# **Investor Presentation**







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# **Company description**

A rapidly growing solar energy total solution provider with one of the largest global project development pipelines

- Founded in Ontario, 2001
- Listed on NASDAQ (CSIQ) in 2006
- Over 7,700 employees globally
- Presence in 19 countries / territories
- One of the world's largest solar module suppliers
- Proven project development track record

#### Module manufacturing business highlights

- 2013 shipments at 1.9 GW, #3 rank
- 2014 shipments at 2.7-2.8 GW, #3 rank
- Industry leading cost structure
- Strong bankable brand with global reach

#### **Global Footprint**



#### Total solar energy solutions business highlights

- Development and construction of utility-scale solar plants
- EPC services
- Rooftop solar system kits

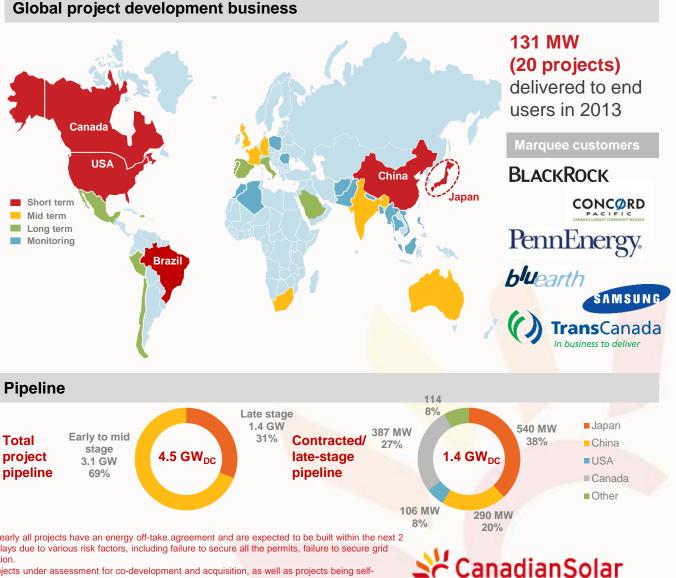


# Well positioned project development business

4.5 GW<sub>DC</sub> total project development pipeline

**1.4 GW<sub>DC</sub>** total contracted / late-stage project pipeline<sup>(1)</sup>

> 3.1 GW<sub>DC</sub> total early-mid stage development pipeline<sup>(2)</sup>



C\$1.4 billion revenue expected for Canadian project pipeline over next 6-

12 months

Source: Company information as of November 14, 2014

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 (1)years. Projects are subject to cancellation or delays due to various risk factors, including failure to secure all the permits, failure to secure grid connection, technical problems during construction.

(2)Early to mid-stage of development: includes projects under assessment for co-development and acquisition, as well as projects being selfdeveloped where the land has been identified or secured, and an energy off-take agreement is in place or there is a reasonable probability that it can be secured

# Leading PV module manufacturer

**3.0 GW<sub>DC</sub>** total module manufacturing capacity including 2.5 GW in China

**3<sup>rd</sup> largest** module manufacturer globally

**22% YoY growth** in module shipments from 2012 – 2013

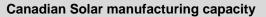
### \$0.50/W module cost

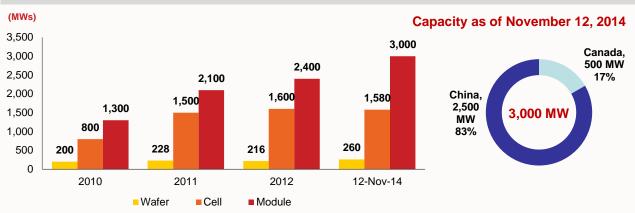
competitive cost structure

### **Bankable brand**

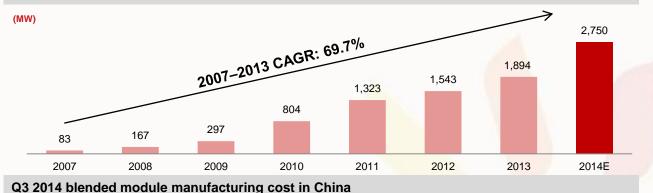
established reputation for high quality products

Source: Company information (1) Includes purchased wafers and cells.





Total shipments in module and total solutions businesses



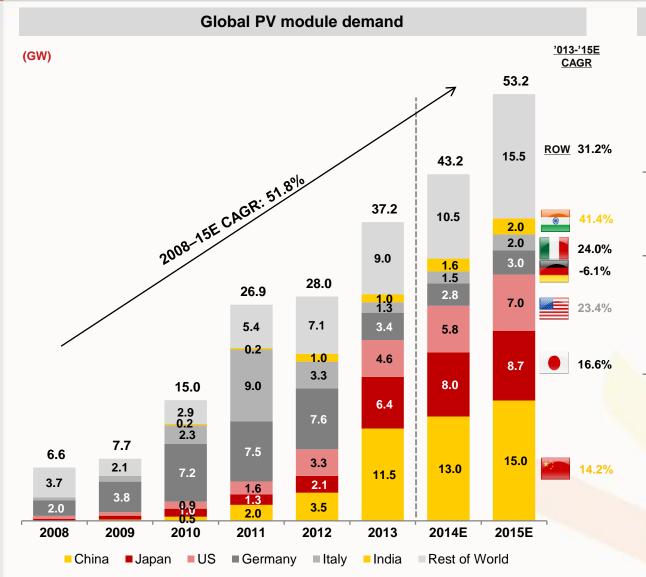


# **Investment highlights**

1	Beneficiary of strong secular growth in the solar sector
2	Rapid growth in project development business
3	Leading vertically integrated PV manufacturer
4	Competitive cost structure
5	Global footprint with diversified and international customer base
6	Bankable brand with high quality products
7	Management team with proven track record



### Levered to strong, positive demand growth globally



# Decline in Europe more than offset by growth in Asia and U.S.

Key themes

Grid parity in certain markets to drive future growth

Long-term growth in Asia driven by energy security, fuel substitution and environmental factors

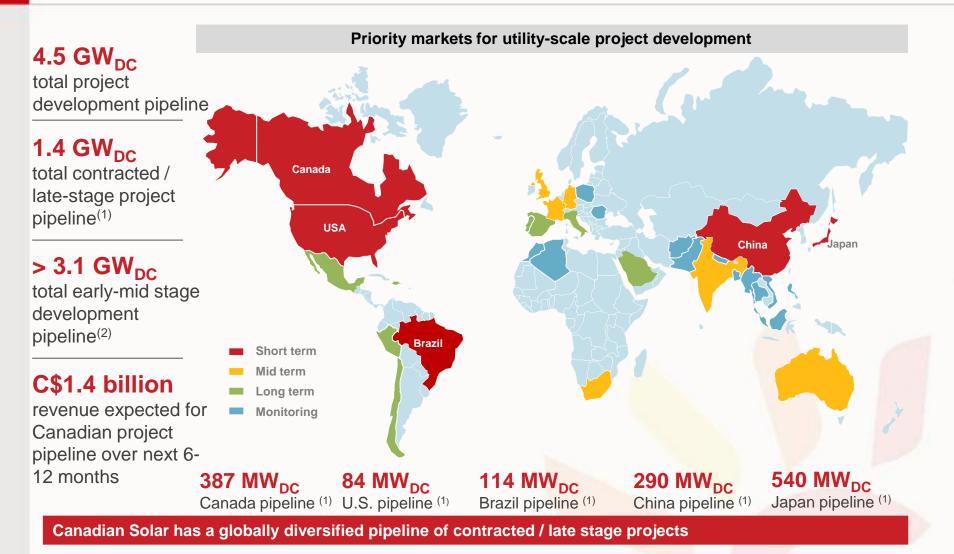
China, Japan and U.S. to account for 63% of estimated 2014 demand – Canadian Solar generated 91% of sales from Asia and Americas in Q3 2013

Source: Global PV module demand assumptions from January 6, 2014 Deutsche Bank research report, Bloomberg New Energy Finance , Solarbuzz.

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(1) China portion of 2014E demand adjusted from 12 GW to 13 GW based on the announcement National Energy Administration made on August 5, 2014.

# 2 Project development business with diversified pipeline

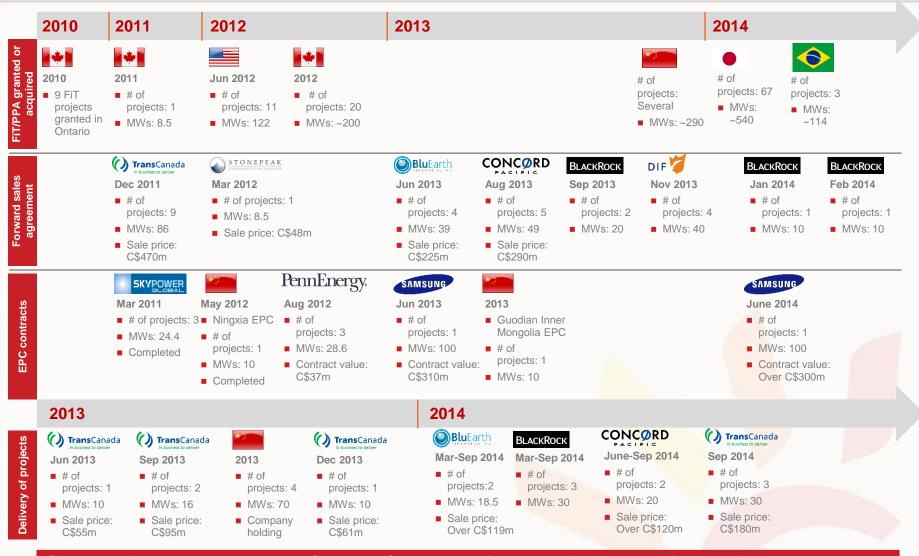


Source: Company information as of November 12, 2014 Note:

- (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 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 projects under assessment for co-development and acquisition, as well as projects being selfdeveloped where the land has been identified or secured, and an energy off-take agreement is in place or there is a reasonable probability that it can be secured

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### 2 Proven track record monetizing utility-scale projects

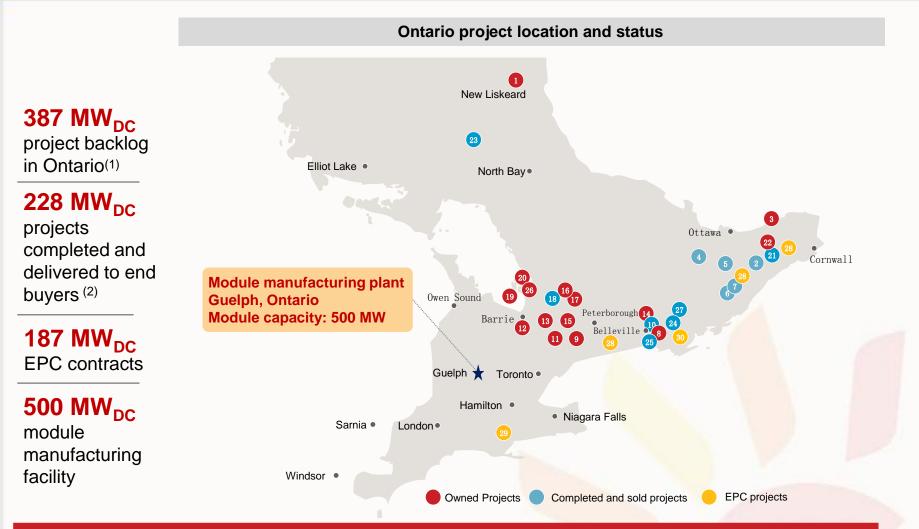


Since entering the market in 2009, Canadian Solar has rapidly grown its total solutions business

Source: Company information Note: All MW shown on this slide are in  $MW_{AC}$ 



# 2 Leading project developer in Canada



Canadian Solar expects to generate approximately C\$1.4 bn in revenue over the next 6-12 months from its owned projects and EPC backlog in Ontario with target gross margin of ~20%

Source: Company information as of November 12, 2014

Note: Construction schedules are subject to change without notice.

(1) Net of 89MW of partially completed construction that was recognized into revenue in prior quarters

(2) Projects completed from 2011 to the end of September 2014, does not include any partially completed projects

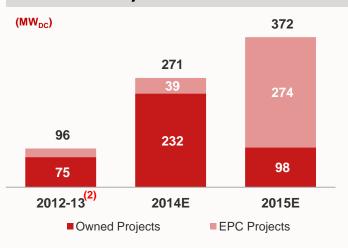


### 2 Leading project developer in Canada (cont'd)

Late stage projects in Canada

Canadian Solar Developed	MW <sub>DC</sub>	Status	Expected COD	End Buyer
1a Liskeard 1	14.0	Commercial Operation	-	TransCanada
1b Liskeard 3 and 4	28.0	SALE CLOSED in 3Q14	-	TransCanada
2 William Rutley	13.9	SALE CLOSED in 3Q14	-	TransCanada
3 Alfred	13.6	Permitting	2015 Q4	TransCanada
4 Mississippi Mills	14.1	SALE CLOSED in 4Q13	-	TransCanada
5 Burritts Rapids	9.8	SALE CLOSED in 3Q13	-	TransCanada
6 Brockville 1	13.2	SALE CLOSED in 2Q13	-	TransCanada
7 Brockville 2	12.5	SALE CLOSED in 3Q13	-	TransCanada
8 Foto Light LP	14.0	In Construction	2014 Q4	TBD
9 Illumination LP	14.0	Engineering	2015 Q3	DIF
10 Little Creek	11.9	SALE CLOSED in 1Q14	-	BluEarth
11 Gold Light LP	14.0	In Construction	2015 Q1	DIF
12 Beam Light LP	14.0	Engineering	2015 Q3	DIF
13 Earth Light LP	14.0	Engineering	2015 Q4	Concord
14 Lunar Light LP	14.0	Engineering	2015 Q2	BluEarth
15 Discovery Light LP	12.6	In Construction	2014 Q4	TBD
16 Sparkle Light LP	14.0	In Construction	2014 Q4	BluEarth
17 GlenArm LP	14.0	In Construction	2014 Q4	DIF
18 Good Light LP	14.0	SALE CLOSED in 3Q14	-	BluEarth
19 Aria LP	14.8	Engineering	2015 Q4	Concord
20 Ray Light LP	14.0	Commercial Operation	-	Concord
21 Mighty Solar LP	14.0	SALE CLOSED in 3Q14	-	Concord
22 City Lights LP	14.0	In Construction	2014 Q4	TBD
23 Highlight (Val Caron)	14.0	SALE CLOSED in 2Q14	-	Concord
24 Taylor Kidd	14.0	SALE CLOSED in 3Q14	-	BlackRock
25 Demorestville	14.0	SALE CLOSED in 3Q14	-	BlackRock
26 Oro-Medonte 4	11.5	In Construction	2014 Q4	BlackRock
27 Westbrook	14.0	SALE CLOSED in 3Q14	-	BlackRock
Total CSIQ Developed (SALE NOT CLOSED)	206.5			
3 <sup>rd</sup> Party Developed (EPC)	MW <sub>DC</sub>	Status	Expected COD	End Buyer
28 Penn Energy	39.0	Commercial Operation	-	Penn Energy
29 Samsung Phase I	133.6	In Construction	2015 Q2	Grand Renewable
30 Samsung Phase II	140.0	In Construction	2015 Q3	Kingston Solar LP
Total EPC Projects	312.6			
MW Recognized into Revenue in Prior Quarters	132.2	Note: Projects #26 and 28-3 accounting, all others use fu		f completion
Total Project Backlog	386.9	accounting, an others use tu	accouraceoconding.	

Project COD timeline (1)



#### **Projects Using Percent of Completion Accounting**

Projects	MW <sub>DC</sub>	Completed %	Completed MW	Remaining MW
Oro-Medonte 4	11.5	55.7%	6.4	4.6
Penn Energy	39	93.8%	36.6	0.9
Samsung Phase I	133.6	65.6%	87.7	42.9
Samsung Phase II	140	1.1%	1.5	138.5
Total	324.1	40.8%	132.2	187.1

Source: Company information as of November 12, 2014

 Note:
 Construction schedules are subject to change without notice.

 (1)
 Revenue recognition may differ from COD timeline

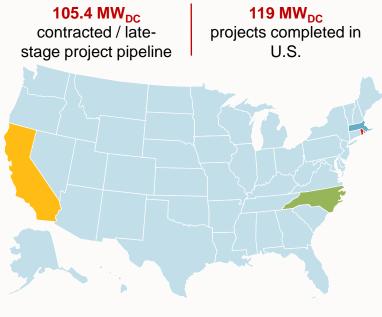
 (2)
 Includes Canadian Solar 1 and William Rutley with COD in 20

Includes Canadian Solar 1 and William Rutley with COD in 2012, as well as Fort Williams and First Nations II where Canadian Solar acted as EPC in 2012



#### **United States utility-scale project pipeline** 2

#### **Total Solutions Business – U.S.**



#### **Active Projects**

California North Carolina Massachusetts Rhode Island

- In Q2 2014, CSIQ completed construction of two solar power plants totaling 12.4 MW, sold 28 MW in development and canceled 5.6 MW
- Key module customers include Belectric, SolarCity, Strata Solar, Petersen Dean and WESCO Renewables

Source: Company information as of November 12, 2014 Note: Permitting and construction schedules are subject to delays and the target commercial operation date (COD) may change without notice

US Late Stage Pipeline	MWDC	State	Status	Expected COD
CSI Project Holdco LLC - P2	6.5	NC	Design and Permitting	2014-Q4
Gasna 13P LLC (Oro Loma)	26.0	CA	Design and Permitting	2015-Q3
SE Solarne4 LLC	0.2	MA	Design and Permitting	2014-Q3
SH Solarne3 LLC	0.5	MA	Design and Permitting	2014-Q3
TA Acacia LLC (West Antelope)	28.4	CA	Construction	2014-Q3
Gasna 31P LLC Morelos (Twisselman)	19.5	CA	Design and Permitting	2015-Q2
CRY1 Project LLC	3.0	CA	Design and Permitting	2014-Q3
Total	84.1			

Projects Completed in 2013	MW DC	State	Status	COD
NC Solar II LLC (Bethea)	2.5	NC	Completed	2013-Q1
CES Sterling LLC	2.4	MA	Completed	2013-Q3
Strata Roof 1 LLC	1.1	NC	Completed	2013-Q1
Fuquay Farm LLC	6.4	NC	Completed	2013-Q1
Berkley East Solar LLC	4	MA	Completed	2013-Q3
Hunt Farm LLC	3.3	MA	Completed	2013-Q3
Haynes Farm LLC	6.5	NC	Completed	2013-Q3
White Cross Farm LLC	6.5	NC	Completed	2013-Q3
Wilson Farm 1 LLC	6.5	NC	Completed	2013-Q3
Lenoir Farm 2 LLC	6.5	NC	Completed	2013-Q2
Lenoir Farm LLC	6	NC	Completed	2013-Q3
Moorings Farm LLC	6.2	NC	Completed	2013-Q3
Marshville Farm LLC	6.2	NC	Completed	2013-Q4
Moore Farm LLC	6.2	NC	Completed	2013-Q4
Yanceyville Farm LLC	6.2	NC	Completed	2013-Q4
Ignite Solar Holdings 1 LLC	4.4	CA	Completed	2013-Q4
Total 2013	80.9			



# 2 Japan utility-scale solar project pipeline

500  $MW_{DC}^{(1)}$ 

early-stage

assessment projects

#### **Total Solutions Business – Japan**





#### Sample project parameters:

- Land lease secured by up-front cash deposit
- Project size 12.5 MWp
- Expected yield 1,130 kWh/kWp
- Connection voltage 110 kV
- Substation on site
- FiT 40 JPY/kWh
- METI and utility permits obtained

Source: Company information as of November 12, 2014

#### Note:

- (1) Expected Q4 2014. Some of these projects may not progress to completion, however the Company broadly expects the Japanese development pipeline to continue growing
- (2) Expected COD are tentative estimates subject to change, due to delays in securing all the necessary permits, technical problems during construction, among other risk factors

Late	Stage	Utility	y-Scale	Pi	peline	

Number of Projects	Total MW <sub>DC</sub>	Average FIT (JPY/kWh)	Expected COD
3	5.6	40.0	2014
29	79.4	36.6	2015
11	214.4	35.5	2016
7	239.1	36.2	2017
	538.5		

Near term Construction Schedule	MW <sub>DC</sub>
1 project has reached COD in September	1.2
1 projects have started construction in Q3 2014	24
2 projects started construction in Q4 2014	4.4
	2.3
	0.9
6 projects are planned to start construction in Q4	1.6
2014	1.6
	1.9
	2.3
Total	40.2

#### Growth in System Kits revenue (rooftop)

2009	\$77m	\$141m
market entry	2012 revenue	2013 revenue

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# China utility-scale solar project pipeline

#### Total Solutions business – China



	Province	2014 -15 Late Stage Project Opportunity (MW <sub>DC</sub> )	Feed In Tariff
1	Jiangsu	30 MW	■ RMB 1.0/kWh ■ RMB 0.2/kWh (Prov.)
2	Shandong	40 MW	<ul><li>RMB 1.0/kWh</li><li>RMB 0.2/kWh (Prov.)</li></ul>
3	Hebei	40 MW	• RMB 0.95
4	Shanxi	50 MW	• RMB 0.95
5	Inner Mongolia	50MW	• RMB 0.90
6	Qinghai	50 MW	• RMB 0.90
7	Xinjiang	30 MW	<ul> <li>RMB 0.90 to 0.95/kWh</li> </ul>
	Total	290 MW <sub>DC</sub>	
- Consider Color is considering the potential conviction			

Canadian Solar is considering the potential acquisition of 100 MW<sub>DC</sub> of project rights in China

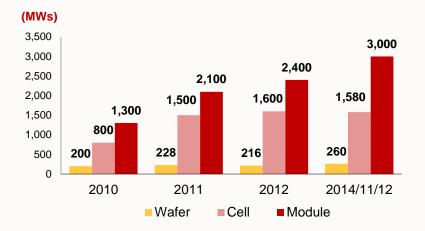
Canadian Solar started construction on projects totaling 100MWDC in the fourth guarter of 2014, and continue to work on permitting to build more projects in China from its existing pipeline.

Source: Company information as of November 12, 2014

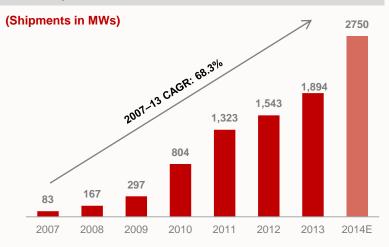


# **3** A leading vertically integrated PV manufacturer

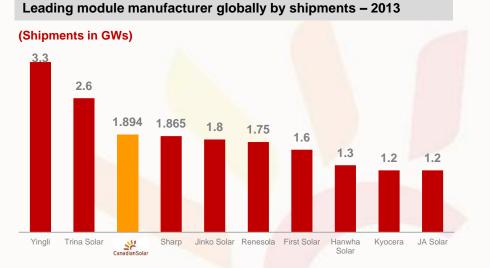
#### Canadian Solar manufacturing capacity growth



#### Total shipments in module and total solutions businesses

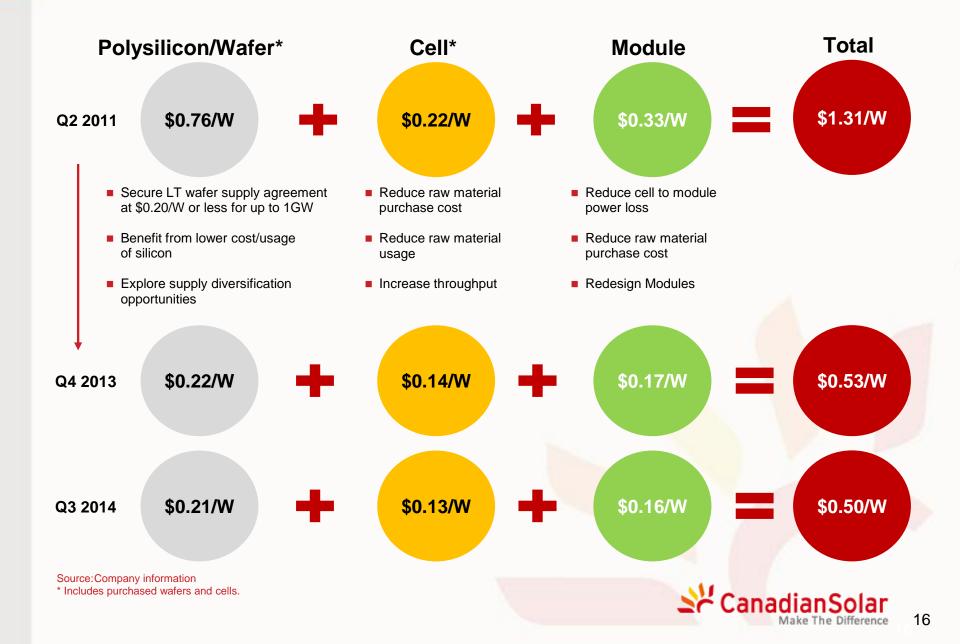


- Module capacity currently at 3,000 MW per year. Plan to add 500 MW in the first half of 2015, with total capacity reaching 3.5 GW
- Cell capacity expansion in Funning, Jiangsu Province, in JV with GCL. Phase I targets net capacity increase of 80MW to a total of 1,580MW. Plan to increase to 400MW in the first half of 2015
- In-house cell capacity targeted at 50% of module shipments
- Wafer capacity to reach 400MW in 2015.

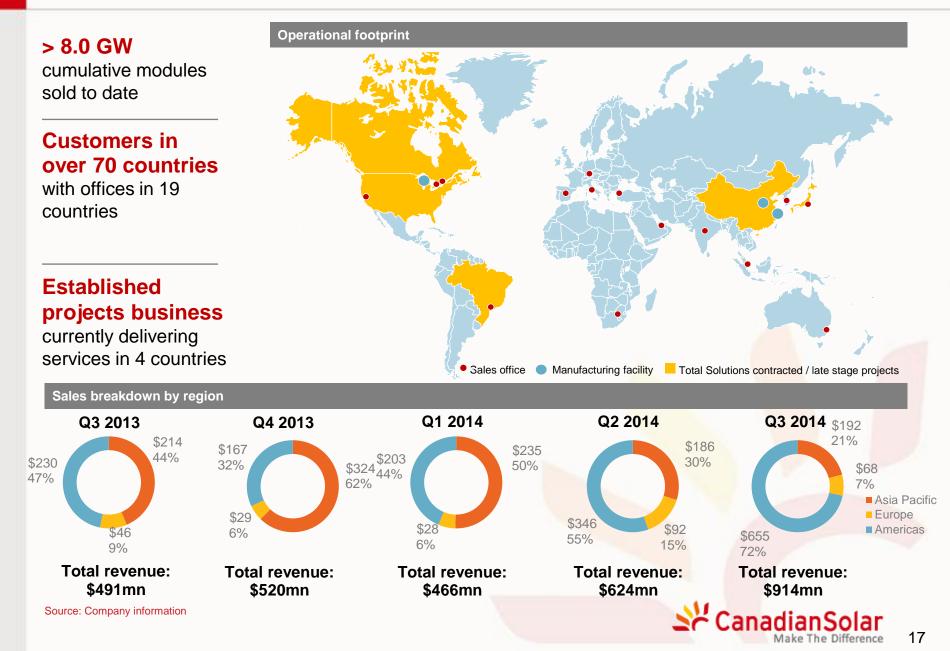


CanadianSolar

# 4 All-in pure manufacturing cost in China



# **5** Global footprint with diversified customer base



# 6 High-quality product portfolio

#### **Product portfolio** International environmental & quality management standards **Commercial and utility-scale** ISO 9001:2008 Quality Management System QC080000:2005 HSPM Hazardous Substance **MaxPower** ELPS **Process Management** CS6P-M CS6X-P CS6P-MM CS6P-P ISO 14001 Environment Management System ISO TS16949:2009 First PV manufacturer to adopt ISO TS16949 for PV quality control OHSAS 18001 Occupational Health and Safety Residential International testing standards IEC 61215 & IEC 61730, UL 1703 & UL 790 & CEC **ELPS** All-black ELPS CE conformity, MCS (EN45011) CS6V-MM CS6V-M CS5A-M CS5A-M CS6A-MM ✓ IEC 61215 REACH Compliance J IEC 61730 J IEC 61701: Salt Mist Corrosion ✔ Ammonia Resistance ✓ PID free J REACH Compliant \* Four busbar modules . 🚇 . c 🕀 us 🤇 🧲 😒 💏 🕮 ISO PV CYCLE Source: Company information CanadianS

### 6 Bankable product with insurance backed warranty

Product workmanship and power output performance....

- 10-year product workmanship warranty
- 25-year power output performance guarantee
  - First year, guarantee of no less than 97% output
  - Second year through 24<sup>th</sup> year, decline of no more than 0.7% per annum
  - By end of year 25 the actual power output will be no less than 80% of the module's labeled power output



....backed by an investment grade insurance policy

- Insurance policy matches Canadian Solar's standard warranty terms
- Coverage starts immediately and lasts for 25 years
- Covers worldwide modules sales from all CSI subsidiaries to most countries
- The policy is non-cancelable and allows third party bankruptcy rights (satisfying investors/ lenders requirements)
- Insurance purchased underwritten by:
  - International Insurance Company of Hannover Limited AM Best Rating: A XV. www.inter-hannover.com
  - RSUI Indemnity Company AM Best Rating: A XII. www.rsui.com



Source: Company information

#### **Experienced Board and Senior Management** 7

	Name / Title	Work Experience
<b>E</b>	<b>Dr. Shawn Qu</b> Chairman, President & CEO (Director)	<ul> <li>Director &amp; VP at Photowatt International S.A.</li> <li>Research scientist at Ontario Power Generation Corp.</li> </ul>
	<b>Michael Potter</b> SVP and Chief Financial Officer	<ul> <li>Corporate Vice President and CFO of Lattice Semiconductor Corp.</li> <li>Senior Vice President and CFO of NeoPhotonics Corp.</li> </ul>
Ş	Yan Zhuang SVP and General Manager of Module Business	<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>
	<b>Charles Bai</b> SVP and General Manager of Project Business	<ul> <li>Chief Strategy Officer / Chief Financial Officer at ReneSola Ltd</li> <li>Chief Financial Officer at Fenet Software</li> </ul>
	Guangchun Zhang 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>
dent	Robert McDermott 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>
ndepen	Lärs-Eric Johansson Chairperson of the Audit Committee	<ul> <li>CEO of Ivanhoe Nickel &amp; Platinum Ltd.</li> <li>Chairperson of the Audit Committee of Harry Winston Diamond</li> </ul>
Experienced Independent Directors	<b>Dr. Harry E. Ruda</b> Member of the Audit Committee and Compensation Committee	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	<ul> <li>Senior Advisor to Board of Directors of Henderson Land Development Co. Ltd</li> <li>Director of Ace Life Insurance Co. Ltd., China CITIC Bank Corp, Intime Retail (Group) Co. Ltd. and Shenzhen Yantian Port (Group) Co. Ltd.</li> </ul>
Source: C	Company information	CanadianSolar

Make The Difference

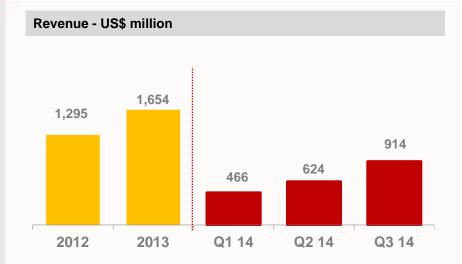
### **Key levers of our strategy**

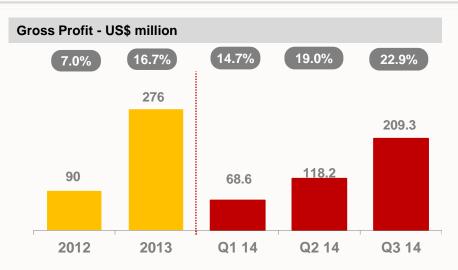
Differentiate Business Model	<ul> <li>Leverage CSI's existing expertise to expand and monetize utility scale project opportunity (e.g. Canada, U.S., Japan, China)</li> <li>Expand residential system kits</li> </ul>
Maintain Low Manufacturing Cost	<ul> <li>Continue to reduce manufacturing costs to remain competitive</li> </ul>
Leverage Manufacturing Scale	<ul> <li>Expand capacity selectively in a cost-efficient manner and increase market share</li> </ul>
Introduce New Technologies	<ul> <li>Focus on research and development to achieve solar cell efficiency improvements and introduction of new technologies</li> </ul>

Canadian Solar aims to maintain profitability and to be the global leader in the development, manufacture and sale of solar module products and a total solutions provider in photovoltaic power generation



### **Income statement summary**





### Operating Income (Loss) - US\$ million -11.0% 7.9% 5.7% 10.8% 130.8 26.6 67.7

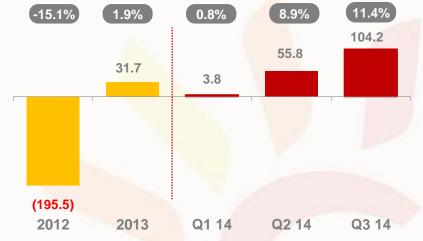
Margin



17.1%

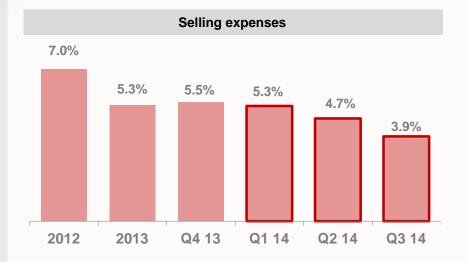
156.1

Net Income (Loss) - US\$ million



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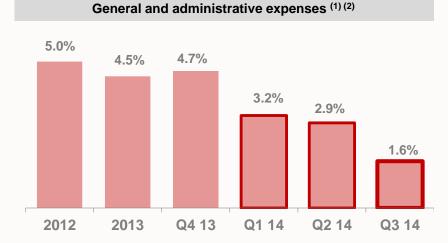
### **Operating expenses as % of revenue**



**Research and development expenses** 

0.5%

Q1 14



#### Total operating expenses (1) (2)



#### Source: Company filings

2012

1.0%

0.7%

2013

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

Q4 13

0.6%

(1) Fiscal year 2012 excludes \$64.2 million non-cash provision for bad debt and arbitration award. Including these provisions, G&A and operating expenses for fiscal 2012 represented 10.0% and 18.0% respectively.

0.5%

Q2 14

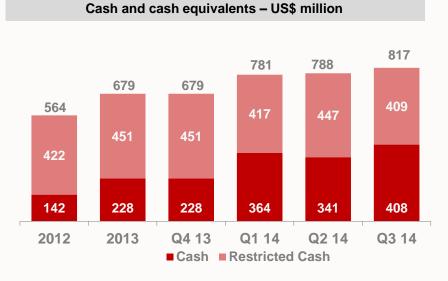
0.3%

Q3 14

(2) Excludes arbitration award reversal totaling \$30 million in Q1 2013.

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### Selected balance sheet and cash flow items



Total debt – US\$ million





Depreciation and amortization – US\$ million





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(1) Working capital calculated as total current assets less total current liabilities

(2) Including US\$150 million in aggregate principal amount of 4.25% convertible senior notes due 2019

### Guidance

	Q3 2014	Q4 2014	FY2013	FY2014	<b>YoY</b> ∆%
Module shipments	770MW	810MW- 860MW	1.9GW	2.7GW – 2.8GW	+44.7%
Revenue	\$914.4 Million	\$925 Million to \$975 Million	1.65 Billion	\$2.9 Billion to \$3.0 Billion	+84.7%
Gross margin	22.9%	17% – 19% <sup>(1)</sup>	16.7%	NA	NA

Source: Earnings release issued on November 12, 2014

(1) Includes module business and project business





