

Investor Presentation

Fourth Quarter 2016 Update

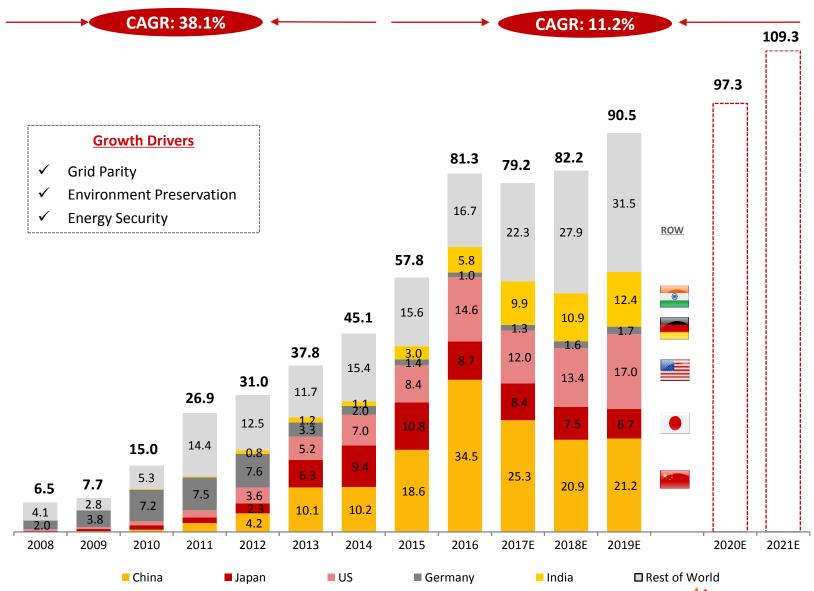
March 2017

CSIQ NASDAQ Listed

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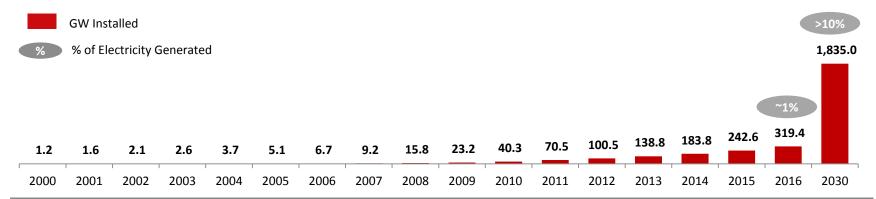
2016 Global Annual PV Installation Exceeding 81GW



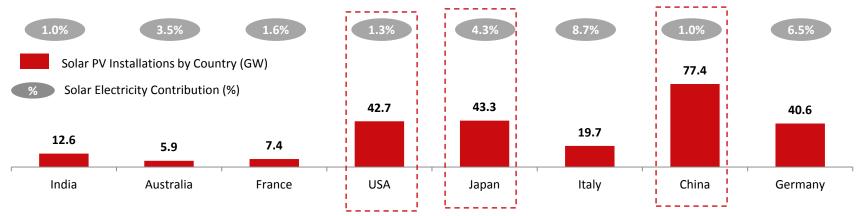
We Are at the Very Early Stages of Solar Adoption



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; Information as of March 21, 2017

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
- > 19 GW of solar modules shipped cumulatively
- > > 2.5 GWp solar power plants built and connected (incl. Recurrent)
- No. 1 Solar Company 2016 according to IHS

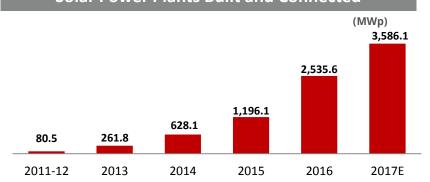
Global Footprint and Brand



Highlights

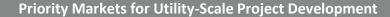
- **2016** Revenue: **\$2.85** Billion
- 2016 Shipments: 5.2 GW
- 2017 Shipment Guidance: 6.5 GW 7.0 GW
- 2017 Revenue Guidance: \$4.0 Billion \$4.2 Billion
- 2017 New Solar Projects COD Guidance: 1.0 GW to 1.2 GW

Solar Power Plants Built and Connected





Energy Business: Globally Diversified Project Pipeline



9.8 **GWp**

Total project development pipeline

7.7 GWp

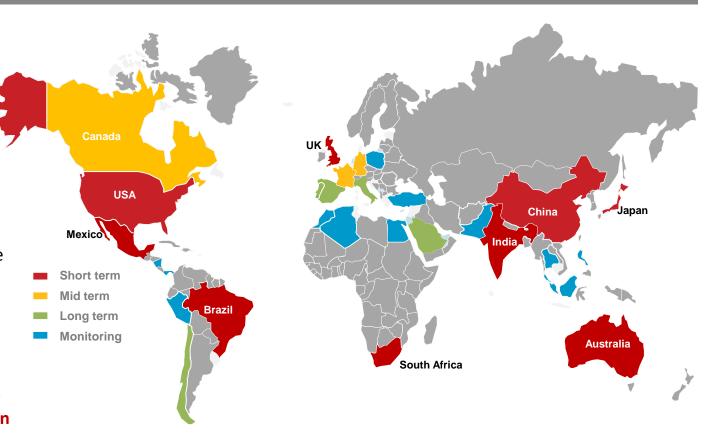
Early to mid-stage development pipeline (2)

~2.1 GWp

Total contracted / late-stage project pipeline⁽¹⁾

~1,196 MWp

Solar power plants owned and operated, with an estimated total resale value of approximately \$1.6 billion



538.5 MWp

401 MWp 400 MWp

399 MWp

132 MWp

118 MWp

68 MWp

26 MWp

6 MWp

Japan (1)

U.S. (1)

China (1)

Brazil (1)

India (1)

Australia (1)

Mexico (1)

U.K. (1)

Africa (1)

Source: Company information as of March 21, 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 Schedule				
Country/Region	Plants In Operation at 02/28/2017	Q1'17	2017	2018 and After	Total Late-stage Projects	
			(Gross MV	/p)		
US	808	-	92	309	401	
China	198	16.5	400	-	400	
UK	125	26	26	-	26	
Canada	-	-	-	-	-	
Japan	59.5	5	105.5	433	538.5	
Spain	5	-	-	-	-	
Brazil	-	-	284	115	399	
Mexico	-	-	-	68	68	
India		-	132		132	
Australia		-	5	113	118	
Africa	-	-	6		6	
Total Gross MWp	1,195.5	47.5	1,050.5	1,038	2,088.5	
Gross Resale Value (\$ in M)	\$ 1,600	\$ 77.5	\$ 1,118	\$ 1,937.5	3,055.5	

Market Leader in the U.S.



U.S. Project Development Business Footprint

Includes Recurrent Energy Across North America

3.2 **GWp**

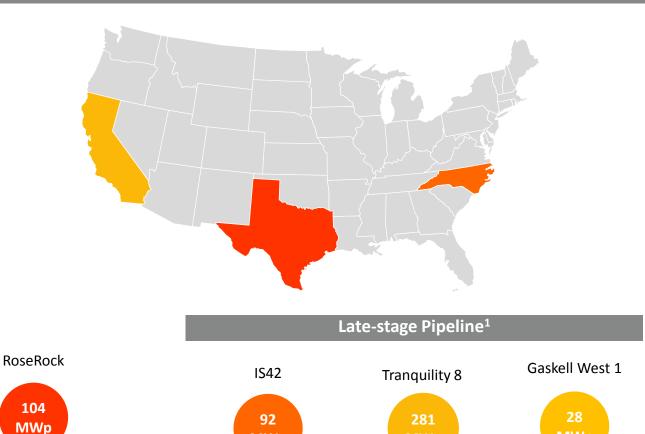
Early-stage pipeline

401 MWp

Late-stage pipeline¹

808 MWp

Owned and operated²



MWp

Commercial Operation by 2018

MWp



Commercial Operation since Q4 2016

Commercial Operation by 2017

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

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

Japan Utility-scale Solar Project Pipeline

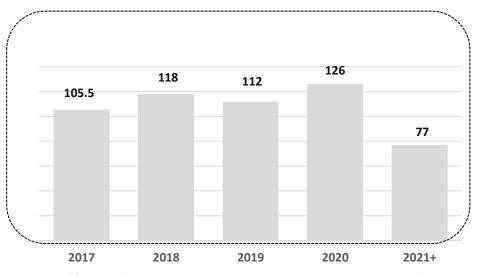


Total Solutions business – Japan

538.5 MW_p Late-stage pipeline 59.5 MW_p Owned and operated

Yamaguchi plant: 24 MWp

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.

- Projects in construction and under development that have executed interconnection agreement 375 MWp
- Projects in construction 211.8 MWp
- Projects ready-to-build 15 MWp
- By April 1, 2017, additional projects with signed interconnection agreements 28 MWp
- Projects with a total capacity of 71.4 MWp will participate in a bid for a utility upgrades and will keep their current FIT while the bid process is underway



China Utility-scale Solar Project Pipeline



Energy Business – China



	Province	2017 Late Stage Project Opportunity (MW _P)	Feed In Tariff (RMB/kWh)
1	Jiangsu	50	0.75
2	Shandong	10	0.98
3	Hebei	20	0.75
4	Shanxi	30	0.75 to 0.85
5	Henan	45	0.75
6	Sichuan	20	0.75
7	Jilin	25	0.75
8	Inner Mongolia (1)	200	0.50 to 0.59
	Total	400	

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

Source: Company information as of March 21, 2017



Brazil Utility-scale Solar Project Pipeline



Late-stage Pipeline

Project	Gross MWp	Status	Expected COD	
Pirapora I (1)	192	Construction	2017	
Pirapora II (1)	115	Development	2018	
Pirapora III ⁽²⁾	92	Development	2017	
Total	399			



The Company completed the sale of 80% interest in Pirapora I in the fourth quarter of 2016, and is supplying modules for this project.

Source: Company information as of March 21, 2017

Utility-scale Solar Power Plants Monetization Progress

Monetization Schedule

Country	MWp	Target Sale Date
China	70	1H 2017
U.S.	703	2017
Japan	70	IPO of JREIT in Q3 2017

- In the U.S., we continue to make progress on the sales of our operating solar power plants asset, which we expect to complete in 2017.
- In Japan, we continue to work to form a solar
 J-REIT to be listed in Tokyo exchange and are
 currently targeting the IPO of the J-REIT in Q3
 of 2017.

We are well on track to monetize our utility-scale solar power plants in various countries.

Source: Company information as of March 21, 2017



Module Business: Global Footprint With Diversified Customer Base

> 19.0 GW

cumulative modules sold to date

Customers in over 90 countries

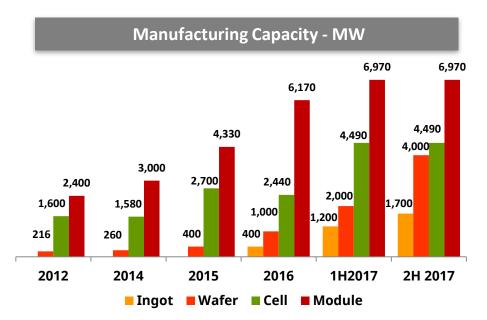
with offices in 18 countries



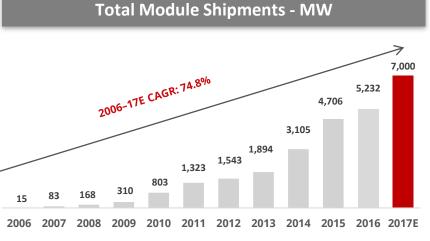
Sales breakdown by region



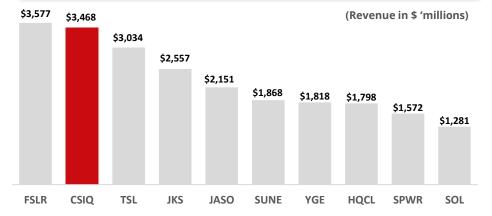
Capacity Expansion to Optimize Technology and Cost



- Technology upgrade New products, new process, new design
 - ✓ Diamond wire saw wafer
 - ✓ Black silicon
 - ✓ Mono PERC
 - ✓ Super 5
- Global Manufacturing Footprint
 - ✓ Brazil
 - ✓ Canada
 - ✓ China
 - ✓ Indonesia
 - ✓ South East Asia
 - ✓ Vietnam
- Operation efficiency improvements: Shorter cycle time and lower inventory

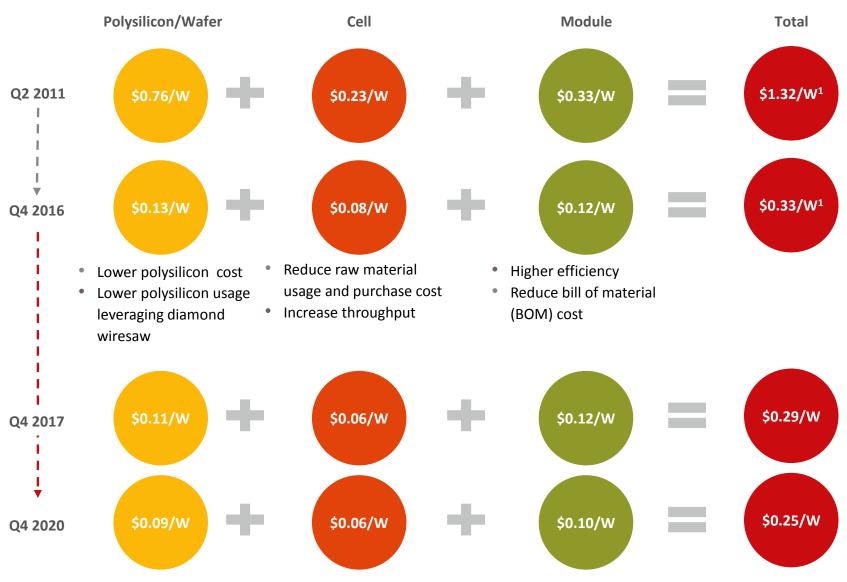


#2 Solar Energy Solutions Company by Revenue in 2015



Source: Company information

Industry Leading Manufacturing Cost Structure



Source: Company information

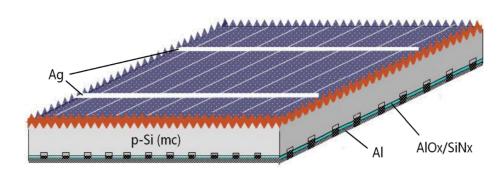
1. Blended manufacturing cost in China, includes depreciation but excludes shipping, warranty and tariff costs



Competitive Pipeline of Homegrown Technologies

ONYX I – Black Silicon

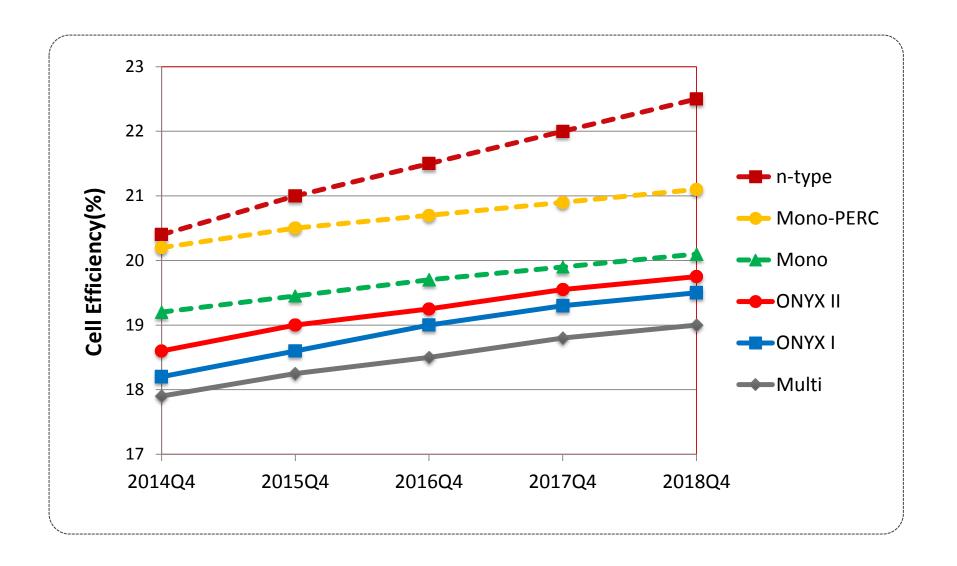
Mono PERC



- 0.4% cell efficiency and 4 watts module power gain over baseline to over 19% by end of 2016
- Over 3 years in-house R&D, self-owned IPs
- Production roll out begun in 2015 Q1
- Ramp up as future multi baseline
- Pleasing aesthetics

- Mono PERC enhances back side passivation and increases cell efficiency to near 21%
- Low Light Induced Degradation (LID), and Potential Induced Degradation (PID) resistant
- → Premium product: 60-cell module power to reach 290 Watt
- Production roll out begun in 2016 Q1, will gradually ramp up within the year

Cell Efficiency Roadmap



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
	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.
9	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.
Experienced endent Directors	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
Experie	Dr. Harry E. Ruda Chair of Technology and member of the Audit, Governance,	■ 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.
- Director of Ace Life Insurance Co. Ltd., China CITIC Bank Corp., Intime Retail (Group) Co. Ltd. And Shenzen Yantian Port (Group) Co. Ltd.

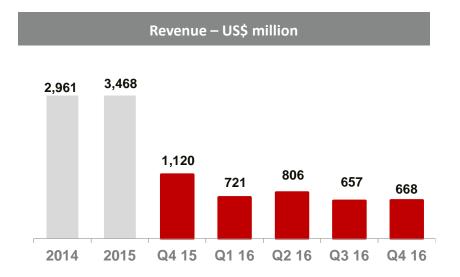
Compensation Committees

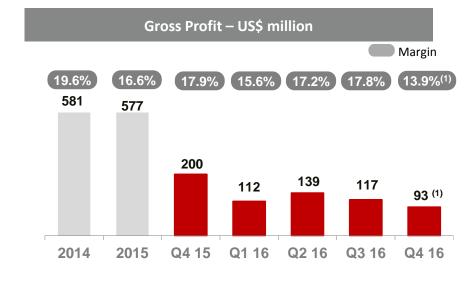
Compensation Committees

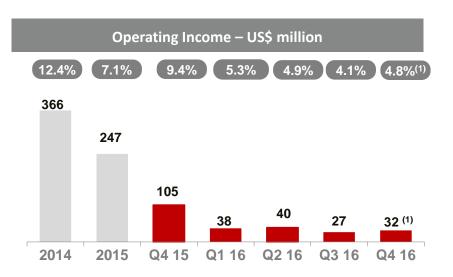
Member of the Audit, Corporate Governance,

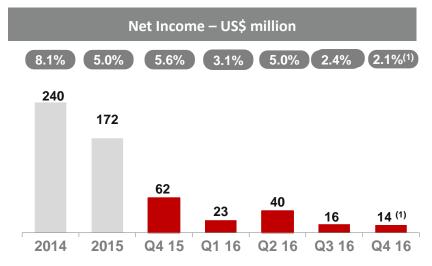
Andrew Wong

Income Statement Summary







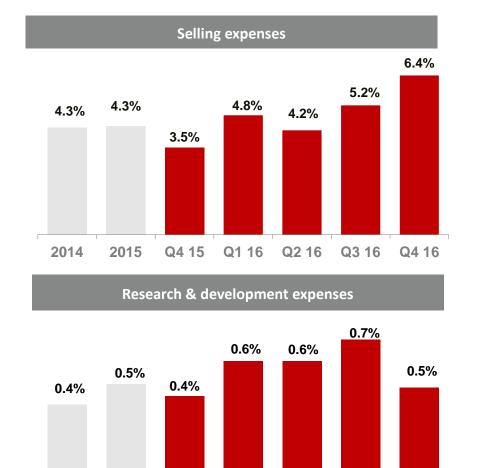


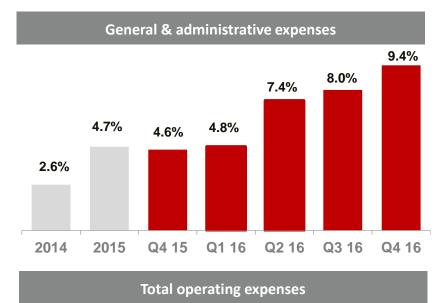
Source: Company filings

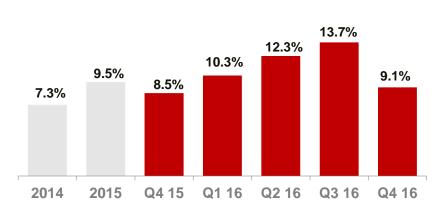
Note: (1) Non-GAAP adjusted numbers, excluding the AD/CVD true-up provision of \$44.1 million



Operating Expenses as % of Net Revenue







Source: Company filings

2015

2014

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

Q1 16

Q2 16

Q4 16

Q3 16

Q4 15



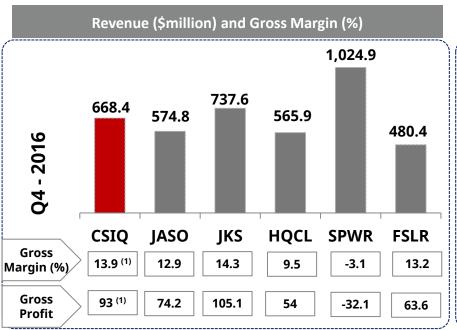
Guidance as of March 21, 2017

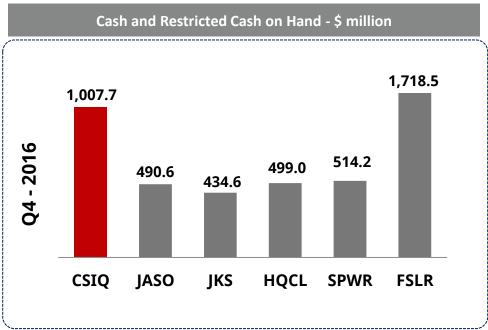
	Q4 2016	Q1 2017
Module shipments	1,612 MW	1,150 MW to 1,200 MW
Revenue	\$668.4 mn	\$570 mm to \$590 mm
Gross margin	7.3% ⁽¹⁾	13% to 15% ⁽¹⁾

FY2016	FY2017	ΥοΥ Δ%
5,232 GW	6.5 GW to 7.0 GW	+24.2%
\$2.85 bn	\$4.0 bn to \$4.2 bn	+40%
NA	NA	NA

¹⁻Includes module business and project business

Competitive Analysis





Q4 2016	CSIQ	JASO	JKS	HQCL	SPWR	FSLR
Receivable Days	65	77	124	69	18	98
Payable Days	114	70	176	85	45	38
Inventory Days	48	67	81	69	33	79
Cash Conversion Cycle	(1)	74	29	53	6	139

Guidance	CSIQ	JASO	JKS	HQCL	SPWR	FSLR
Q1 FY2017 Shipments (GW)	1.15 - 1.2	1.2 - 1.3	1.9 - 2.0	N/A	0.15 - 0.18	N/A
FY2017 Module Shipments (GW)	6.5 – 7.0	6.0 - 6.5	8.5 - 9.0	5.5 - 5.7	1.3 - 1.6	2.4 - 2.6
FY 2017 Revenue (in \$ billion)	4.0 - 4.2	N/A	N/A	N/A	N/A	2.8 - 2.9

Source: Canadian Solar analysis based on the press releases issued as of March 23, 2017. Note: (1) Non-GAAP adjusted numbers, excluding the AD/CVD true-up provision of \$44.1 million



THANK YOU!

March 2017