

Neo Solar Power Corporation



March 18, 2015

NSP at A Glance

- **Founded: December, 2005**
- **Products: cells and modules**
- **2014 Year-End Capacity:**
 - Cell: > 2.20 GW
 - Module: > 480 MW
- **Employees: 3,800**
- **Headquarters: Hsinchu, Taiwan**
- **Listed in Taiwan Stock Exchange**
 - **Market Cap US\$789 Million at the end of 2014**
- **The world's largest merchant cell company**



Milestones

- **2005.12: NSP founded**
- **2006.12: Breakeven and 100% utilization achieved**
- **2009.01: Listed on the Taiwan Stock Exchange**
- **2010.10: Launched "Super 17" (multi) & "Perfect 18" (mono) cells**
- **2011.09: Launched mono cell "Black 19" at EU PVSEC**
- **2012.09: Announced "Super 18" and "Black 19+"**
- **2013.05: Merged with DelSolar**
- **2013.10: Awarded "Taiwan Excellent PV Product" by the Bureau of Energy, Taiwan**
- **2013.10: Launched "Super19", "Black20" cells and "BiFi" bifacial module at PV Taiwan**
- **2014.06: Launched "Super" (multi), "Power" (mono) module, and half cut module "PowerH" at InterSolar EU 2014**
- **2014.12: More than 6.1 GW of Cells and Modules shipped globally since 2005**

Core Competences

Leading Quality

- Pioneer of combining semiconductor manufacturing discipline into our Taiwan-engineered quality solar solutions

World-Class Technology

- Inter-disciplinary experts in semiconductors, electronic systems, silicon raw materials, solar cell processing and solar energy system engineering
- State-of-the-art facility, equipment and knowledge

Prime Customer Services

- To enhance customer satisfaction and service efficiency
- To promote business relationship to partnership

The Executives



Dr. Quincy Lin

Chairman

- 30+ years of experience in high tech management
- Senior Vice President of Taiwan Semiconductor Manufacturing Company (TSMC)
- Honorary Chair in Management at National Chiao-Tung University



Dr. Sam Hong

CEO

- 30+ years of experience in PV solar energy
- Research Division Director of PV Solar Energy Division at the Industrial Technology Research Institute (ITRI); VP & Plant Director of Sinonar Solar Cell
- Chairman of Taiwan Photovoltaic Industry Association (TPVIA)

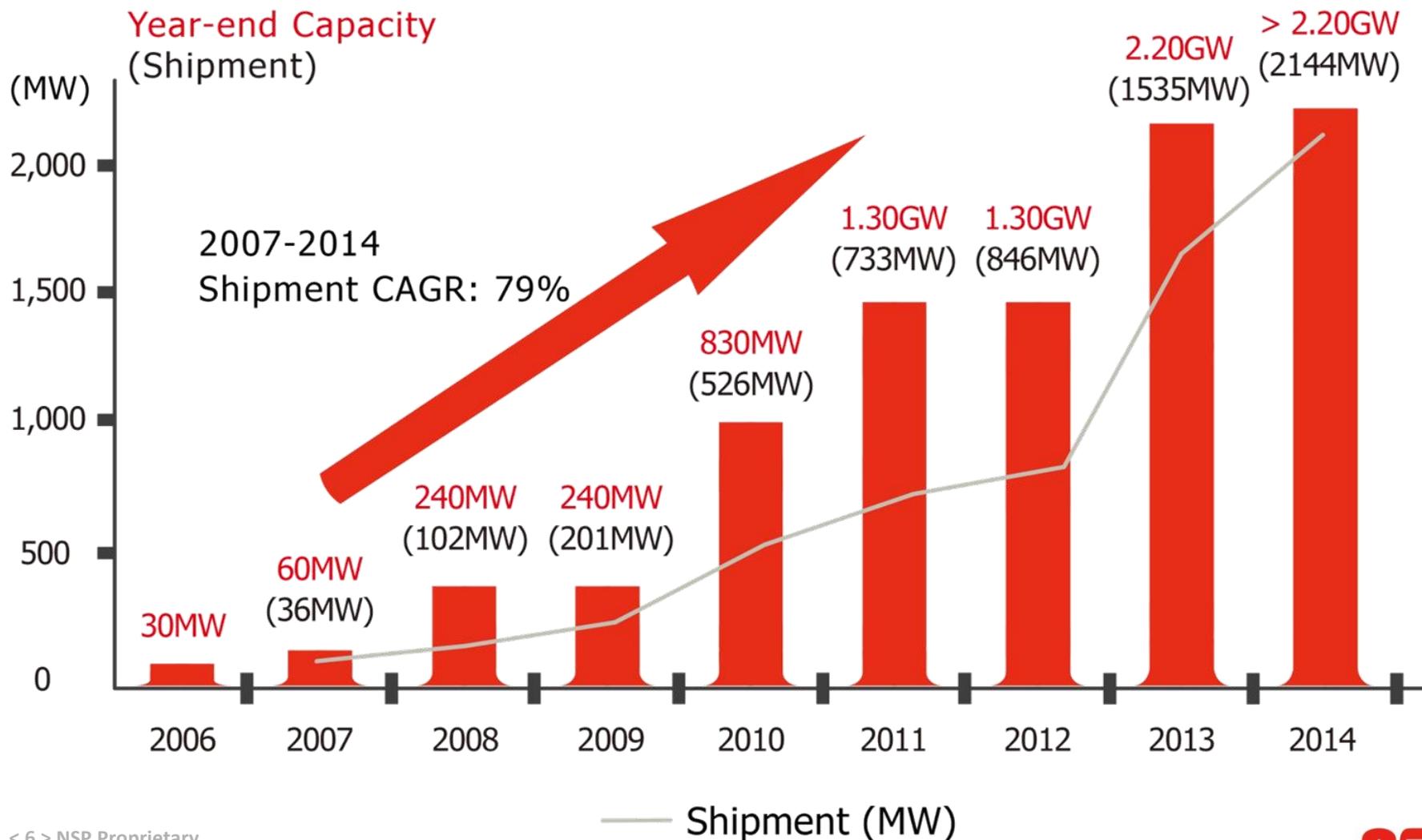


Mr. Andy Shen

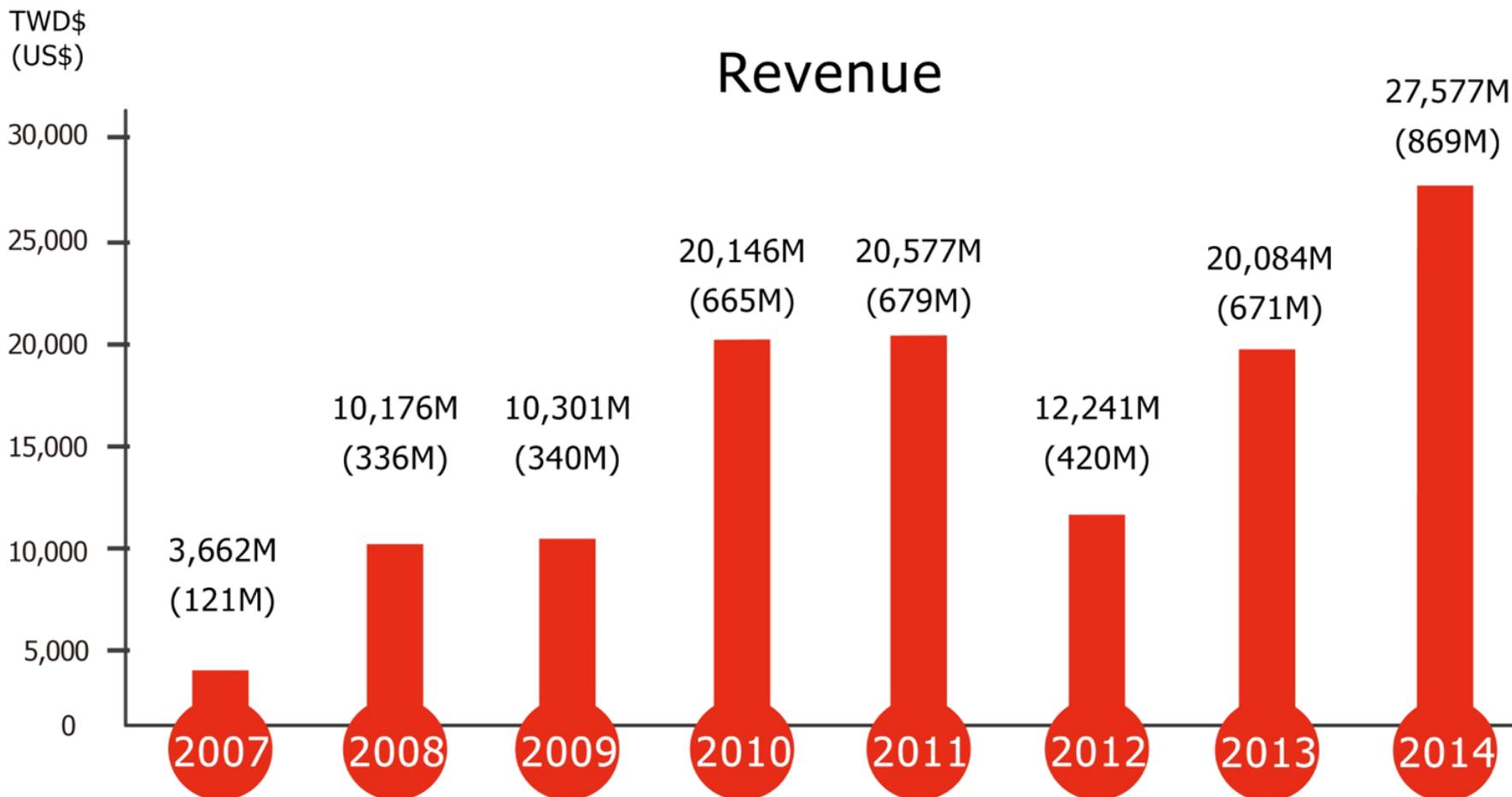
President

- 30+ years of experience in semiconductor engineering, sales and marketing
- Senior Director, TSMC
- Managing Director, TSMC-Europe

Strong Growth Momentum



Revenue Growth



- **2012 revenue declined despite 15.4% shipment growth due to ASP erosion**

Cell Capacity Overview

2014 Total Capacity: > 2,200 MW

China : > 400 MW



FAB 6



Wujiang, Suzhou

Taiwan : > 1,800 MW



FAB 2 & HQ

Hsinchu Science Park



FAB 5

Chunan Science Park



FAB 3

Tainan Tech. Ind. Park

Module Capacity Overview

2014 Total Capacity: > 480 MW

China : > 180 MW



FAB 52



Wujiang, Suzhou

Taiwan : > 230 MW



GES (NSP Subsidiary)
Hsinchu Ind. Park



FAB 51
Hsinchu Science Park

Strong R&D Capability

- **World leader in efficiency and yield**
- **Advanced characterization based on years of experience in semiconductor device physics for optimized performance**
- **Excellent manufacturability and reliability to shorten time to market**
- **Customer oriented technology road map to support advanced products and partnership**



Proven Module Capability



- **Power tolerance of 0 to +4.99 W providing a stable, high-energy system output**
- **High PV cell shunt resistance enabling increased power output in low light conditions**
- **Low temperature coefficients of power to produce high power output in all weather conditions**
- **High efficiency solar cells and state-of-the-art manufacturing technology to enhance cost efficiency per kWh**
- **High wind/snow load tolerant**
- **Ammonia-resistant according to IEC 62716**

NSP Module Features

● Standard Offerings



Positive power tolerance
0~+4.99 watt



Withstand strong wind/snow load up to 5400 Pa
Pass ASTM E330
Maximum wind speed: 197 km/h (safety factor 3)



Excellent low light performance
3.5% relative eff. reduction at low-irradiance (200W/m²)



Certified ammonia resistance
According to IEC 62716 Ed. 1



100% EL inline inspection
Better module reliability



Prolonged aging test
2000 hours damp heat test; 400 thermal cycles



Compliance with RoHS and REACH



PID resistant
Enhanced module reliability

● Customized Offerings



Salt resistant
According to IEC 61701 Ed. 2 (severity 6)

Your Best Solar Partner

World's top merchant solar cell manufacturer with proven track record in quality

Strong R&D commitment and technology leadership

Industry leading performance and reliability for our solar solutions

Cost effective structure

Strong and diverse customer base

Experienced and well-recognized management team with strong industry background



Largest BIPV in Taiwan



- **Taiwan National Stadium, 1MW PV System, EPC by Delta, Solar cell by NSP**
- **Architect: Toyo Ito**
- **The largest building-integrated PV system in Taiwan**
- **Annual CO₂ reduction: 660 MT**
- **Annual Power Generation: 1.1 M KWh**

Largest Airport PV System

- **USA Indianapolis Airport
25 MW PV System
Solar cell by NSP**
- **On-grid ceremony
Oct. 18, 2013**
- **PPA with Indianapolis
Power and
Light Company (IPL)**
- **Annual CO2 reduction
8,529 MT**
- **Annual Power Generation
30M KWh**



Corporate Social Responsibility

● Environmental Sustainability

- Voluntary Commitment: A Member of PV Cycle
 - Recycling end-of-life solar modules through PV cycle
 - Minimizing environmental impact of end-of-life products
- Carbon Footprint Verification
 - Received the Reasonable Level of Assurance (the highest level for this certification)
- Waste Recycling
 - Management initiated waste reduction and recycling
- Environmental Management System
 - Assuring that environmental impact is being measured and improved



PAS 2050 : 2011



PAS 2050 : 2008



ISO 14001 : 2004

Corporate Social Responsibility

● Employee Well-being

● Safety and Health

- Adapting occupational health and safety management systems
- Training for laboratory work safety improvements



OHSAS 18001 : 2007

● Training and Development

- Set up internal training programs and provide information on external training courses
- Established E-learning platform and has been encouraging and promoting training courses



TOSHMS

● Workplace Wellness

- Practices of work-life balance
- Elimination of discrimination
- Promotion of physical and mental health



Corporate Social Responsibility

- **Social Contribution**

- Volunteer Programs

- Environmental Care Volunteers:
Educating the public with knowledge on green energy, energy saving and environmental protection
- Social Care Volunteers:
Caring for community, society and the environment



Thank You

Neo Solar Power Corp.

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