Investor Presentation

December 16, 2013





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Company Description

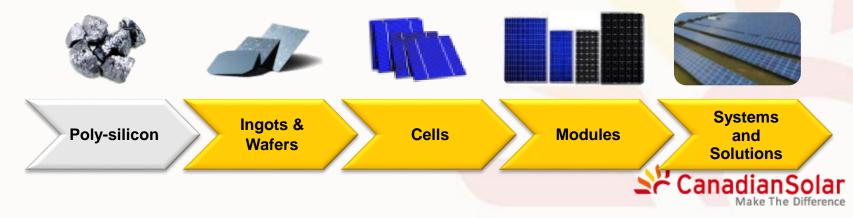
अ A Canadian company with global reach

- Founded in Ontario, 2001
- Listed on NASDAQ (CSIQ) in 2006
- Over 7,000 employees globally
- Present in 20 countries/territories

अ One of the world's largest solar module supp!iers

- Module shipments of 1.54 GW in 2012
- 2.4GW annual module manufacturing capacity in Q4-2013
- Expected module shipments of 1.75-1.77GW in 2013

Vertically integrated manufacturer of ingots, wafers, cells, modules and solar system and solutions



Industry Rank (Shipments)

	2009	2010	2011	2012	9M-2013	GW*
1 st	First Solar	Suntech	Suntech	Yingli	Yingli	2.29
2 nd	Suntech	First Solar	First Solar	Suntech	Trina Solar	1.82
3 rd	Sharp	Sharp	Yingli	Trina Solar	Sharp	1.41
4 th	Yingli	Yingli	Trina Solar	Canadian Solar	Canadian Solar	1.27
5 th	SunPower	Trina Solar	Canadian Solar	First Solar	First Solar	1.24
6 th	Kyocera	Canadian Solar	Sharp	Sharp	Jinko Solar	1.23
7 th	Trina Solar	Hanwha Solar	SunPower	JA Solar	ReneSola	1.22
8 th	Canadian Solar	Kyocera	Jinko Solar	Jinko Solar	Hanwha Solar	0.91
9 th	Hanwha Solar	SunPower	Hanwha Solar	SunPower	JA Solar	0.81
10 th	Solar World	Solar World	Kyocera	Hanwha Solar	SunPower	0.70

Source: Company issued press releases, analyst reports, Canadian Solar analysis

• Estimates based on shipments recognized into revenue indicate Canadian Solar is tied and among top three suppliers in 2012



Business Focus

Project Development & Total Solutions

- **Residential system kits**
- Commercial rooftops
- Development and construction of utility scale power plants

EPC Services

- Leverage competitive supply chain
- **Build on core expertise**
- Capture additional margin

Module Sales

- Virtually integrated flexible business model
- Leading cost position
- Bankable brand
- Global footprint

Total Solutions including System Kits, EPC Services, Project Development are targeted to be ~31% revenue in 2013, up from 13% in 2012



Investment Highlights

Differentiated Business Model	Sh Sh Sh Sh Sh Sh Sh Sh Sh Sh Sh Sh Sh S	 Canadian Solar's solar power project pipeline in Canada (499MW), U.S. (198MW), Japan (278MW) and China (40MW) currently is over 1.0 GW (dc) Currently assessing 200MW of additional project opportunities in Japan and multiple GW globally. Soft project pipeline in China and other markets exceeds 3.5 GW (dc) Landmark agreement to build 130MWdc solar power plant for phase 1 of Samsung's renewable energy initiative in Ontario, Canada. Phases 2 and 3 may add an additional 260MWdc, when and if approved.
Industry Leading Cost Structure	5	 All-in module manufacturing cost at \$0.55 per watt in the third quarter of 2013 Virtually-integrated ~2GW wafer-to-module platform drives manufacturing efficiencies while minimizing capital expenditure Strategic wafer partnership guarantees reliable supply at industry leading cost structure
Global Footprint and Bankable Brand	94 94 94 94 94 94	Vover 5.0 GW of modules installed in more than 70 countries
Large and Growing Market	34 34	 Market is expected to grow as solar energy adoption accelerates in 2014 and beyond Growth drivers include: retail grid-parity, concern for the environment, energy security, move away from nuclear, demand for distributed energy in emerging markets, among other factors.
		Make The Difference 6

Business Differentiator: Our Project Strategy

Where we see opportunity

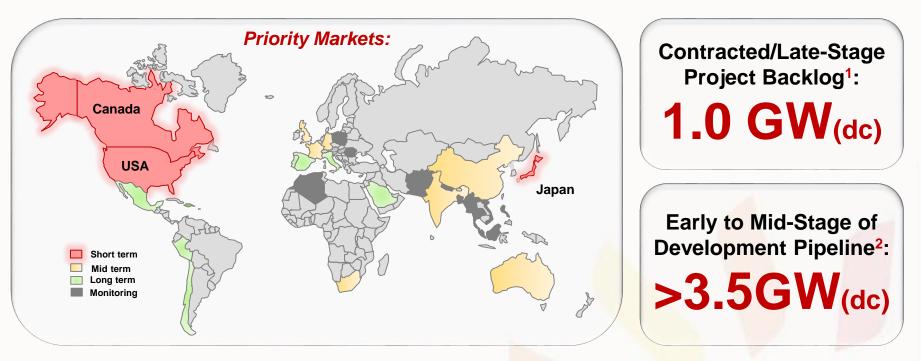
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- Short term focus on markets where we believe it is more likely to sell projects upfront, before starting construction 2. Professionalize the development activity through partnerships with developers that do not have the financial capability to complete their projects
 - Mid- and long-term focus on markets where grid parity at utility scale most likely to happen



Key success factors

- Canadian Solar has a strong team with experience in project development, EPC, and M&A
- Our team has the ability to conduct risk assessment, and understand impact on cash flows
- 3. **Speed**, we have a process in place for quick decision making
- 4. We have proven access to **finance** and expect to develop risk insurance options for difficult regions
- We have developed partnerships with developers and end buyers for quick access to equity 5.
- 1. Late-stage project and EPC contract backlog as of the end of Q3 2013: nearly all projects have an energy off-take agreement and are expected to be built within the next 2 years; Over 200 MW(dc) are currently under construction.
- 2. Early to mid-stage of development: includes projects under assessment for co-development and acquisition, as well as projects being self-developed where the land has been identified or secured, and an energy off-take agreement is in place or there is a reasonable probability that an energy off-take agreement is in place or there is a reasonable probability that an energy off-take agreement is an energy off-take agreement is a secured



Business Differentiators: Canadian Pro	piect Ba	ackl	oa	
Ontario	Owned Projects	Size	Status	End Buyer
	1 Liskeard 1, 3 and 4	30 MW AC	In Construction (COD 2014)	TransCanada
New Liskeard Conduidition	² William Rutley	10 MW AC	Commercial Operation	TransCanada
	³ Alfred	10 MW AC	COD 2015	TransCanada
Ontario Solar PV	4 Mississippi Mills	10 MW AC	Commercial Operation	TransCanada
23 Projects	⁵ Burritts Rapids	7 MW AC	SALE CLOSED in 3Q13	TransCanada
	6 Brockville 1	10 MW AC	SALE CLOSED in 2Q13	TransCanada
Elliot Lake • North Bay •	7 Brockville 2	9 MW AC	SALE CLOSED in 3Q13	TransCanada
Will Bay	8 Foto Light LP	10 MW AC	COD 2014	TBD
Demandine D	9 Illumination LP	10 MW AC	COD 2015	DIF
	10 Little Creek	8.5 MW AC	In Construction (COD 2014)	BluEarth
Ottawa 3	11 Gold Light LP	10 MW AC	COD 2014	DIF
22 28	12 Beam Light LP	10 MW AC	COD 2015	DIF
4 5 2 21 Cornwall	¹³ Earth Light LP	10 MW AC	COD 2015	Concord
Cornwall	14 Lunar Light LP	10 MW AC	COD 2015	BluEarth
26 _ 16 _ 67	¹⁵ Discovery Light LP	10 MW AC	COD 2014	TBD
15 18 17	¹⁶ Sparkle Light LP	10 MW AC	COD 2014	BluEarth
Owen Sound Barrie ¹ 13 15 14 27 Beterborough Belloville and 24	17 Glen Arm	10 MW AC	COD 2014	DIF
12 Peterborough Belleville	¹⁸ Good Light LP	10 MW AC	In Construction (COD 2014)	BluEarth
28 0 23 2.	19 Aria LP	9 MW AC	COD 2015	Concord
- marker	20 Ray Light LP	10 MW AC	In Construction (COD 2014)	Concord
Toronto	²¹ Mighty Solar LP	10 MW AC	In Construction (COD 2014)	Concord
	22 City Lights LP	10 MW AC	COD 2014	TBD
Hamilton	23 Highlight (Val Caron)	10 MW AC	In Construction (COD 2014)	Concord
Sarnia London Niagara Falls	26 Oro-Medonte 4	10 MW AC	COD 2014	TBD
Condon - 29	27 Westbrook		In Construction (COD 2014)	TBD
I when the	EPC Projects	<u>Size</u>	Status In Construction (COD 2014)	End Buyer
Windsor	24 Taylor Kidd	10 MW AC	Sale Closed 3013	BlackRock
	25 Demorestville		In Construction (COD 2014) Sale Closed 3Q13	BlackRock
V	28 Penn Energy		In Construction (COD 2014)	Penn
Li contra di	29 Grand Renewable Phase I	100 MW AC	In Construction (COD 2015)	GRSP

Canadian Solar Owned Projects and EPC backlog in Ontario is expected to generate over C\$1.7 Billion in revenue over the next 18-24 months.

CanadianSolar Make The Difference

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Bus	iness Differentiators: Canadian Pre	esence
	Project Development Hub	
	Track record as EPC/Developer on over 58MW AC of utility-scale projects Contracted EPC on 149MW AC utility-scale projects in Ontario	Module Capacity: 330 MW
*	Developer and EPC on 24 utility-scale projects scheduled to be built through 2015	Ontario Pipeline (DC):

Only Tier 1 Supplier to Establish (Fully Automated) Module Plant in Ontario



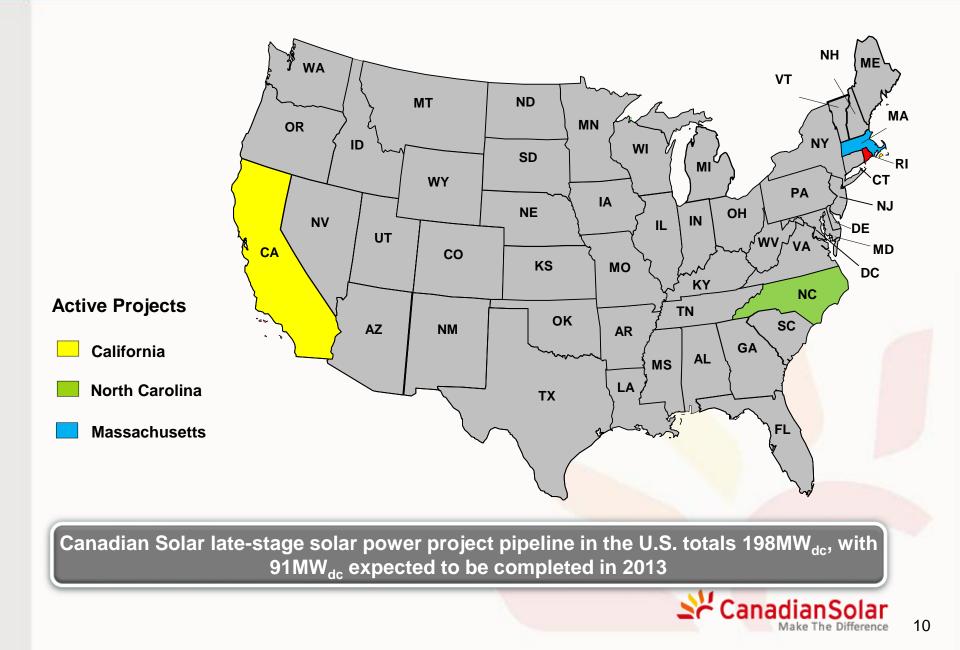






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Business Differentiators: U.S. Late Stage Pipeline



Business Differentiators: Japan Utility-Scale Opportunity



Late Stage Development Pipeline:

278 MW

Early-stage Preliminary Assessment Opportunities: 200 MW

Sample Project



Land to be leased 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



Business Differentiators: Japanese Residential Market



System Kits

2012 Revenue:

\$120m

Market Entry:

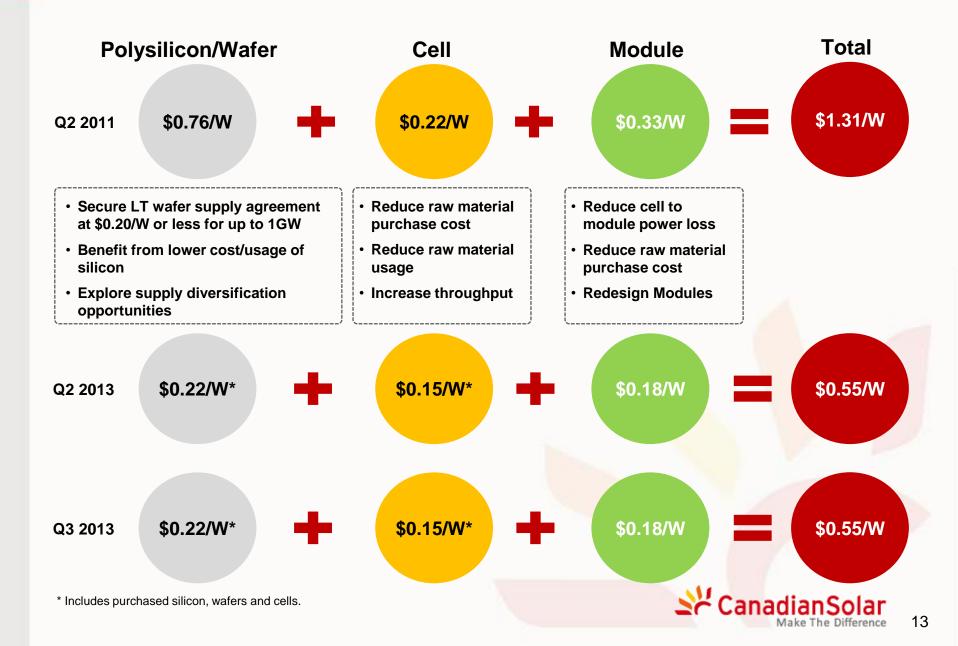
2009







All-in Pure Manufacturing Cost in China



Capacity Expansion Plan

Desired Capacity = Differentiated Products with Industry Leading Cost Structure

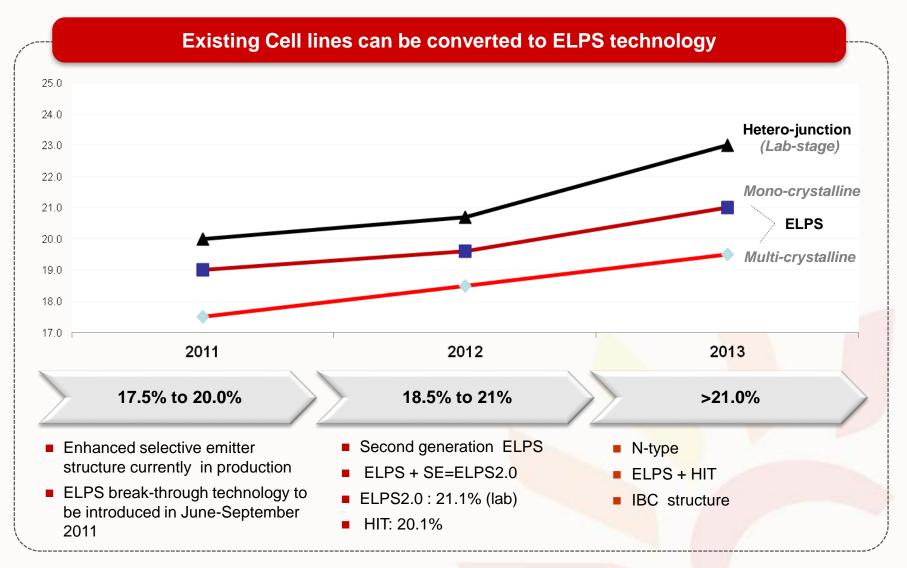


- Ingot/wafer capacity of ~2,000 MW* for 2014 and beyond include: (a) ~300MW internal (b) 600MW GCL joint-venture and (c) 1GW LT supply agreement (d) other external suppliers
- Cell capacity expansion include 600MW through external supply partners
- In-house cell capacity targeted at 75% of module shipments

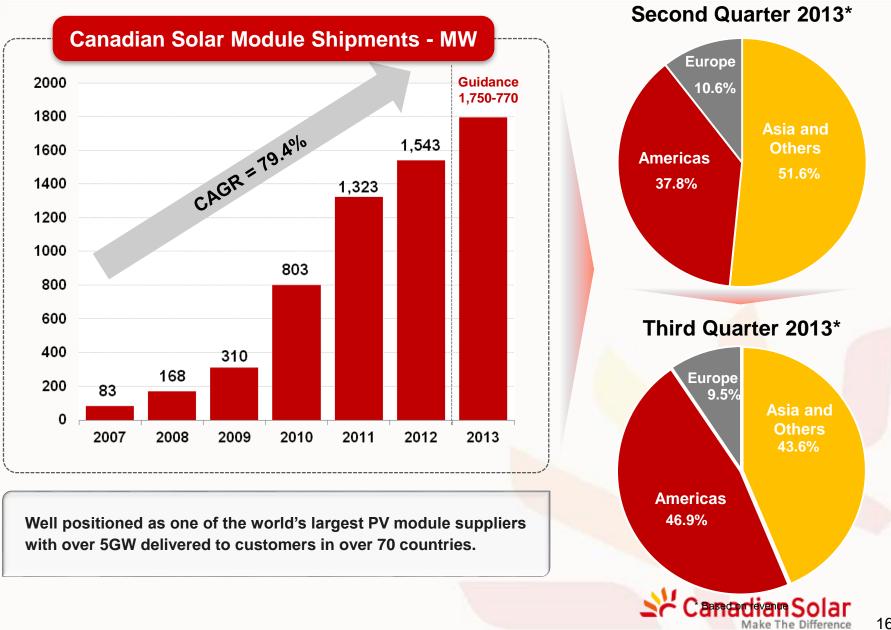
**As of the date of this presentation all capacity expansion targets are on hold.



Cell Efficiency Roadmap



Global Footprint and Growing Market Share



World Class Product Portfolio



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Quality and Performance Certification

International Environmental & Quality Management Standards

- ✓ ISO 9001:2008 Quality Management System
- → QC080000:2005 HSPM Hazardous Substance Process Management
- अ ISO 14001 Environment Management System
- SO TS16949:2009 First PV manufacturer to adopt ISO TS16949 for PV quality control
- OHSAS 18001 Occupational Health and Safety

International Testing Standards

✓ IEC 61215 & IEC 61730, UL 1703 & UL 790 & CEC

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- ✓ CE conformity, MCS (EN45011)
- REACH Compliance

 √ IEC 61215
 √ IEC 61730
 √ IEC 61701: Salt Mist Corrosion
 √ Ammonia Resistance
 √ PID free
 √ REACH Compliant



PV CYCLE

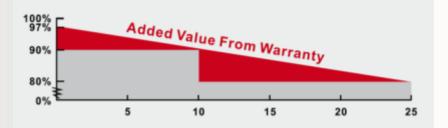
ISO

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Industry Leading Warranty

Product Workmanship and Power Output Performance Warranty...

- 10-year product workmanship warranty
- 25-year linear power output performance guarantee
 - Guarantee 97% of the labeled power output in the first year
 - Decline of no more than 0,7% annually
 - By 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. <u>www.rsui.com</u>



Large and Growing Market Opportunity

			SIO	Jar	VI	MOU	ule	Dei	nan	id -	GW				
	Lá	ast 10	0 Yea	rs: 5	4% C	CAGR	2				Fore	cast	: 16.7	7% C .	4 <i>GF</i>
															65.
											 			55.0	60
													50.0		
												45.0		50.0	
											40.0		45.0		
												40.0	-		
									27.7	30.0	35.0				
								19.4							
						6.1	7.6								
	0.6	1.1	1.5	1.8	2.8										
0.4	_					1	1	1	1	1			1	1	

Key Drivers

Past:

- ✓ Government incentives
- ✓ Lower system prices

Future:

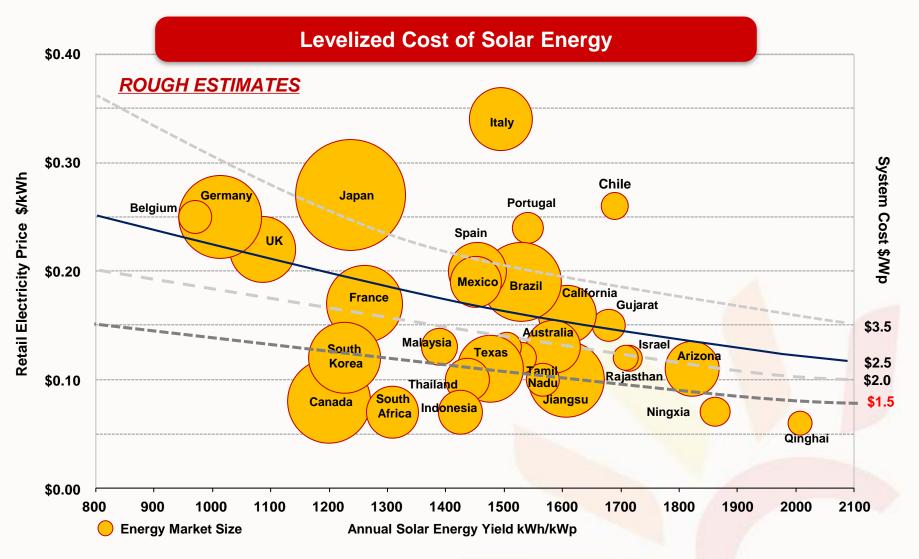
- ✓ Grid parity
- ✓ Rural electrification
- ✓ Energy security
- ✓ Fuel substitution
- ✓ Energy diversity
- Environment preservation
- ✓ Distributed energy

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✓ Move away from nuclear

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Retail Grid-parity in Selected Markets



Source: PHOTON Consulting analysis based on data from EIA and Eurostat

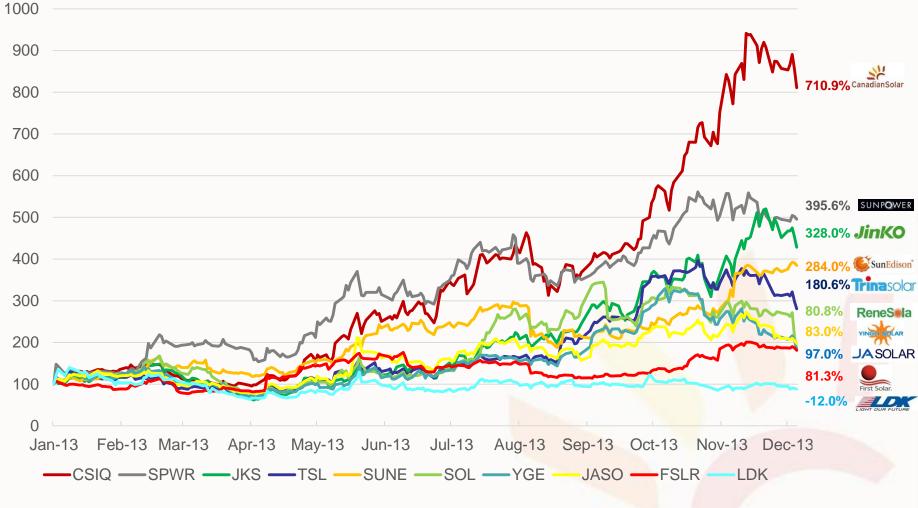


Management Team and Board

	International Background	I + Extensive Industry Experience
	Name / Title	Working Experience
	Dr. Shawn Qu (Xiaohua) Chairman, President & CEO (Director)	 ✓ Director & VP, Photowatt International S.A. ✓ Research scientist, Ontario Power Generation Corp.
	Michael G. Potter SVP and Chief Financial Officer	 Corporate Vice President and CFO of Lattice Semiconductor Corp. Senior Vice President and CFO of NeoPhotonics Corp.
	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, Motorola Inc.
	Guangchun Zhang Chief Operating Officer	 Vice President for R&D and Industrialization of Manufacturing Technology, Suntech Power Holdings Centre for Photovoltaic Engineering at the University of New South Wales and Pacific Solar Pty. Limited.
Experience	Robert McDermott Chairperson of the Corporate Governance , Nominating and Compensation Committees	Lärs-Eric Johansson Chairperson of the Audit Committee Compensation Committee
Independ Director	ent S Partner with McMillan LLP, a business and commercial law firm	 CEO of Ivanhoe Nickel & Platinum Ltd. Chairperson of the audit committee of Harry Winston Diamond Corp. Director of the Centre for Advanced Nanotechnology, the Stanley Meek Chair in Nanotechnology and Prof. of Applied Science and Engineering at the University of Toronto, Canada

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2013 Share Price Performance Relative to Peers



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Source: Nasdaq Corporate Solutions as of December 6 2013

The Key Levers of our Strategy

Differentiate Business Model	 Leverage CSI's existing expertise to expand and monetize utility scale project opportunity (e.g. Canada, U.S., Japan, China) Expand residential system kits
Maintain Lowest Manufacturing Cost	Reduce manufacturing costs to remain competitive
Leverage Manufacturing Scale	Increase market share to remain among the Top-4 manufacturers and on the short list of key accounts
Introduce New Technologies	ELPS, Smart Module, QUADTECH

Goal is to be profitable and among the top-4 global module manufacturers, with over 10% share of the global PV module market



Financial Highlights

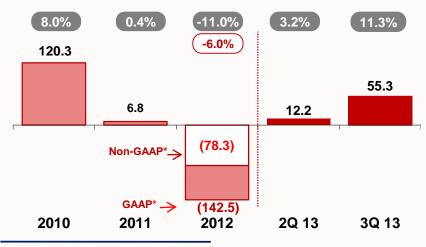


Key Performance Indicators

Revenue - US\$ million

1,496 1,295 380 491 2010 2011 2012 2013 3Q13

Operating Income (Loss) - US\$ million



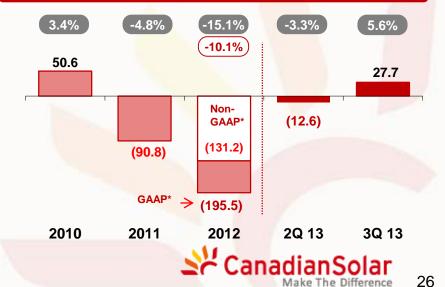
Margin

• Non-GAAP measure excludes non-cash charges for A/R and Arbitration Award.

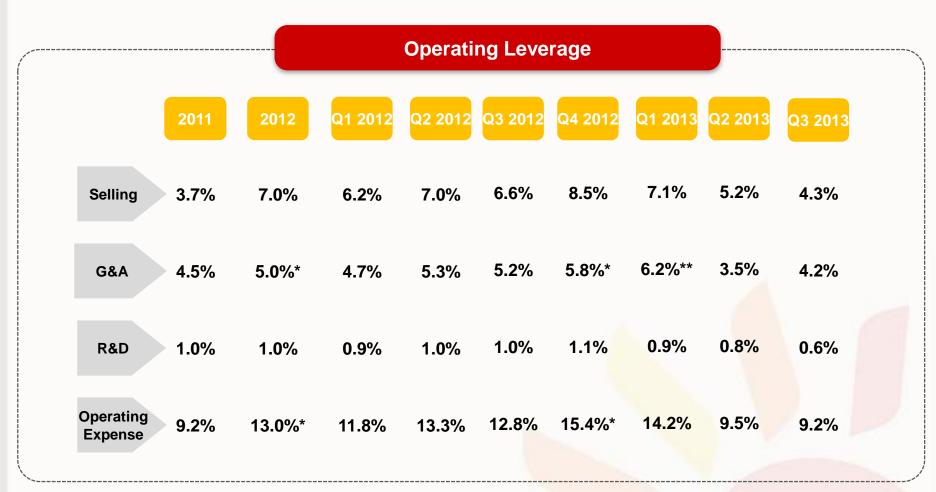
• Reconciliation of GAAP to Non-GAAP is found at the end of this presentation.

Gross Profit - US\$ million 15.3% 9.6% 7.0% 12.8% 20.4% 228.8 182.3 100.2 90.4 48.7 2010 2011 2012 2Q 13 3Q 13

Net Income (Loss) - US\$ million



Key Performance Indicators



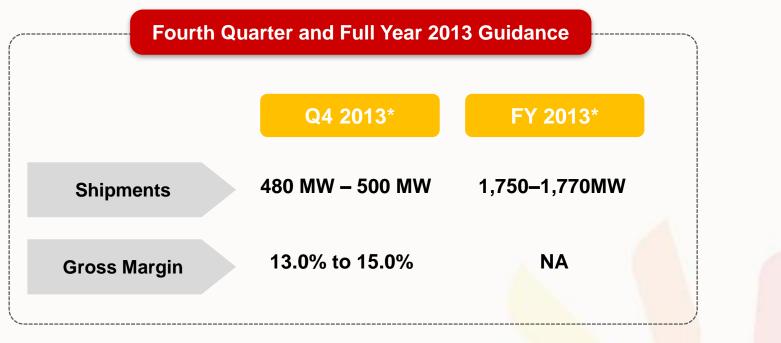
*Fourth quarter of 2012 excludes \$61.3 million non-cash provision for bad debt and arbitration award. Including these provisions, fourth quarter 2012 G&A and operating expenses represented 26.5% and 36.1% respectively. Fiscal year 2012 excludes \$64.2 million non-cash provision for bad debt and arbitration award. Including these provisions, G&A and operating expenses for fiscal 2012 represented 10.0% and 18.0% respectively; **Excludes arbitration award reversal totaling \$30 million.



US\$ million	September 30, 2013	June 30, 2013	December 31, 2012	December 31, 2011
Cash and Restricted Cash	681.7	540.6	564.3	522.3
Accounts Receivable	271.8	262.9	254.9	292.2
Inventories	220.6	218.5	274.5	296.6
Other Current Assets	479.0	566.0	348.5	184.5
Total Current Assets	1,653.1	1,588.0	1,442.2	1,295.6
Property, Plant and Equipment	426.8	441.9	469.6	510.1
Other Non-current Assets	273.7	229.5	347.5	74.1
Total Assets	2,444.3	2,259.4	2,259.3	1,879.8
Short Term Borrowings	801.6	813.6	858.9	743.7
Accounts Payable	589.7	463.1	<mark>461.</mark> 6	<mark>30</mark> 6.0
Other Current Liabilities	308.4	282.1	219.8	186.8
Total Current Liabilities	1,699.8	1,558.8	1,540.3	1,236.5
Non-current Liabilities	348.8	389.8	372.3	176.3
Redeemable non-control. interest	22.6	33. <mark>2</mark>	45.1	-
Total Equity	373.0	288.6	301.6	467.0
Total Liabilities and Equity	2,444.3	2,259.4	2,259.3	1,879.8



Outlook and Guidance



Company Press Release, *Nov 13, 2013



Selected Projects: Canada





Brockville I, Ontario Canada CSI Role: Project Owner and Developer Status: Sale to TransCanada closed Q2 2013 Brockville II, Ontario Canada CSI Role: Project Owner and Developer Status: Sale to TransCanada closed Q3 2013



Selected Projects: Canada



William Rutley, Ontario Canada CSI Role: Project Owner and Developer Status: Connected to the grid Note: Sale to TransCanada pending



Reconciliation of GAAP to Non-GAAP Measures

To supplement its financial disclosures presented in accordance with GAAP, Canadian Solar uses non-GAAP measures which are adjusted from the most directly comparable GAAP results for certain items, as described below. The Company presents non-GAAP adjusted net loss so that readers of the press release can better understand the underlying operating performance of the business before the impact of the provision for the arbitration decision and the bad debt allowance for doubtful accounts in the fourth quarter of 2012. The non-GAAP adjusted net loss is not a measure of financial performance under U.S. GAAP, and should not be considered in isolation or as an alternative to operating cash flows and other measures determined in accordance with GAAP.

Statement of Operations Data:

(In Thousands of US Dollars)

Twelve Months Ended

	December 31,2012	December 31,2011
GAAP net loss attributable to Canadian Solar Inc.	(195,469)	(90 <mark>,804)</mark>
Non-GAAP loss adjustment items:		
Bad debt allowances	34,191	18,537
Loss accruals for an arbitration in favor of LDK	30,054	
Non-GAAP net loss attributable to Canadian Solar Inc.	(131,224)	(72,267)





