

Investor Presentation

Second Quarter 2019 Update

August 2019

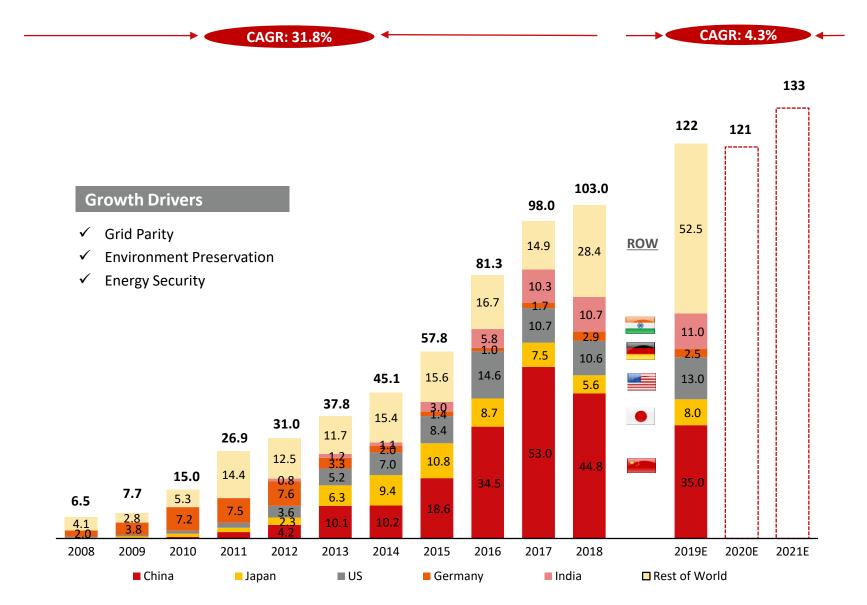
CSIQ NASDAQ Listed

Safe Harbor Statement

- This presentation has been prepared by the Company solely to facilitate the understanding of the Company's business model and growth strategy. The information contained in this presentation has not been independently verified. No representation, warranty or undertaking, express or implied, is made as to, and no reliance should be placed on, the fairness, accuracy, completeness or correctness of the information or the opinions contained herein. None of the Company or any of its affiliates, advisers or representatives will be liable (in negligence or otherwise) for any loss howsoever arising from any use of this presentation or its contents or otherwise arising in connection with the presentation.
- This presentation contains forward-looking statements and management may make additional forwardlooking statements in response to your questions. Such written and oral disclosures are made pursuant to the Safe Harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. These forward looking statements include descriptions regarding the intent, belief or current expectations of the Company or its officers with respect to its future performance, consolidated results of operations and financial condition. These statements can be identified by the use of words such as "expects," "plans," "will," "estimates," "projects," or words of similar meaning. Such forward-looking statements are not guarantees of future performance and involve risks and uncertainties. Actual results may differ materially from expectations implied by these forward-looking statements as a result of various factors and assumptions. Although we believe our expectations expressed in such forward looking statements are reasonable, we cannot assure you that they will be realized, and therefore we refer you to a more detailed discussion of the risks and uncertainties contained in the Company's annual report on Form 20-F as well as other documents filed with the Securities & Exchange Commission. In addition, these forward looking statements are made as of the current date, and the Company does not undertake to update forward-looking statements to reflect future events or circumstances, unless otherwise required by law.

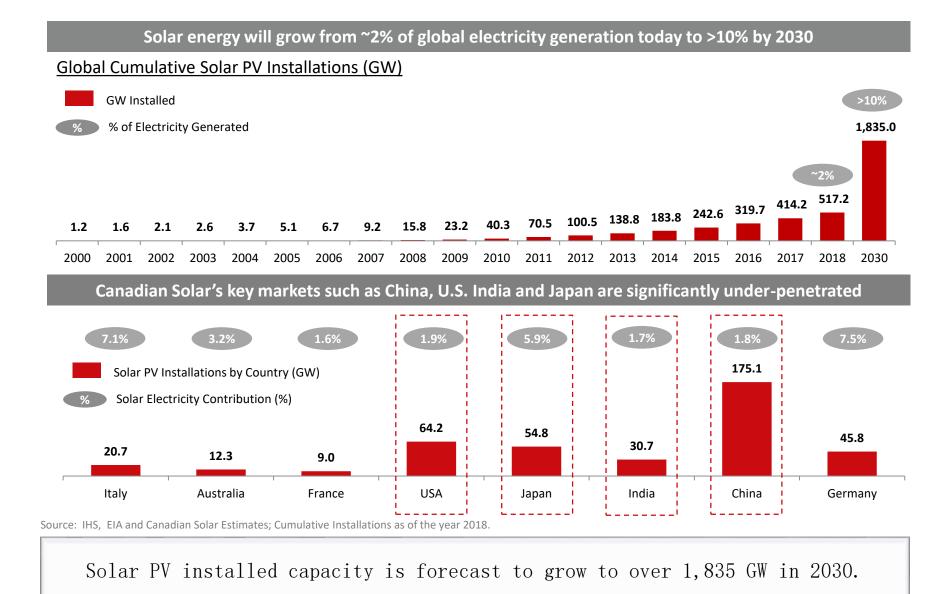


Global PV Installation Continue to Grow





We Are at the Very Early Stages of Solar Adoption





Company Overview

- 🗩 Founded in Ontario, 2001
- ⅔ Listed on NASDAQ (CSIQ) in 2006
- Over 11,000 employees globally
- Presence in 20 countries / territories
- अ > 36 GW of solar modules shipped cumulatively
- > 4.7 GWp⁽¹⁾ solar power plants built and connected (incl. Recurrent)
- A global Top 3 solar company by revenue and net income in 2018
- Canadian Solar's bankability rating topped #1 as 100% of respondents by Bloomberg New Energy Finance considered Canadian Solar modules bankable⁽²⁾

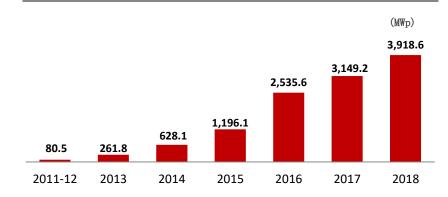
Highlights

- ⅔ Q2 2019 Shipment: 2,143 MW
- Q2 2019 Revenue: 1,036.3 million
- 2019 Shipment Guidance: 8.4 GW to 8.5 GW
- 2019 Revenue Guidance: \$3.5 billion to \$3.8 billion

Global Footprint and Brand



Solar Power Plants Built and Connected

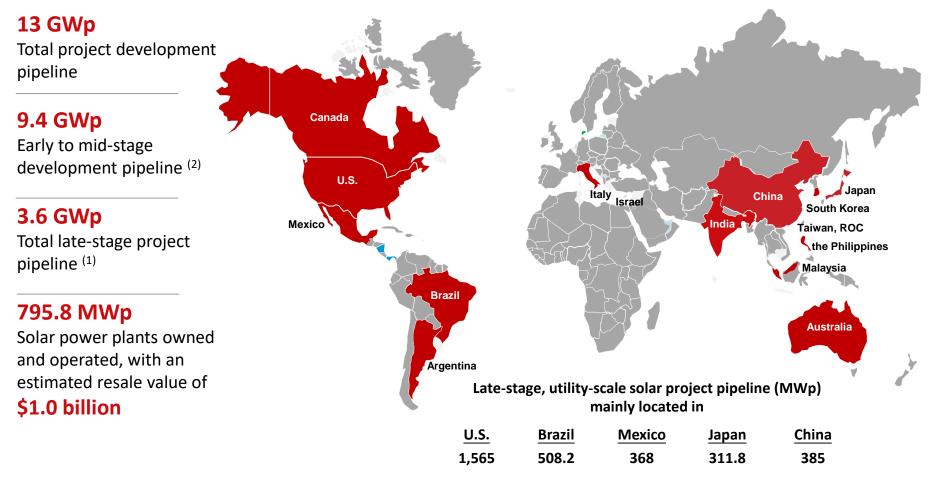




1. Includes solar power projects built and connected by Recurrent Energy before its acquisition by Canadian Solar in 2015 2. 2019 BNEF survey

Energy Business: Globally Diversified Project Pipeline

Global Late-stage Project Development Footprint



Source: Company information as of August 15, 2019

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



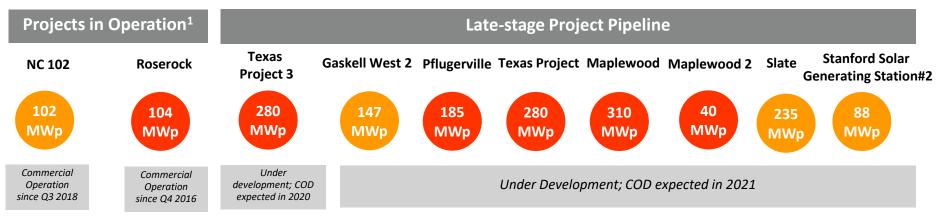
Market Leader in the U.S.

3.5 GWp Early to mid-stage pipeline

1,565 MWp Late-stage pipeline

205.9 MWp Owned and operated¹ **U.S. Late-stage Project Development Footprint**





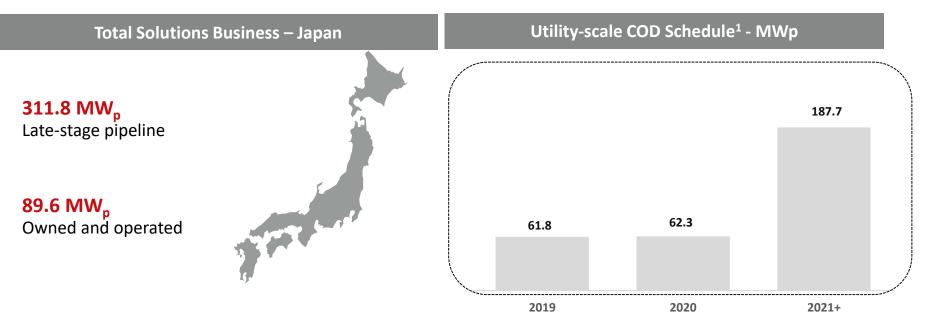
Source: Company information as of August 15, 2019

1. It represents the MWp owned by Canadian Solar.

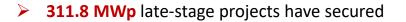


Japan Utility-scale Solar Project Pipeline





Note: (1) Expected COD are tentative estimates subject to change, due to delays in securing all the necessary permits among other risk factors.



interconnection agreement and FIT, including 94.4 MWp in

construction and 217.4 MWp under development



Yamaguchi Shin Mine plant: 56 MWp

Market Leader in Brazil and Mexico





Late-stage projects	Gross MWp	Location	Status	Expected COD	
Francisco Sa ⁽¹⁾	114.3	Minas Gerais	Development	2021	
Jaiba ⁽¹⁾	101.6	Minas Gerais	Development	2021	
Lavras ⁽³⁾	152.4	Ceara	Development	2021	
Salgueiro ⁽²⁾	114.3	Pernambuco	Development	2020	
Jaiba Expansao ⁽¹⁾	25.6	Minas Gerais	Development	2021	
Total	508.2				



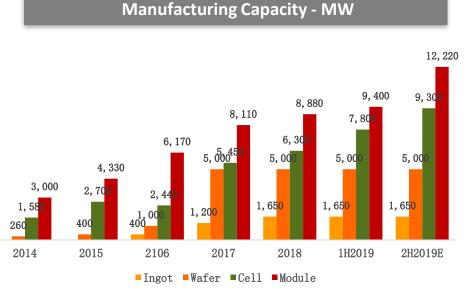
	Late-stage projects	Gross MWp	Location	Status	Expected COD
	EL Mayo ⁽¹⁾	124	Sonora	Development	2021
	Tastiota ⁽¹⁾	125	Sonora	Development	2020
2	Horus ⁽²⁾	119	Aguascalientes	Development	2020
	Total	368			

Source: Company information as of August 15, 2019

*The Company signed an agreement in April 2019 to sell 80% interest in the 482.6 MWp Brazilian late-stage projects and expects to close the deal in the coming months.

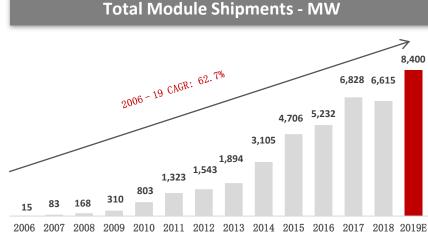


Expected Capacity with New Technology and Cost Reduction

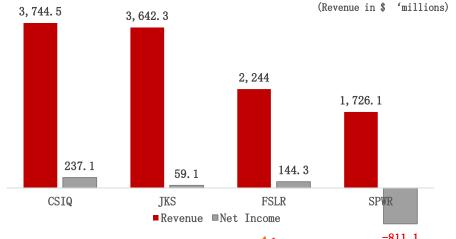


- Technology upgrade New products, new process, new design
 - ✓ Diamond wire-saw wafer
 - ✓ Black silicon
 - ✓ Mono PERC
 - ✓ Black silicon + Poly PERC
 - ✓ Casted Mono
 - ✓ Black silicon + Poly PERC + Bifacial
- Global Manufacturing Footprint
 - ✓ Brazil
 - 🗸 Canada
 - 🗸 China
 - ✓ South East Asia, including Thailand and Vietnam Taiwan

Operation efficiency improvements: Shorter cycle time and lower inventory



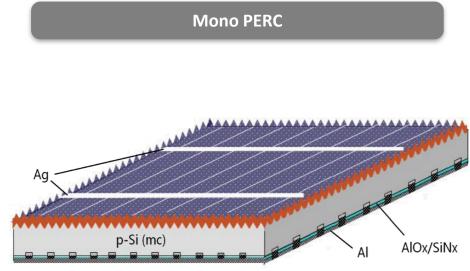




Source: Company information as of August 15, 2019 and public filings

Competitive Pipeline of Homegrown Technologies



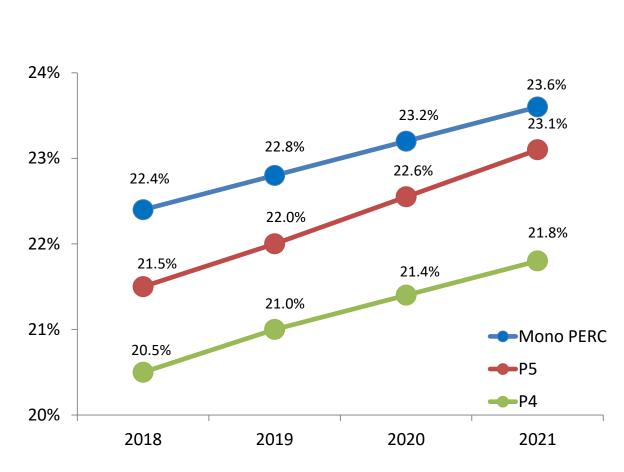


- 1% cell efficiency and 12 watts module power gain on 60cell module design over baseline; cell efficiency reached over 20.5% in mass production
- Over 5 years in-house R&D, self-owned IPs
- ~4GW in-house multi cell production used this technology at the end of Q4 2018
- 🧩 Pleasing aesthetics

- 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 320 Watt
- 100% mono cell production was upgraded to mono PERC at the end of 2017



Cell Efficiency Roadmap



Cell Efficiency

Highlights

- P4 (black silicon + poly PERC) will improve the multi-crystalline cell efficiency to 22% in 2021
- P5 (casted mono) has close to mono efficiency while at multi cost; Optimization is being continued during production ramp-up.
- Mono PERC cell efficiency can reach above 23% in mass production by 2020
- Non-PERC cell technologies
 will phase out in August
 2019



Source: Source: Company information as of August 15, 2019

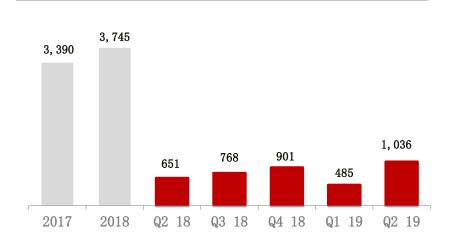
Experienced Board & Senior Management

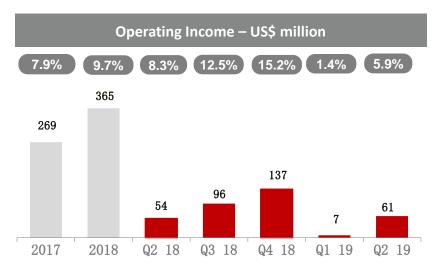
	Name / Title	Work Experience			
	Dr. Shawn Qu Chairman and CEO	 Founded Canadian Solar in 2001, and has since then, firmly established the company as a global leader of the solar industry Director & VP at Photowatt International S.A. Research scientist at Ontario Hydro (Ontario Power Generation Corp.) 			
R	Yan Zhuang Acting CEO, 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.			
	Dr. Huifeng Chang SVP and 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 			
	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. 			
	Ismael Guerrero CVP and President of Energy Group	 President, Head of Origination and COO at TerraForm Global Vice President of Global Projects at Canadian Solar Director of Operations for Asia at the Global Sustainable Fund 			
R	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 			
P	Dr. Guoqiang Xing SVP and Chief Technology Officer	 Chief Technology Officer of Hareon Solar R&D Director of JA Solar R&D Director at several semiconductor companies 			
Experienced Independent Directors	Robert McDermott Chair of the Nominating and Corporate Governance, and member of Audit and Compensation Committees	 Partner with McMillan LLP, a business and commercial law firm Director and senior officer of Boliden Ltd. 			
	Dr. Harry E. Ruda Chair of Technology, and member of the Audit, Nominating and Governance, and 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 Chair of the Compensation, and member of the Audit, Nominating and Governance 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. 			
	Arthur Wong Chair of the Audit Committee, and member of Nominating and Governance, and Compensation Committees	 Independent director and chair of the audit committee of China Automotive Systems, Inc., Daqo New Energy Corp., and China Maple Leaf Educational Systems Limited Various positions with Deloitte Touche Tohmatsu (Deloitte) in Hong Kong, San Jose and Beijing Chief Financial Officer at a variety of companies 			
Source: Com	pany information	Set Canadian Solar			

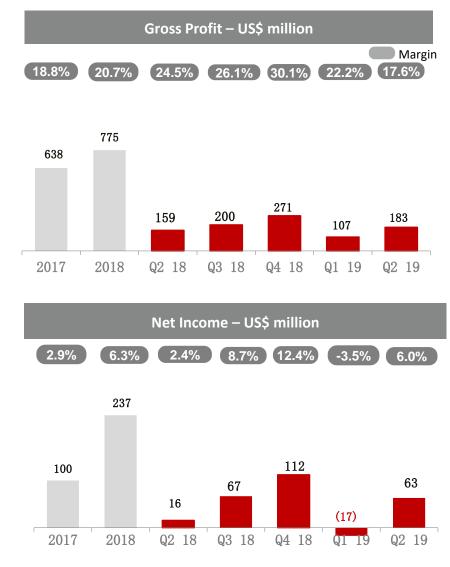
Make The Difference

Income Statement

Revenue – US\$ million

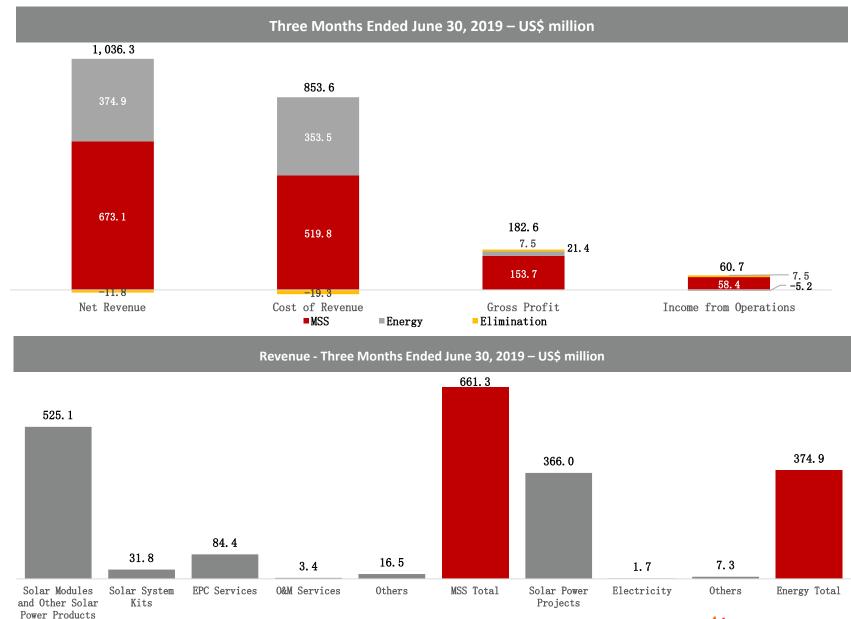






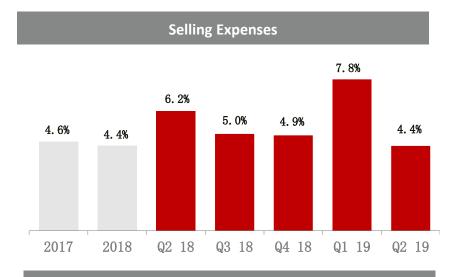


MSS Business and Energy Business - Revenue and Profitability

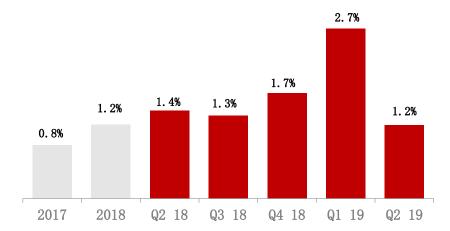


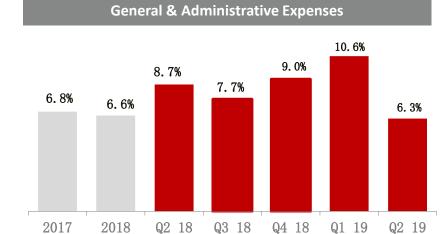
Make The Difference

Operating Expenses as % of Net Revenue

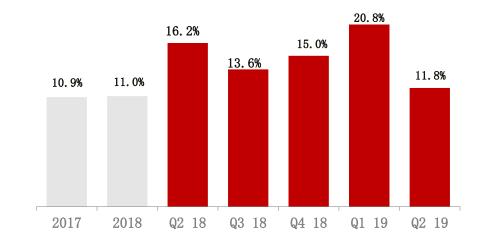


Research & Development Expenses





Total Operating Expenses



Source: Company filings

Note: Percentages are of the total net revenue in the corresponding period. The higher percentages of the expenses in Q1 2019 were mainly due to the lower revenue in that quarter compared with the previous quarters.

Guidance as of August 15, 2019

	Q2 2019	Q3 2019(E)	FY2018	FY2019(E)	ΥοΥ Δ%
Module Shipments	2,143 MW	2.2 GW to 2.3 GW	6,615 MW	8.4 GW to 8.5 GW	+27.7%
Revenue ⁽¹⁾	\$1,036.3 mn	\$780 mn to \$810 mn ⁽²⁾	\$3.74 bn	\$3.5 bn to \$3.8 bn	+1.6%
Gross Margin ⁽¹⁾	17.6%	24% to 26% ⁽²⁾	NA	NA	NA

1-Includes MSS business and Energy business.

2-The Q3 2019 revenue and gross margin guidance do not include potential sales of a project that may be completed in the third quarter. If the transaction is closed on time, total revenue for the third quarter is expected to be in the range of \$970 million to \$1 billion with gross margin between 27% and 29%.





THANK YOU

August 2019

