

Investor Presentation

First Quarter Update

May 28, 2015





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Company Overview

- Founded in Ontario, 2001
- Listed on NASDAQ (CSIQ) in 2006
- Over 8,000 employees globally
- Presence in 18 countries / territories
- > 10 GW of solar modules shipped cumulatively
- > > 1.4GW solar power plants developed, built and connected (incl. Recurrent)
- Yield Co expected to be launched in the quarters ahead
- Top 3 solar company by revenue and profits in 2014*

Highlights

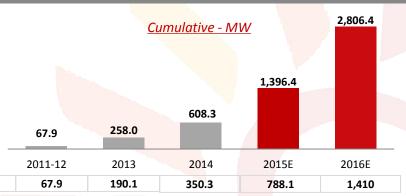
- 2014 Revenue: \$3.0 Billion
- 2014 Shipments: 3.1 GW
- 2014 Net Income: \$240 Million
- 2015 Shipment Guidance: 4.0 4.3 GW

Annual Total

Global Footprint and Brand



Solar Power Plants Built and Connected



^{*}Source: Factset, company analysis

Investment Highlights

- 1 Leveraged to strong secular growth in demand for solar energy
- **2** Global leader in solar project development business
- **3** Globally diversified pipeline supports the launch of our own YieldCo
- 4 Leading vertically integrated PV module manufacturer
- 5 Management team with a proven track record



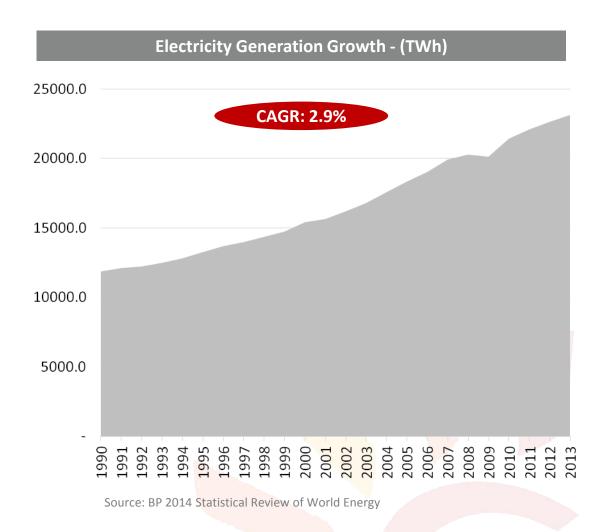
Levered to Strong Secular Growth in Demand for Solar Energy

- → Demand for electricity is not going out of fashion, with global demand growth expected to track GDP
- Renewable energy additions already surpasses conventional energy, and solar is expected to be the fastest growing source of electricity
- Global annual PV installation to break through 50GW in 2015, and near term demand is forecast to be healthy
- We believe we are at the very early stages of solar adoption, and see significant upside in demand for solar PV over the next 15 years



Demand for Electricity is not going out of Fashion

- Electricity consumption is expected to grow in line with GDP
- Aging fleet of coal and nuclear assets are expected to be decommissioned
- Environmental compliance is expected to force cost of conventional sources of electricity higher
- Cost of solar energy is expected to continue to decline as technology improves and economies of scale from widespread adoption prevail

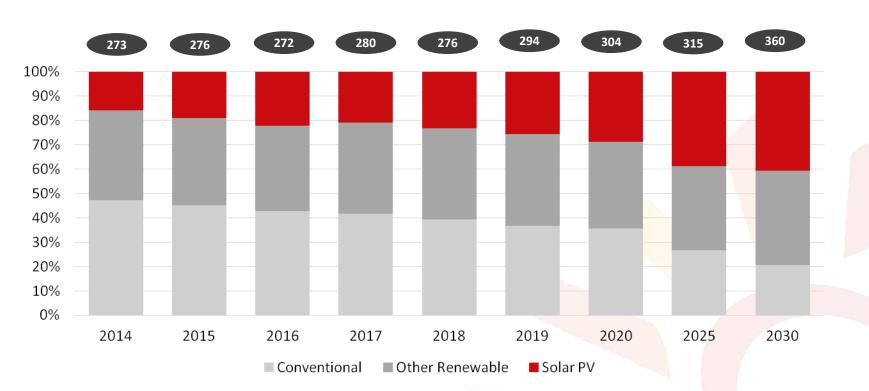




Renewable Energy Additions Already Surpasses Conventional Energy

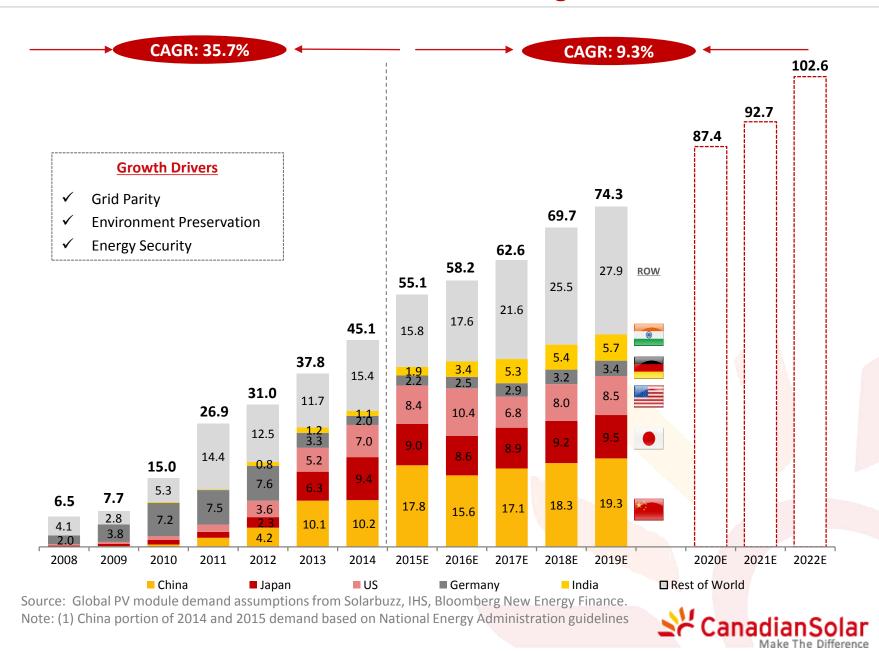
- In 2014, solar PV and other renewable energy capacity additions surpassed conventional energy for the first time, and solar PV is expected to dominate.
- Over the next 20 years the solar industry is expected to generate over \$5 trillion of cumulative revenue.

Global Capacity Additions - GW



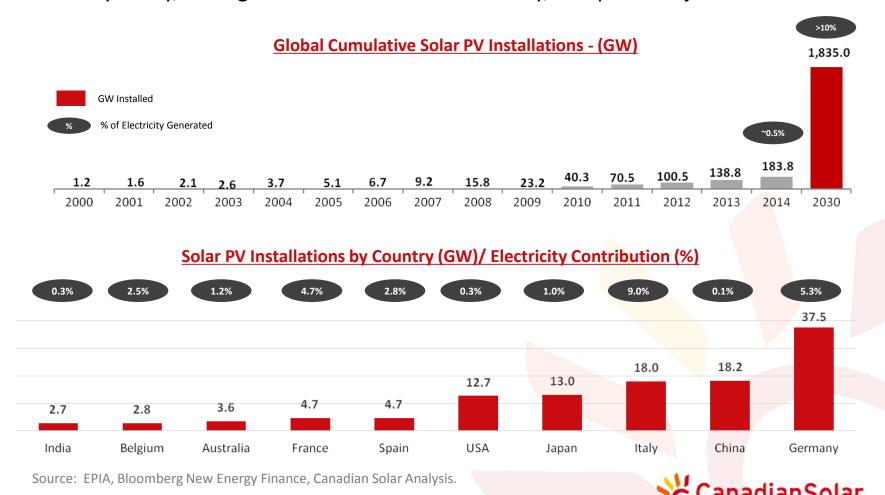
Source: Bloomberg New Energy Finance, Deutsche Bank

Global Annual PV Installation to Break through 50GW in 2015



We Are at the Very Early Stages of Solar Adoption

- Solar energy will grow from less than 1% of global electricity generation today to >10% by 2030.
- In Italy today, solar generates 9% of total electricity, compared to just 0.1% in China

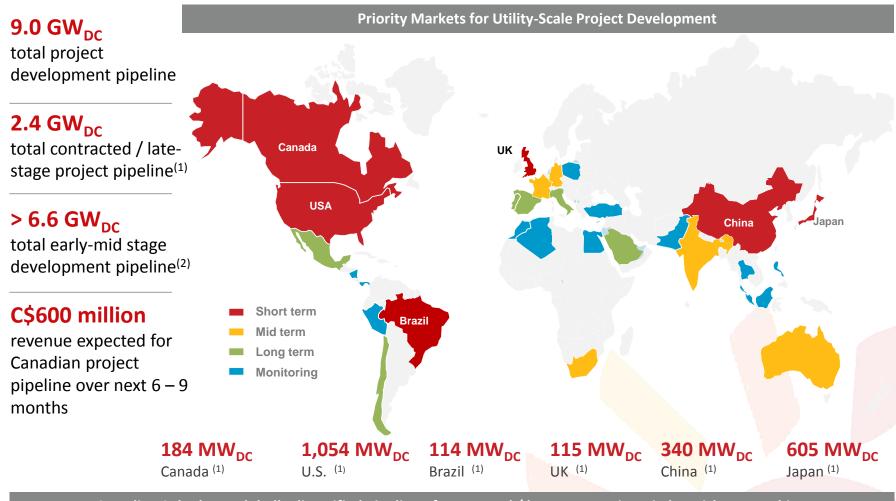


Global Leader in the Project Development Business

- Industry leading globally diversified utility-scale project pipeline
- Proven track record monetizing utility-scale solar projects
- Leading solar energy developer in the U.S., Japan, and Canada, with a growing presence in the U.K. and China
- Well positioned to launch our own YieldCo to create lasting value for our shareholders



Industry Leading Globally Diversified Project Pipeline



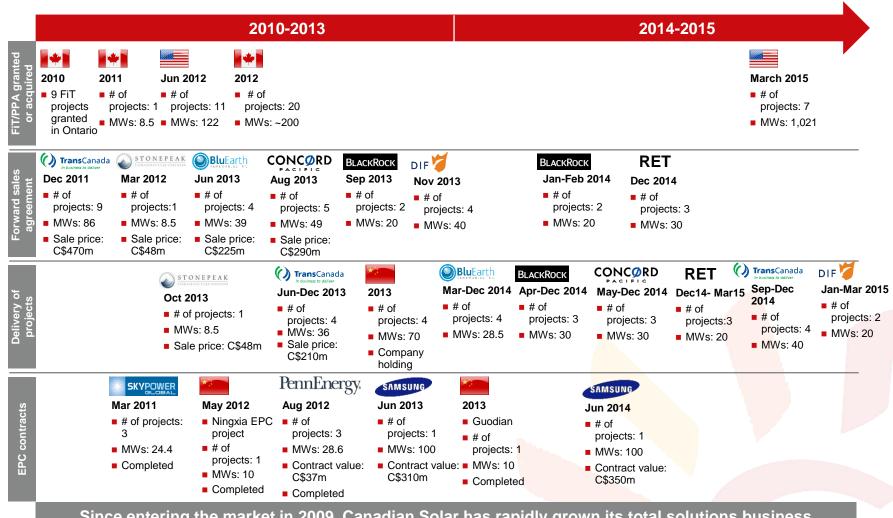
Canadian Solar has a globally diversified pipeline of contracted / late stage projects in low risk geographies

Source: Company information as of May 18, 2015

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 2-3 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 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 it can be secured.

Proven Track Record Monetizing Utility-Scale Solar 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}



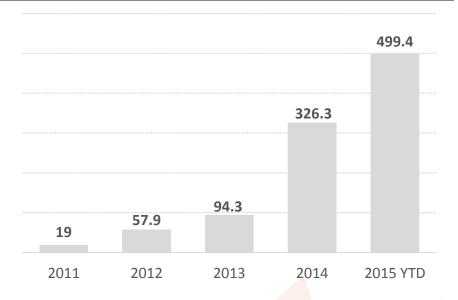
Leading Solar Energy Developer In Canada



184.2 MW to be Delivered in 2015

Canadian Solar Developed	MWp	Status	Expected COD	
Liskeard 1	13.9	SALE CLOSED IN 4014	_	
Liskeard 3 and 4	28.0	SALE CLOSED IN 3Q14	_	
William Rutley (1)	13.9	SALE CLOSED IN 3Q14	-	
Alfred	14.1	Engineering	2015 Q4	
Mississippi Mills	14.1	SALE CLOSED in 4Q13	_	
Burritts Rapids	9.8	SALE CLOSED in 3Q13	-	
Brockville 1	13.2	SALE CLOSED in 2Q13	_	
Brockville 2	12.5	SALE CLOSED in 3Q13	-	
Foto Light LP	14.0	SALE CLOSED IN 4Q14	-	
Illumination LP	14.0	In Construction	2015 Q4	
Little Creek	11.9	SALE CLOSED in 1Q14	-	
Gold Light LP	14.0	SALE CLOSED IN 1Q15	-	
Beam Light LP	14.0	In Construction	2015 Q4	
Earth Light LP	14.1	Engineering	2015 Q4	
Lunar Light LP	14.0	In Construction	2015 Q2	
Discovery Light LP	12.6	SALE CLOSED IN 4Q14	-	
Sparkle Light LP	14.0	SALE CLOSED IN 4Q14	_	
GlenArm LP	14.0	SALE CLOSED IN 1Q15	_	
Good Light LP	14.0	SALE CLOSED IN 3Q14	-	
Aria LP	14.8	In Construction	2015 Q4	
Ray Light LP	14.0	SALE CLOSED IN 4Q14	-	
Mighty Solar LP	14.0	SALE CLOSED IN 3Q14	-	
City Lights LP	14.0	SALE CLOSED IN 1Q15	-	
Highlight (Val Caron)	14.0	SALE CLOSED IN 2Q14	-	
Taylor Kidd	14.0	SALE CLOSED IN 3Q14	-	
Demorestville	14.0	SALE CLOSED IN 3Q14	-	
Oro-Medonte 4	11.5	SALE CLOSED IN 4Q14	-	
Westbrook	14.0	SALE CLOSED IN 3Q14	-	
Total CSIQ Developed (Pending COD)	85.0			
3 rd Party Developed (EPC)	MWp	Status	Expected COD	
Penn Energy	39.0	DELIVERED	_	
Samsung Phase I	133.6	In Construction	2015 Q2	
Samsung Phase II	141.0	In Construction	2015 Q3	
Total EPC Projects	274.6			
EPC MW Recognized into Revenue	175.4			
Total Project Backlog	184.2			

Projects Connected to the Grid – Cumulative MWp





Market Leader in the U.S. with 1.0GW Project Backlog



Includes Recurrent Energy Across North America

2.8 GWp

total pipeline

>1.6 GWp

contracted

>840 MWp

operating – developed and/or sold

>1 **GW**p

breaking ground in 2015



>900 MWp Total Contracted >1.8 GWp Early Stage Pipeline

Late-stage Pipeline



Operating by the end of 2016



Japan Utility-Scale Solar Project Pipeline



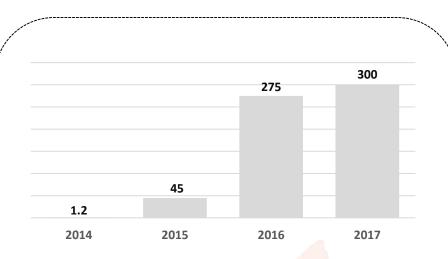
Total Solutions business – Japan

605 MW_p (1) late-stage project pipeline 500 MW_p (1) early stage assessment projects

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

Utility-Scale COD Schedule - MWp



- Weighted average FIT for the entire pipeline ¥36.2/kWh
- ~90 MW at NTP/RTB

Source: Company information as of May 18, 2015

- (1) Some of these projects may not progress to completion
- (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.

UK Utility-Scale Project Pipeline



Market Environment

- The UK government introduced the ROC in 2002, FiT in 2010 and CfD in 2014.
- The current ROC ranges from at £0.113 to £0.120 per kWh, which is equivalent to ~\$0.177 per kWh. Current FIT ranges from at £0.114 to £0.118 per kWh (~\$0.176 per kWh).
- The government has set targets for solar PV installations to reach a cumulative total of 20GW by 2020. ⁽¹⁾
- Cumulative installations reached 5.7GW in March 2015 $^{(2)}$, implying a demand of ~3.3GW range per year to reach the 2020 target.
- Overall, Solar PV capacity at the end of 2014 stood at 5.1GW, an increase of 79% compared to 2013 year end. (3)
- Deutsche Bank estimates \$1.71 per watt to build utility scale plant by 2017. Currently \$2.00. (4)

Project in Operation: 40MW

Our Late-Stage Pipeline:

115MW

Canadian Solar Position

- Canadian Solar has 40.2 MW connected to the grid in the UK and generating electricity.
- Canadian Solar will connect to the grid in Q2 2015 6.16
 MW and is expecting to connect additionally 46.5 MW in Q3 2015 and 62.2 MW in Q4 2015.
- In addition to the 40.2MW connected in Q1, Canadian Solar expects to connect a total of ~115MW by 2015 close.

Challenges

- ROC program for large utility projects (>5MW) no longer in existence.
- CfD program for large utility projects challenging because of the low strike price. (Low Project IRR)
- UK new government policy actually unpredictable.



^{(1) &}lt;a href="https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/255182/UK_Renewable_Energy_Roadmap_-5_November_-FINAL_DOCUMENT_FOR_PUBLICATIO___pdf

^{2) &}lt;a href="https://www.gov.uk/government/statistics/solar-photovoltaics-deployment">https://www.gov.uk/government/statistics/solar-photovoltaics-deployment

⁽³⁾ https://www.gov.uk/government/statistics/solar-photovoltaics-deployment

⁽⁴⁾ Source: Deutsche Bank

China Utility-scale Solar Project Pipeline



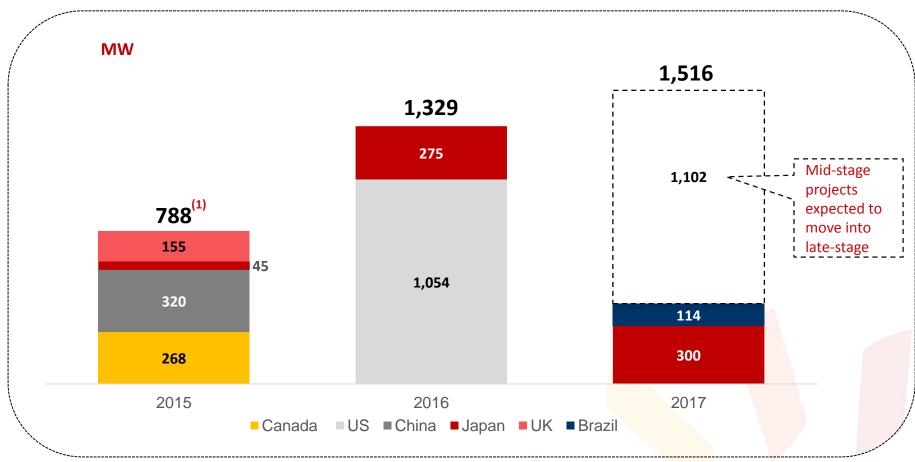


	Province	2015–16 Late Stage Project Opportunity (MW _{DC})	Feed In Tariff
1	Jiangsu	120 MW	RMB 1.0/kWh RMB 0.15/kWh (Prov.)
2	Shanxi	160 MW	RMB 0.95
3	Yunnan	10 MW	RMB 0.90
4	Sichuan	20 MW	RMB 0.90
5	Xinjiang	30 MW	RMB 0.90 to 0.95/kWh
	Total	340 MW _{DC}	

Source: Company information as of March 5, 2015



Globally Diversified Pipeline Supports the Launch of Our YieldCo



(1) Projects that COD in Q1-Q4 2015, includes projects partially completed and completed and sold in Q1 2015

Well positioned to launch our own YieldCo to create lasting value for our shareholders



Leading Vertically Integrated PV Module Business

- Global footprint with diversified customer base
- Bankable brand with high quality products
- * "Reverse Pyramid" asset light manufacturing capacity structure
- Industry leading manufacturing cost structure
- Competitive pipeline of homegrown technologies create opportunity for product differentiation

Global Footprint With Diversified Customer Base

> 10.0 GW

cumulative modules sold to date

Customers in over 90 countries

with offices in 18 countries

Established projects business

currently delivering services in 6 countries





Source: Company information

Bankable Brand with High Quality Products

Commercial & Utility-Scale MaxPower DIAMOND CS6P-M CS6P-P CS6X-P CS6K-P-PG

International Environmental & Quality Management Standards

- ISO 9001:2008 Quality Management System
- QC080000:2005 HSPM Hazardous Substance **Process Management**
- ISO 14001 Environment Management System
- ISO TS16949:2009 First PV manufacturer to adopt ISO TS16949 for PV quality control

International Testing Standards

OHSAS 18001 Occupational Health and Safety

Residential

CS6V-M



CS6V-P



All-black CS6K





■ IEC 61215 & IEC 61730, UL 1703

- & UL 790 & CEC
- CE conformity, MCS (EN45011)
- REACH Compliance

- **IEC 61215**
- **IEC 61730**
- IEC 61701:

Salt Mist Corrosion

- **Ammonia Resistance**
- PID free
- **REACH Compliant**





































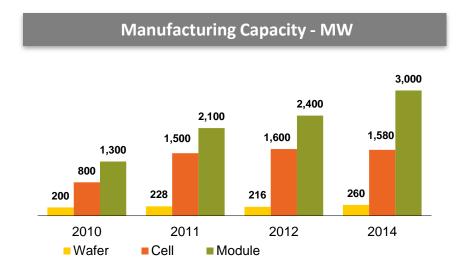




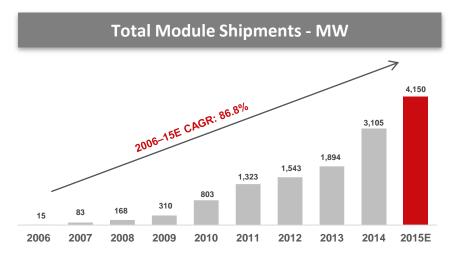




Reverse Pyramid Manufacturing Capacity Structure

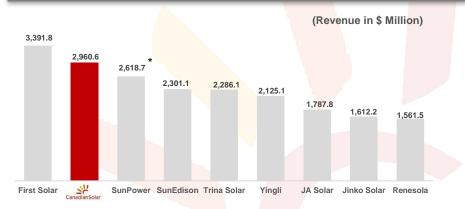


- Module capacity targeted to reach 3.8 GW in Q2 2015
- Cell capacity expansion in Funning, Jiangsu Province, in JV with GCL. Phase I targets net capacity to 400 MW by September 2015.
- In-house cell capacity targeted at 50% of module shipments
- Wafer capacity to reach 400 MW in 2015



Source: Company information

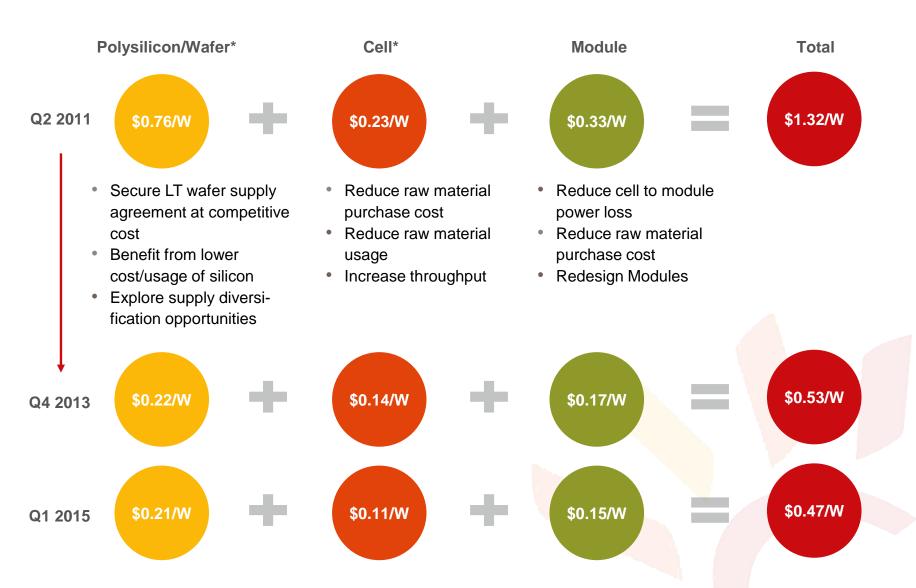
#2 Solar Energy Solutions Company by Revenue in 20141



Source: FactSet Data; * Non-Gaap



Industry Leading Manufacturing Cost Structure



Source: Company information, * Includes purchased wafers and cells.

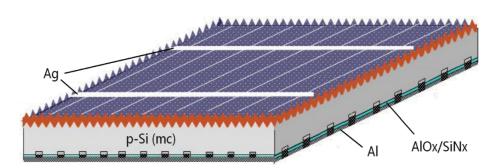
Competitive Pipeline of Homegrown Technologies

ONYX I – Black Silicon



- 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

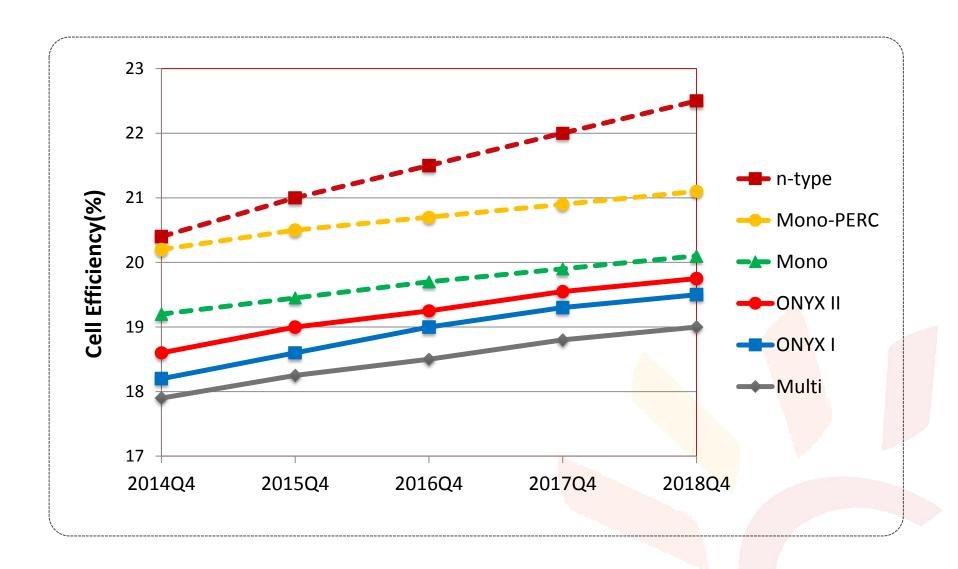
ONYX II - PERC



- ✓ ONYX II enhances back side passivation and increases cell efficiency to 19%
- Low Light Induced Degradation (LID), and Potential Induced Degradation (PID) resistant
- Production roll out begin in 2015 Q3, will gradually ramp up to 400MW



Cell Efficiency Roadmap





Experienced Board & Senior Management

1		
	Name / Title	Work Experience
	Dr. Shawn Qu Chairman, President & CEO (Director)	 Director & VP at Photowatt International S.A. Research scientist at Ontario Power Generation Corp.
3.5	Michael 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 at Motorola Inc.
and the second	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.
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.



Strategic Imperatives

Leverage existing downstream expertise to expand utility scale project opportunity and capturing value through the launch of a YieldCo Differentiation Expand residential and commercial system kits and turn key solutions Cost Continuously reduce manufacturing cost to remain competitive Expand capacity selectively in a cost-efficient manner to remain among top 5 suppliers to leverage scale and target 10% market share Scale Develop local manufacturing partnerships in key markets Focus research and development effort on achieving solar cell efficiency Technology improvements and on the introduction of new technologies

Canadian Solar aims to maintain profitability and to be the global leader in the manufacture and sale of solar module products and the development, ownership and operations of solar power plants.



Strategic Positioning

Business Model Manufacturing **Business** Reliable Predictable **Product** Demand Canadian Development and Solar **Total Solar Business** Growing Secured Pipeline **Funding Operating Assets** (Yield Co.)

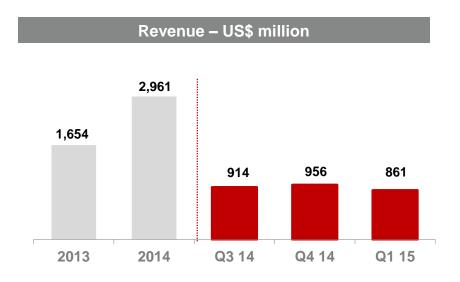
Key to Success

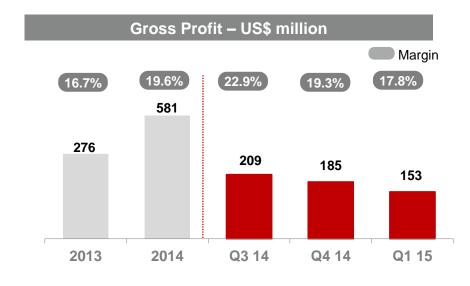


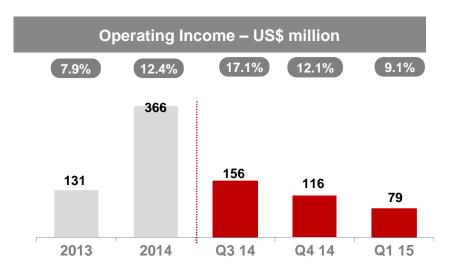


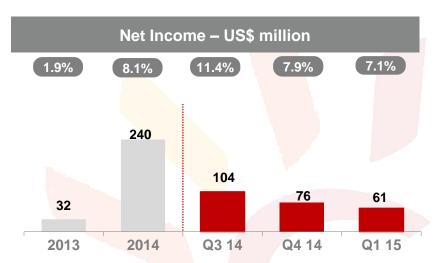


Income Statement Summary

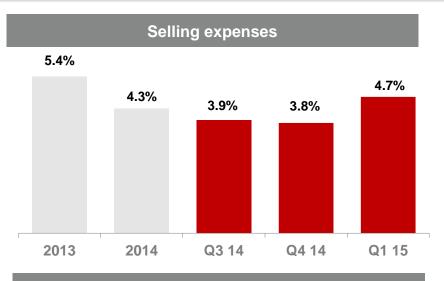




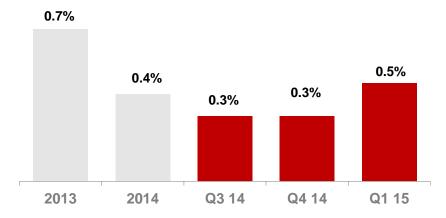




Operating Expenses as % of Net Revenue

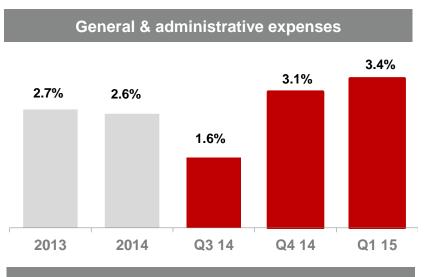




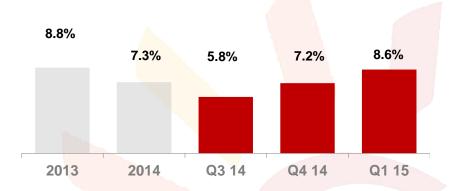


Source: Company filings

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

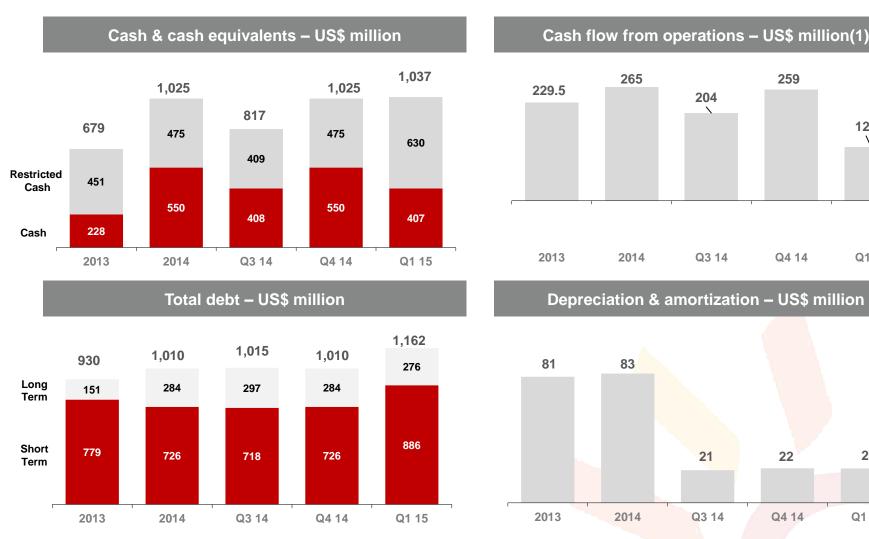








Selected Balance Sheet & Cash Flow Items



Source: Company filings

Note: (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



22

Q4 14

259

Q4 14

125

Q1 15

22

Q1 15

Guidance as of May 18, 2015

	Q1 2015	Q2 2015	FY2014	FY2015	ΥοΥ Δ%
Module shipments	1,000 MW – 1,030 MW	950 MW – 1,000 MW	3.1 GW	4.0 GW – 4.3 GW	+33.1%
Revenue	\$ 725 m to \$ 775 m	\$ 570 m to \$ 620 m	\$2.96 bn	\$2.8 bn to \$3.0 bn	Flat (2)
Gross margin	16% – 18% ⁽¹⁾	13% – 15% ⁽¹⁾	19.6%	NA	NA



¹⁻Includes module business and project business

²⁻Absent change in energy business model from build to sell, to build and operate, revenue for 2015 would be higher by over \$1.0 billion.

