 employees globally
- Presence in 18 countries / territories
- > 24 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

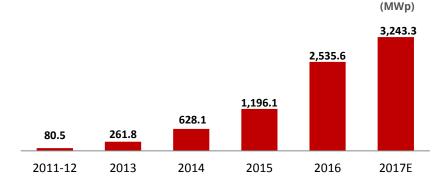
Highlights

- Q3 2017 Revenue: \$912.2 million
- Q4 2017 Shipment Guidance: 1.65 GW to 1.75 GW
- Q4 2017 Revenue Guidance: \$1.77 billion to \$1.81 billion
- 2017 Shipment Guidance: 6.7 GW 6.8 GW
- 2017 Revenue Guidance: \$4.05 billion to \$4.09 billion

Global Footprint and Brand



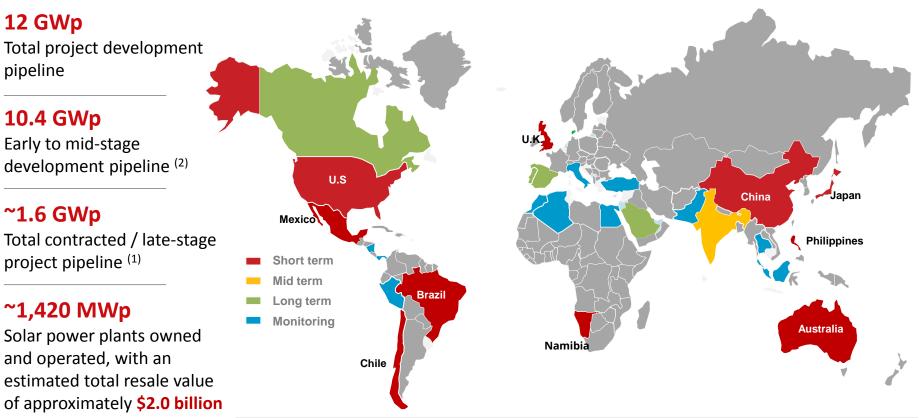
Solar Power Plants Built and Connected





Energy Business: Globally Diversified Project Pipeline

Priority Markets for Utility-scale Project Development



Late-stage, utility-scale solar project pipeline (MWp)									
<u>China</u>	Japan	<u>Brazil</u>	<u>U.S.</u>	<u>Australia</u>	Mexico	<u>Chile</u>	Philippines	<u>Africa</u>	<u>U.K.</u>
416	344.5	326.4	238	117	68	41	22	18	8

Source: Company information as of November 9, 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.



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Project Summary

Late-stage Projects Expected COD Schedule

Country/Region	Plants In Operation at 09/30/2017	Q4'17	2018 and After	Total Late-stage Projects	
		((Gross MWp)		
US	900	-	238	238	
China	188.7	16	400	416	
UK	150	-	8	8	
Japan	139.8	19.1	325.4	344.5	
Spain	5	-	-	-	
Brazil	-	130.8	195.6	326.4	
Mexico	-	-	68	68	
India	36	-	-	-	
Australia	-	-	117	117	
Chile	-	-	41	41	
Philippines	-	-	22	22	
Africa -		6	12	18	
Total Gross MWp	1,419.5	171.9	1,427	1,598.9	

Source: Company information as of November 9, 2017



Market Leader in the U.S.



U.S. Project Development Business Footprint

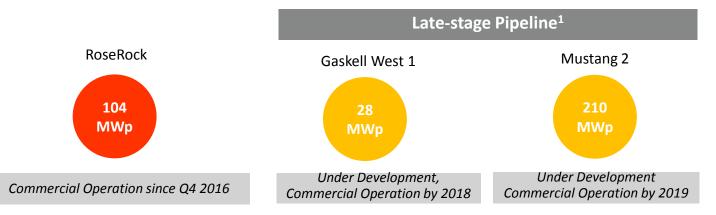
Including Recurrent Energy across North America

5.2 GWp Early to mid-stage pipeline

238 MWp Late-stage pipeline¹

900 MWp Owned and operated²



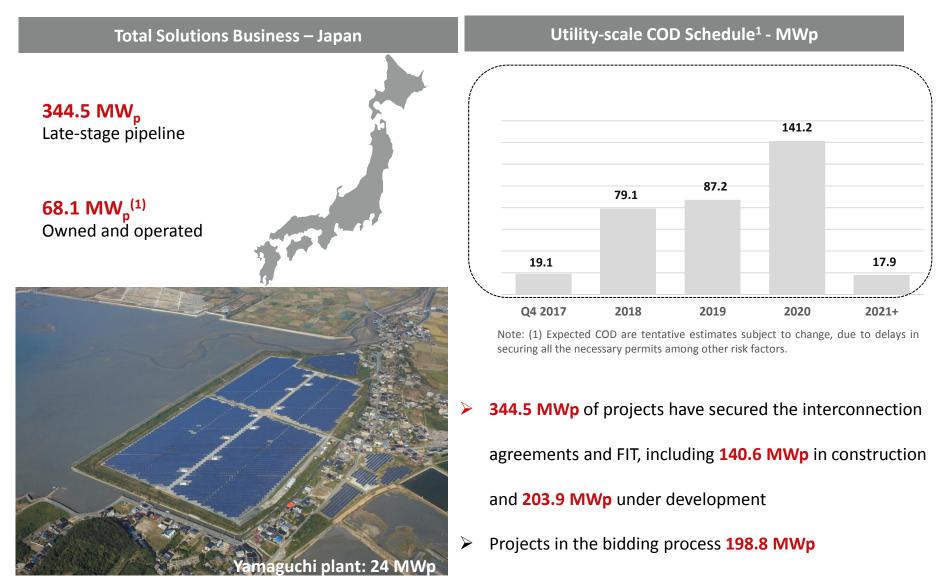


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1. Includes all of Canadian Solar and Recurrent Energy's (US only) projects developed and in construction 2. Gross MWp owned by Canadian Solar;

Japan Utility-scale Solar Project Pipeline





Source: Company information as of November 9, 2017 Note: (1) Plants in operation after the sale of 72.7 MWp of operating plants to Canadian Solar Infrastructure Fund, Inc. in October 2017.



China Utility-scale Solar Project Pipeline



Energy Business – China



	Province	Late-stage Project Opportunity (MW _P)	Feed-in Tariff (RMB/kWh)
1	Jiangsu	10	0.85
2	Shandong	15	0.85
3	Hebei	16	0.75
4	Shanxi	40	0.75
5	Henan	100	0.85
6	Jilin	15	0.75
7	Inner Mongolia	220 (1)	0.50 to 0.65
	Total	416	

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

Source: Company information as of November 9, 2017



Brazil Utility-scale Solar Project Pipeline



Late-stage Pipeline Project **Gross MWp** Status **Expected COD** Guimarania⁽¹⁾ Development 80.6 2018 Pirapora I⁽¹⁾ 38.3* Commissioned 2017 Pirapora II ⁽¹⁾ 115 Construction 2018 Pirapora III ⁽²⁾ 92.5 Construction 2017 Total 326.4



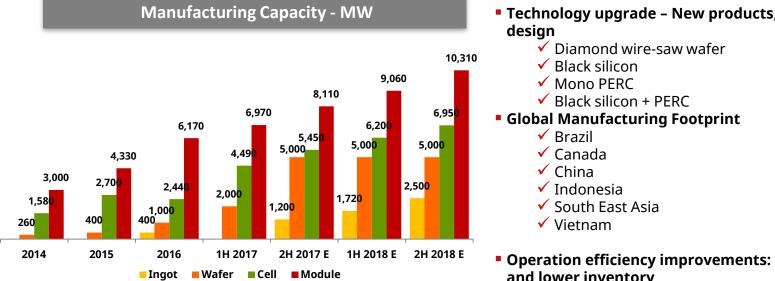
Canadian Solar has completed the sale of an 80% interest in each of the Pirapora projects to EDF EN and supplies modules for all these projects.

Source: Company information as of November 9, 2017

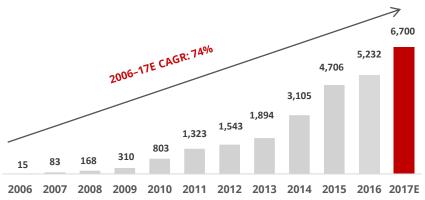
*38.3 MWp represents the Company's 20% equity interest in 191.5 MWp Pirapora I project.



Capacity Expansion to Optimize Technology and Cost

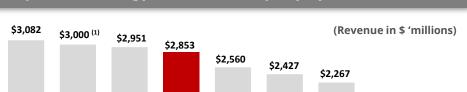


Total Module Shipments - MW

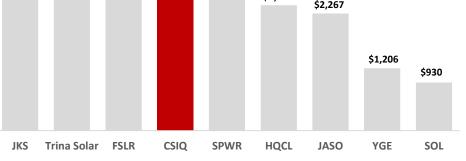


Technology upgrade – New products, new process, new

Operation efficiency improvements: Shorter cycle time and lower inventory



Top 4 Solar Energy Solutions Company by Revenue in 2016

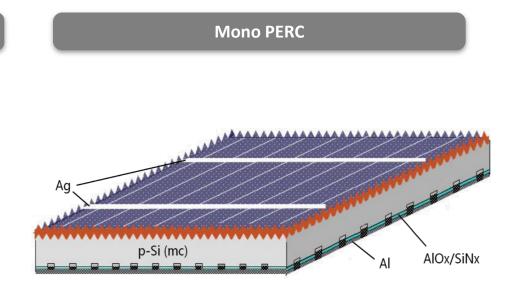


Source: Company information Note: (1) based on IHS estimate



Competitive Pipeline of Homegrown Technologies



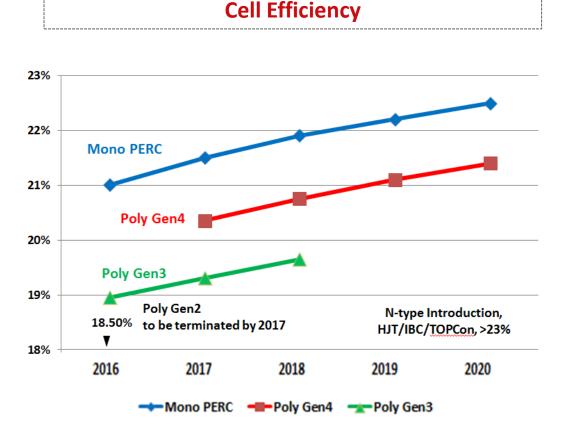


- 0.4% cell efficiency and 4 watts module power gain over baseline; cell efficiency to reach over 19% in mass production
- Over 4 years in-house R&D, self-owned IPs
- № 100% in-house multi cell production (~4GW) using this technology by the end of 2017
- 🧩 Pleasing aesthetics

- Mono PERC enhances back side passivation and increases cell efficiency to 21%
- ✓ Low Light Induced Degradation (LID), and Potential Induced Degradation (PID) resistant
- Premium product: 60-cell module power to reach over 300 Watt
- 100% mono cell production to be upgraded to mono PERC by the end of 2017



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



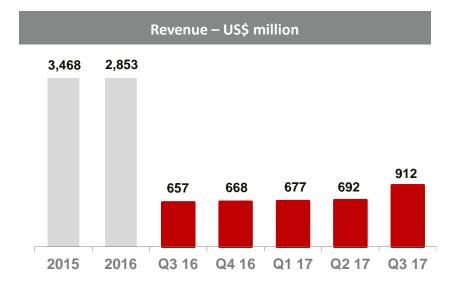


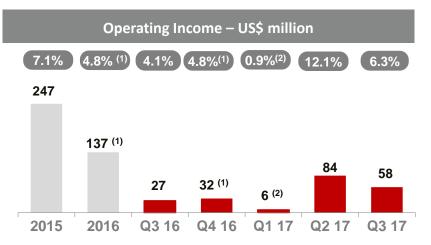
Experienced Board & Senior Management

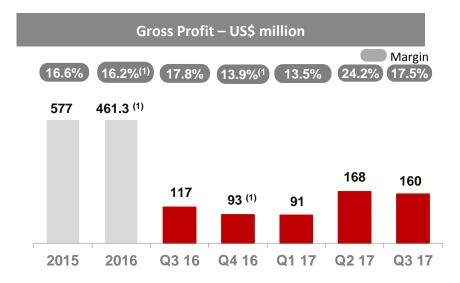
	Name / Title	Work Experience				
A	Dr. Shawn Qu Chairman, President & CEO (Director)	 Founded Canadian Solar in 2001, and has since then, firmly established the company as a global leader of the solar industry Director & VP at Photowatt International S.A. Research scientist at Ontario Hydro (Ontario 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 				
R	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. 				
O	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 				
Experienced Independent Directors	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. 				
	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 				
	Andrew Wong Member of the Audit, Corporate Governance, Compensation Committees	 Senior Advisor to Board of Directors of Henderson Land Development Co. Director of Ace Life Insurance Co. Ltd., China CITIC Bank Corp., Intime Retail (Group) Co. Ltd. And Shenzen Yantian Port (Group) Co. Ltd. 				

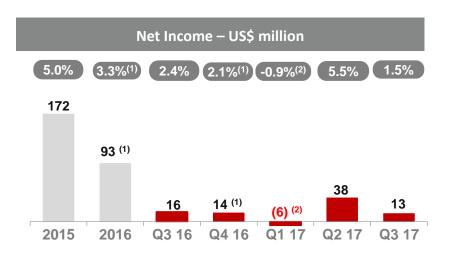


Income Statement Summary









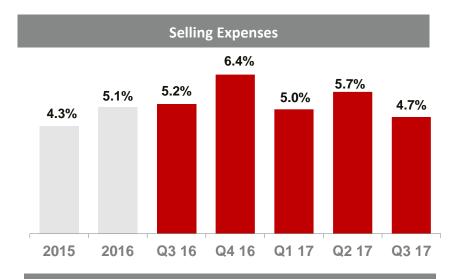
Source: Company filings

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

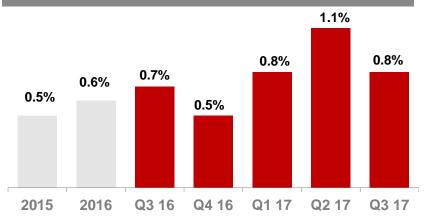
(2) Non-GAAP adjusted numbers, adjusted to exclude a one-time provision of \$8.6 million and net of income tax effect

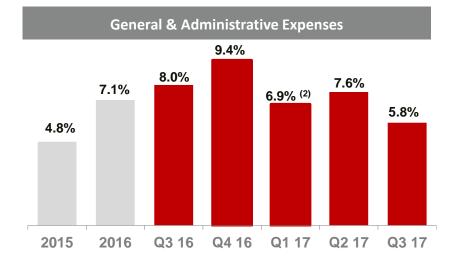


Operating Expenses as % of Net Revenue



Research & Development Expenses





Total Operating Expenses



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

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Guidance as of November 9, 2017

	Q3 2017	Q4 2017	FY2016	FY2017	ΥοΥ Δ%
Module Shipments	1,870 MW	1,650 MW to 1,750 MW	5,232 MW	6.7 GW to 6.8 GW	+28%
Revenue	\$912.2 mn	\$1.77 bn to \$1.81 bn	\$2.85 bn	\$4.05 bn to\$4.09 bn	+42%
Gross Margin	17.5% ⁽¹⁾	10.5% to 12.5% ⁽¹⁾	NA	NA	NA

1-Includes module business and project business





THANK YOU!

November 2017

