

March 21, 2014



NSP at A Glance

Founded: December, 2005

Products: cells and modules

2014 Year-End Capacity:

Cell: 2.12 GW

Module: 480 MW

Employee: 3,100

Headquarters: Hsinchu, Taiwan

Listed in Taiwan Stock Exchange

Market Cap US\$1.14 Billion at the end of 2013

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
- 2009.09: Ranked No. 6 in Deloitte Technology Fast 500 APAC Ranking
- 2010.10: Launched "Super 17" (multi) & "Perfect 18" (mono) cells
- 2011.04: Achieved complete carbon footprint verification
- 2011.09: Launched mono cell "Black 19" at EU PVSEC
- 2012.09: Announced "Super 18" and "Black 19+"
- 2013.05: Merged with DelSolar to became the world's largest merchant solar cell manufacturer
- 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



Core Competences

Leading Quality

• The pioneer of combining semiconductor manufacturing discipline into our Taiwan-engineered quality solar solutions



- 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")

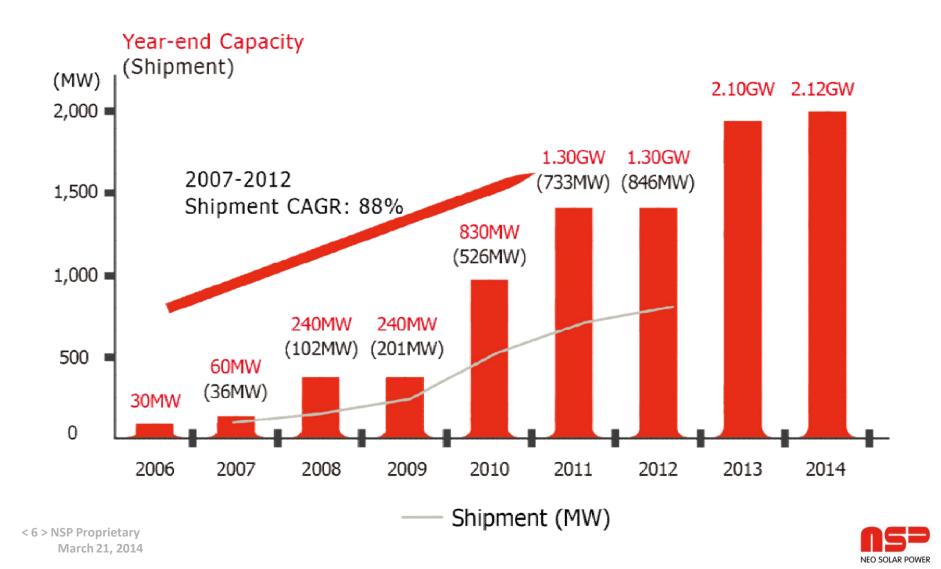


Mr. Andy Shen President

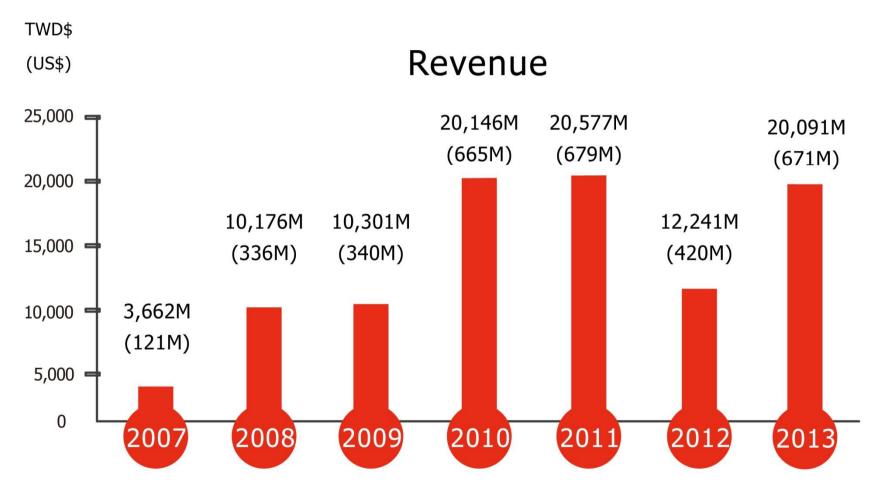
- 30+ years of experience in semiconductor engineering, sales, and marketing
- Senior Director, TSMC
- Managing Director, TSMC-Europe



Strong Growth Momentum



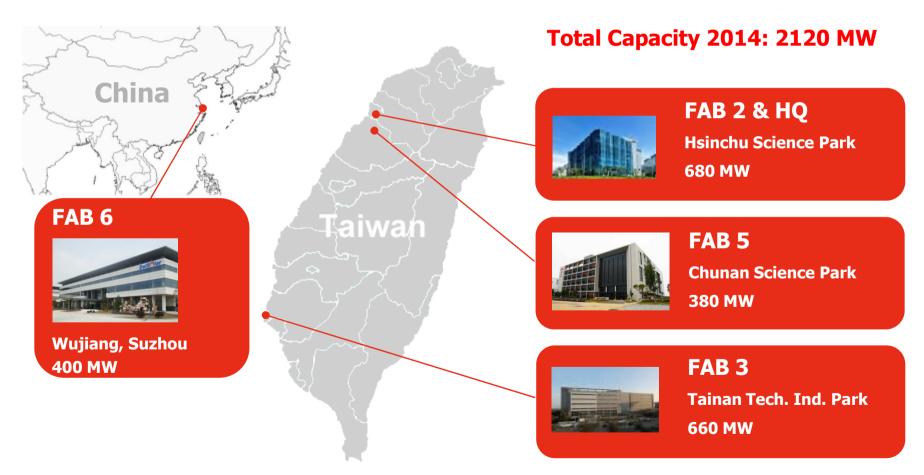
Revenue Growth



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

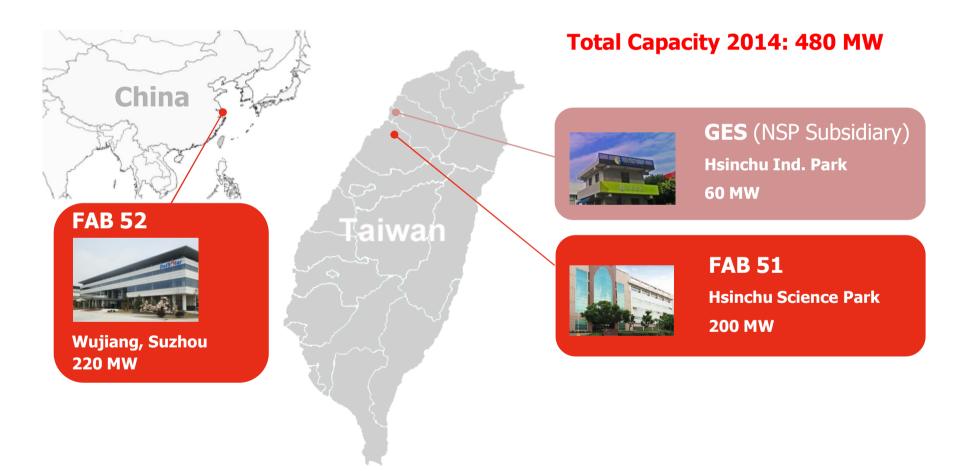


Cell Capacity Overview





Module Capacity Overview





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







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-art manufacturing technology to enhance cost efficacy 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



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

Customized Offerings



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



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



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 the world
- Annual CO2 reduction: 660 MT
- Annual Power Generation: 1.1 M KWpH



Airport PV System by GES

- USA Indianapolis Airport, 25 MW
- 12.5 MW completed
- On-grid ceremony Oct. 18, 2013
- PPA with Indianapolis
 Power and
 Light Company (IPL)









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