

## Investor Presentation

Second Quarter 2018 Update

August 2018

CSIQ NASDAQ Listed

#### Safe Harbor Statement

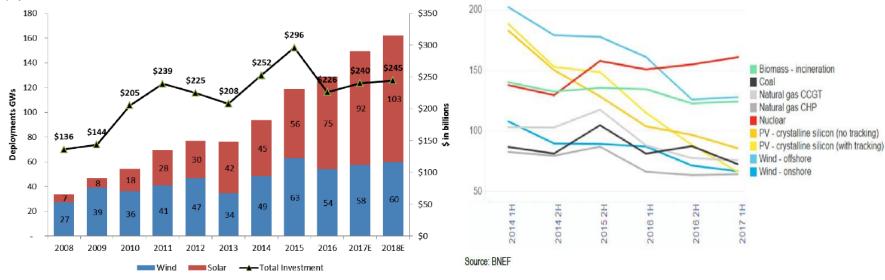
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#### Declining Cost Drives Adoption

#### Investment Forecast for Wind and Solar Capacity Through 2018

LCOE Benchmark Value (\$/MWh)



Deployments in GWs, Investment in \$ Billions

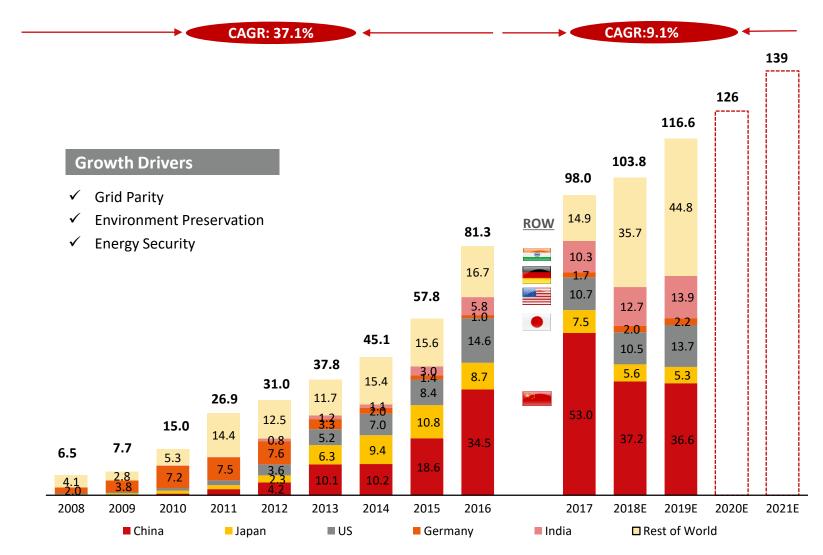
Source: Bloomberg New Energy Finance, J.P. Morgan estimates.

Investment and GW deployment of renewables will continue to grow owing to declining cost/watt, particularly for solar.



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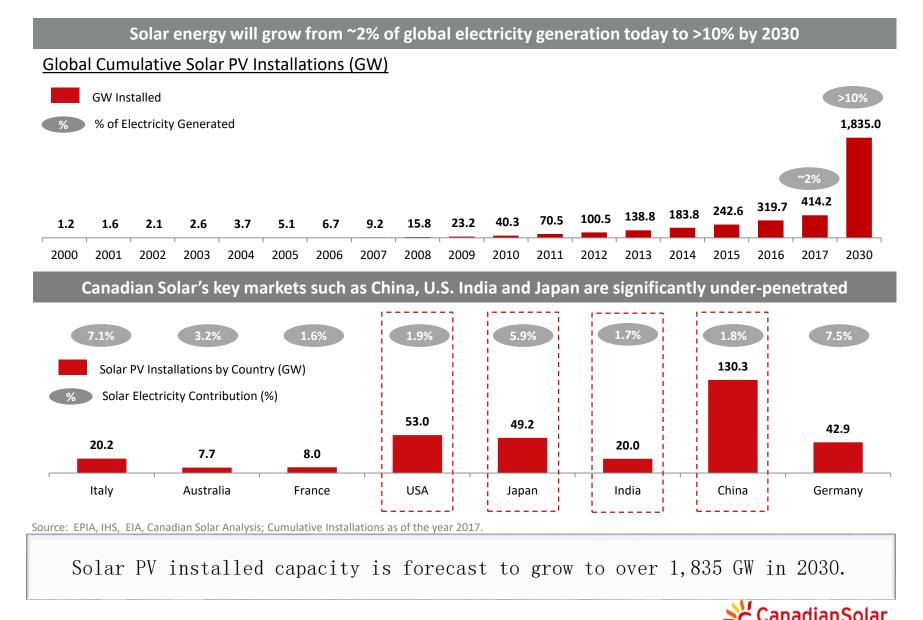
#### Global PV Installation Continue to Grow



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



#### We Are at the Very Early Stages of Solar Adoption

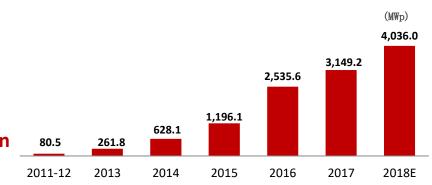


#### Company Overview

- Founded in Ontario, 2001
- Listed on NASDAQ (CSIQ) in 2006
- Over 12,000 employees globally
- Presence in 20 countries / territories
- > 29 GW of solar modules shipped cumulatively
- > 4.3 GWp<sup>(1)</sup> solar power plants built and connected (incl. Recurrent)



#### **Solar Power Plants Built and Connected**



#### Se Canar

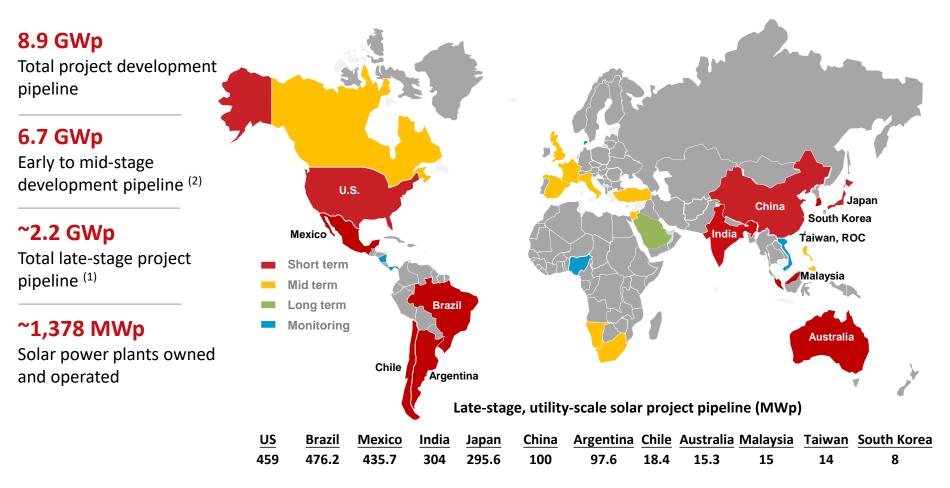
#### Highlights

- Q2 2018 Revenue: \$650.6 million
- 2018 Shipment Guidance: 6.0 GW to 6.2 GW
- ✓ 2018 Revenue Guidance: \$4.0 billion to \$4.2 billion

1. Includes solar power projects built and connected by Recurrent Energy before acquisition by Canadian Solar in 2015

#### Energy Business: Globally Diversified Project Pipeline

**Priority Markets for Utility-scale Project Development** 



Source: Company information as of August 14, 2018

Note: (1) Late-stage project 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.

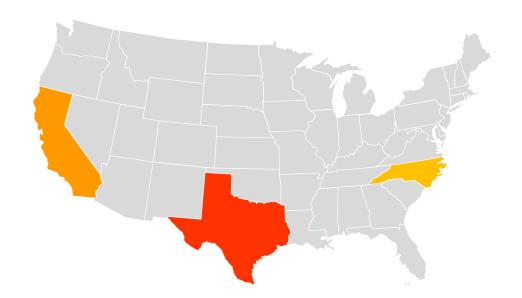
(2) Early to mid-stage of development: includes only those projects that have been approved by our internal Investment Committee or projects that are expected to be brought to the Investment Committee in the near term.



## U.S. Utility-scale Solar Project Pipeline



U.S. Late-stage Project Development Footprint



Market Leader in the U.S.

4.4 GWp Early to mid-stage pipeline

459 MWp Late-stage pipeline<sup>1</sup>

499 MWp Owned and operated<sup>2</sup>





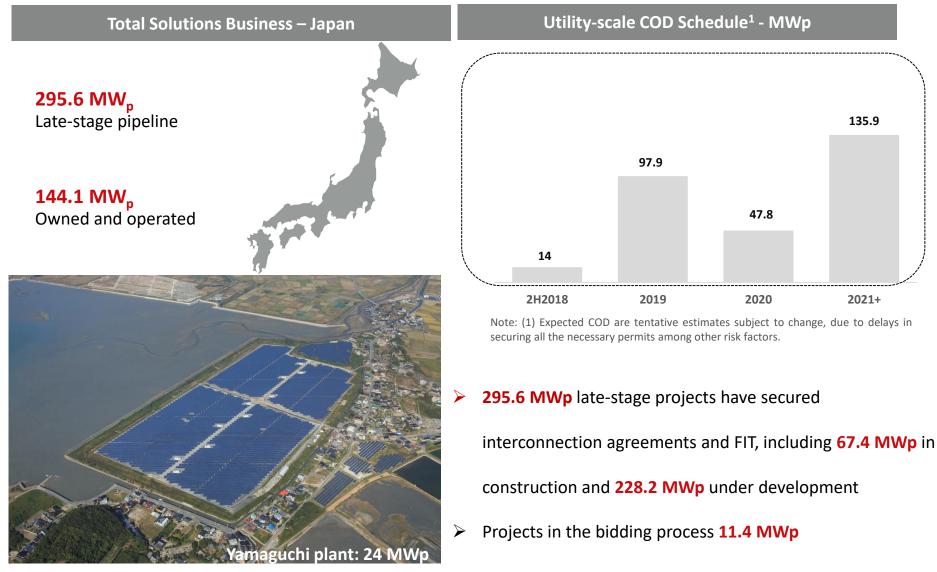
Source: Company information as of August 14, 2018

1. Includes all of Canadian Solar and Recurrent Energy's projects developed and in construction

2. It represent the Gross MWp owned by Canadian Solar

### Japan Utility-scale Solar Project Pipeline





Source: Company information as of August 14, 2018



### Market Leader in Brazil and Mexico



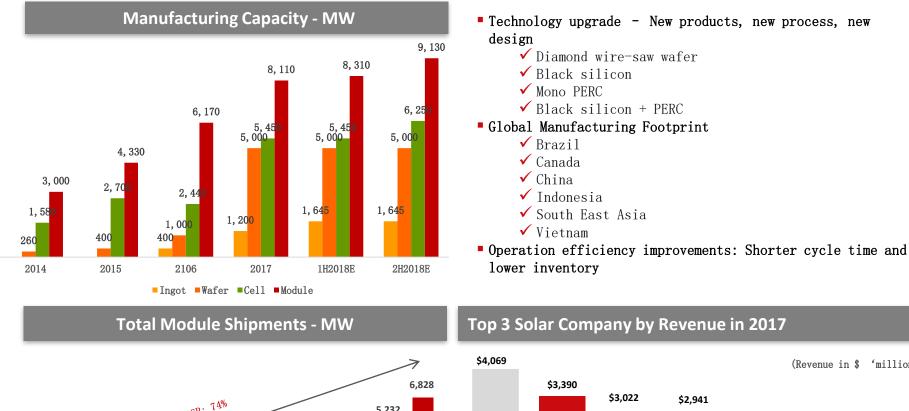


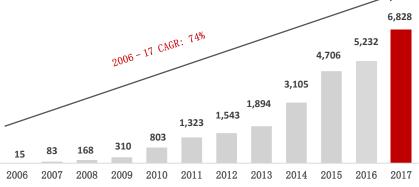
Late-stage projects	Gross MWp	Location	Status	Expected COD
EL Mayo <sup>(1)</sup>	124	Sonora	Development	2020
Tastiota <sup>(1)</sup>	125	Sonora	Development	2020
Horus <sup>(2)</sup>	119	Aguascalientes	Development	2020
Aguascalientes <sup>(2)</sup>	67.7	Aguascalientes	Construction	2018
Total	435.7			

Source: Company information as of August 14, 2018 Note: \* The MWp size represents Canadian Solar's equity interests in the projects



#### Capacity Expansion with New Technology and Cost Reduction





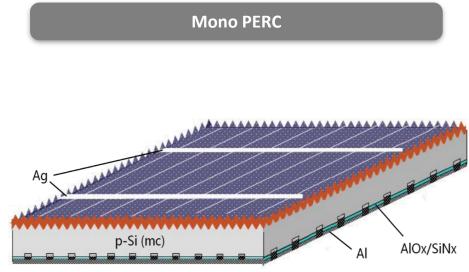


Source: Company information as of August 14, 2018



### Competitive Pipeline of Homegrown Technologies



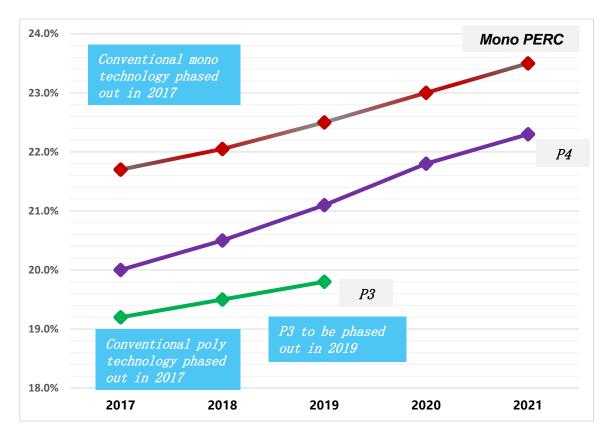


- 1% cell efficiency and 12 watts module power gain on 60cell module design over baseline; cell efficiency reached over 20% in mass production
- Over 4 years in-house R&D, self-owned IPs
- "~1GW in-house multi cell production used this technology at the end of 2017
- 🧩 Pleasing aesthetics

- Mono PERC enhances back side passivation and increased cell efficiency to over 22%
- Low Light Induced Degradation (LID), and Potential Induced Degradation (PID) resistant
- Premium product: 60-cell module power reached over 305 Watt
- 100% mono cell production has been upgraded to mono PERC at the end of 2017



### Cell Efficiency Roadmap



**Cell Efficiency** 

#### Highlights

- P4 will improve the multicrystalline cell efficiency to above 22% in 2021
- Mono PERC cell efficiency can reach above 23% in mass production by 2021
- Non-PERC cell technologies will be phased out by the end of 2019
- Other high efficiency and cost competitive technologies are also in R&D



### Experienced Board & Senior Management

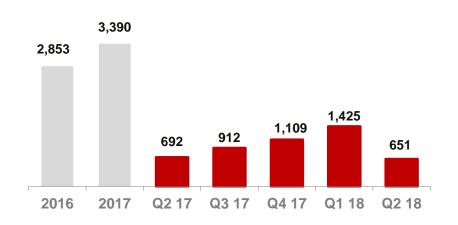
	Name / Title	Work Experience		
2	<b>Dr. Shawn Qu</b> Chairman, President & CEO (Director)	<ul> <li>Founded Canadian Solar in 2001, and has since then, firmly established the company as a global leader of the solar industry</li> <li>Director &amp; VP at Photowatt International S.A.</li> <li>Research scientist at Ontario Hydro (Ontario Power Generation Corp.)</li> </ul>		
	<b>Dr. Huifeng Chang</b> SVP, Chief Financial Officer	<ul> <li>Co-Head of Sales &amp; Trading at CICC US in New York</li> <li>CEO of CSOP Asset Management in Hong Kong</li> <li>Vice President of Citigroup Equity Proprietary Investment in New York</li> </ul>		
R	Yan Zhuang SVP and Chief Commercial Officer	<ul><li>Head of Asia of Hands-on Mobile, Inc.</li><li>Asia Pacific regional director of marketing planning and consumer insight at Motorola Inc.</li></ul>		
	Guangchun Zhang SVP and Chief Operating Officer	<ul> <li>Vice President for R&amp;D and Industrialization of Manufacturing Technology at Suntech Power Holdings</li> <li>Centre for Photovoltaic Engineering at the University of New South Wales and Pacific Solar Pty. Limited.</li> </ul>		
<b>O</b>	Arthur Chien SVP and Chief Strategic Officer	<ul> <li>CEO at Talesun Solar Co., CFO at Canadian Solar Inc.</li> <li>Managing director of Beijing Yinke Investment Consulting Co. Ltd.</li> <li>Chief financial officer of China Grand Enterprises Inc.</li> </ul>		
P.	Jianyi Zhang SVP and Chief Compliance Officer	<ul> <li>Senior advisor to several Chinese law firms</li> <li>Senior assistant general counsel at Walmart Stores, Inc.</li> <li>Managing Partner at Troutman Sanders LLP</li> </ul>		
	<b>Dr. Guoqiang Xing</b> SVP and Chief Technology Officer	<ul> <li>Chief Technology Officer of Hareon Solar</li> <li>R&amp;D Director of JA Solar</li> <li>R&amp;D Director at several semiconductor companies</li> </ul>		
Experienced Independent Directors	<b>Robert McDermott</b> Chairperson of the Corporate Governance , Nominating and Compensation Committees	<ul> <li>Partner with McMillan LLP, a business and commercial law firm</li> <li>Director and senior officer of Boliden Ltd.</li> </ul>		
	<b>Lars-Eric Johansson</b> Chair of the Audit and member of Governance, and Compensation Committees	<ul> <li>CEO of Ivanhoe Nickel &amp; Platinum Ltd.</li> <li>Chairperson of the Audit Committee of Harry Winston Diamond</li> </ul>		
	<b>Dr. Harry E. Ruda</b> Chair of Technology and member of the Audit, Governance, Compensation Committees	<ul> <li>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</li> </ul>		
	<b>Andrew Wong</b> Member of the Audit, Corporate Governance, Compensation Committees	<ul> <li>Senior Advisor to Board of Directors of Henderson Land Development Co.</li> <li>Director of Ace Life Insurance Co. Ltd., China CITIC Bank Corp., Intime Retail (Group) Co. Ltd. And Shenzen Yantian Port (Group) Co. Ltd.</li> </ul>		

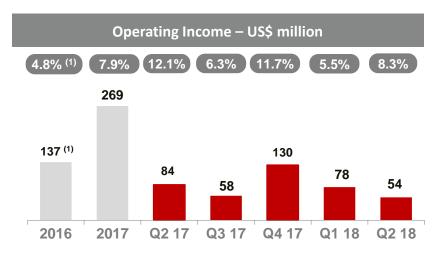


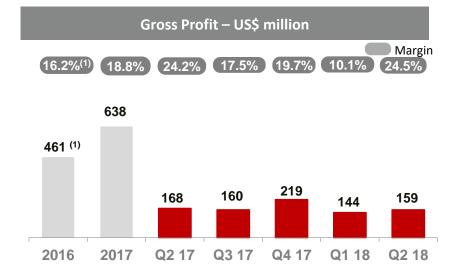
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#### Income Statement

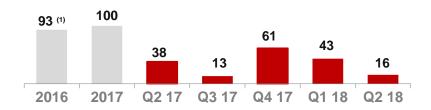
Revenue – US\$ million







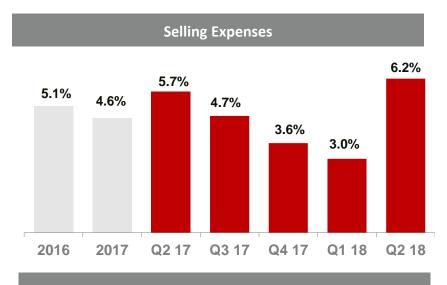




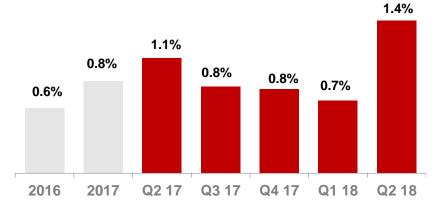
Source: Company filings Note: (1) Non-GAAP adjusted numbers, excluding the AD/CVD true-up provision of \$44.1 million



#### Operating Expenses as % of Net Revenue



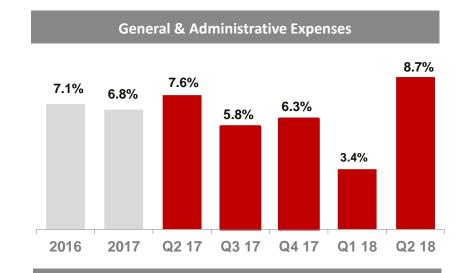
**Research & Development Expenses** 



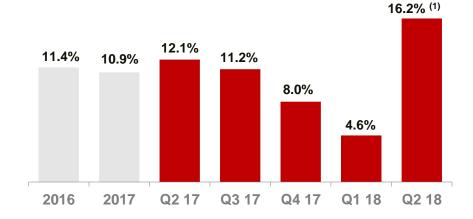
Source: Company filings

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

(1) The % is affected by the deferral of several project sales.



**Total Operating Expenses** 



CanadianSolar

#### Guidance as of August 14, 2018

	Q2 2018	Q3 2018	FY2017	FY2018	ΥοΥ Δ%
Module Shipments	1,700 MW	1.5 GW to 1.6 GW	6.8 GW	6.0 GW to 6.2 GW	-0.9%
Revenue	\$650.6 mn	\$790 mn to \$840 mn	\$3.39 bn	\$4.0 bn to\$4.2 bn	+23.9%
Gross Margin	24.5% <sup>(1)</sup>	20.0% to 23.0% <sup>(1)</sup>	NA	NA	NA

1-Includes module business and energy business





# THANK YOU

August 2018

