

The logo for Sino-American Silicon Products Inc. features the company name in white, italicized, sans-serif font centered on a solid green rectangular background. To the left of this green box is a vertical strip of a blue sky with white clouds. To the right of the green box are two vertical strips: the first shows a small green seedling with two leaves growing out of dark brown soil, and the second shows blue water with gentle ripples.

***Sino-American
Silicon Products Inc.***

Financial Result of 1st Quarter 2017

07 Jun, 2017



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Solar Business Sector



Project Sepalco, Philippines

Company Profile

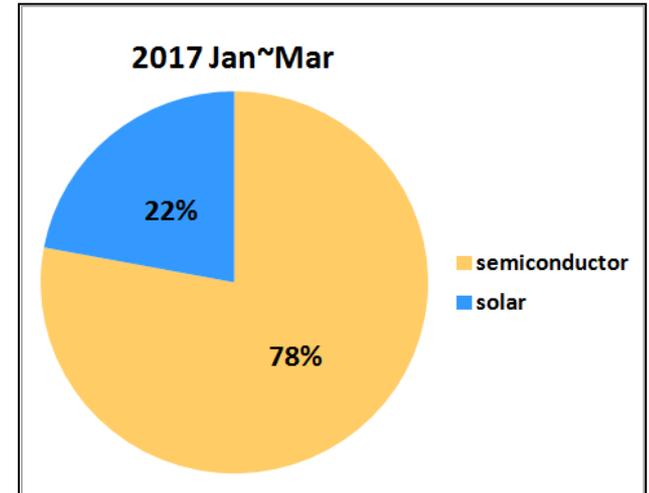
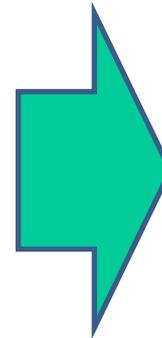
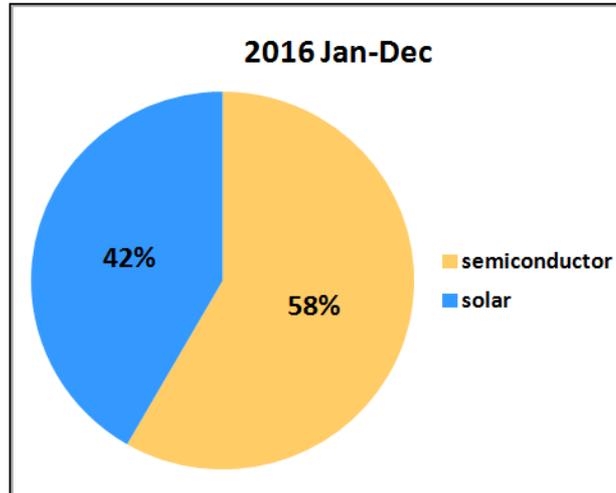
- **Established** : 1981
- **Paid-in Capital** : TWD 5,800mn
- **Employees** : 8,545 (2017/03)
- **Headquarter** : Hsinchu Science Park, Taiwan R.O.C.
- **Products** : Solar Wafer / Cell / Module / Power Plant
Semiconductor Wafer (3"~12")
- **Revenue** : 2017 Jan~ Mar TWD 13,577 mn

~ all-time high ~

2014

2015

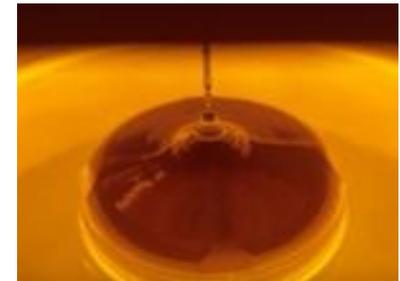
2016



Milestones



- 1981** Sino-American Silicon Products Inc. established
.....
- 1999** SST established in China
- 2000** Enter Solar Ingot / Wafer Business
- 2001** SAS IPO in Taiwan (5483 TT)
- 2008** Acquired GlobiTech Incorporated, TX, USA
- 2011** Company spin off – SAS / GWC / SSC
- 2012** Acquired Covalent Silicon, Japan
- 2014** Acquired ALEO module fab of Bosch group, Germany
Merged Sunrise Global Solar Energy Co., Ltd. Taiwan
- 2015** SAS Sunrise Inc. (SSR) established for Solar Power
Plant, Project Palo ground breaking
- 2015** GWC IPO in Taiwan (6488 TT)
- 2016** 50MW Power Plant(Project Palo) completed in Mar 2016
- 2016** Acquired Topsil Semiconductor Materials A/S (Denmark)
silicon (FZ and CZ) activities
- 2016** Acquired SunEdison Semiconductor, Ltd. (SEMI)



Organization



sapphire

semiconductor

solar

40.38% **Crystalwise**
formerly Sino Sapphire Co., Ltd.

50.84% **GWC**
GlobalWafers Co.,Ltd, Taiwan

100% **SAS**
(Chunan fab)

30% **CSC**
Cathay Sunrise Corp.

100% **SSY**
(Yilan fab)

100% **SSR**
(British Cayman Islands)

100% **SEMI**
SunEdison Semiconductor, Ltd. USA etc.

100% **SST**
Sino Silicon Technology China

100% **GT**
GlobiTech USA

100% **GWJ**
GlobalWafers Japan

100% **TGW**
Topsil GlobalWafers Denmark

100% **ALEO**
aleo solar GmbH Prenzlau, Germany

100% **ALEO-SUNRISE**
aleo sunrise GmbH Prenzlau, Germany

SEPALCO
Palo Philippines

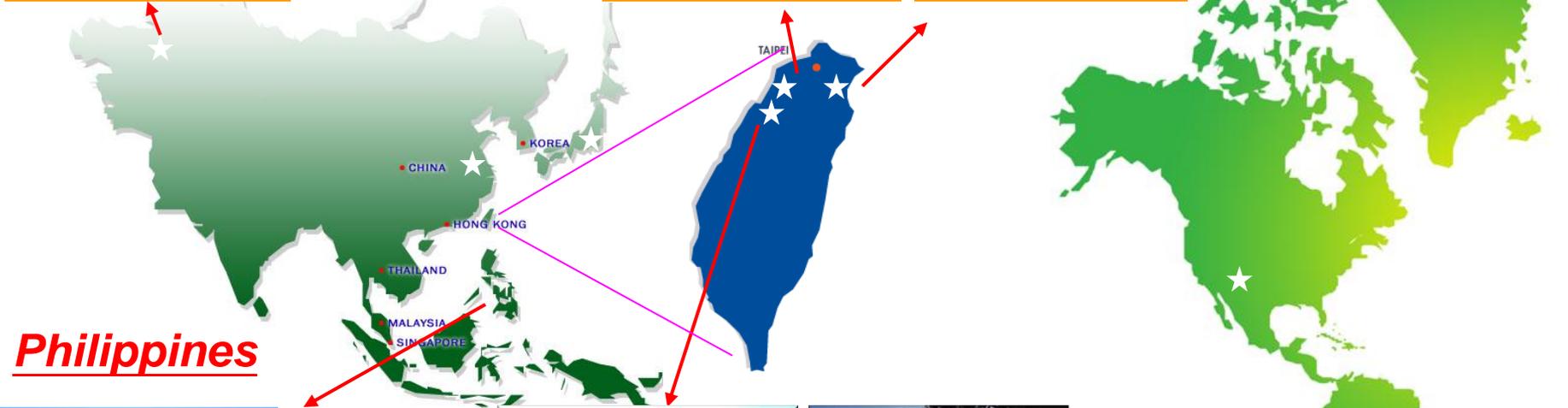
SAS Group (Solar)



Europe



Taiwan



Philippines



Taiwan

SAS Consolidated Financial Statements



TWD mn	2014	%	2015	%	2016	%
Revenue	27,821	100	28,269	100	31,599	100
Gross Margin	3,498	13	4,271	15	3,435	11
Operation Income	1,447	5	2,237	7	42	0
PBT	1,925	7	1,960	6	(856)	(3)
PAT	1,128	4	535	1	(1,589)	(5)
Total Debt & Debt ratio	19,304	47	17,617	38	55,787	67
ROE (%)	6.16		4.21		(6.16)	
EPS	2.06		0.93		(2.77)	

*ROE: annualized rate

SAS Consolidated Financial Statements



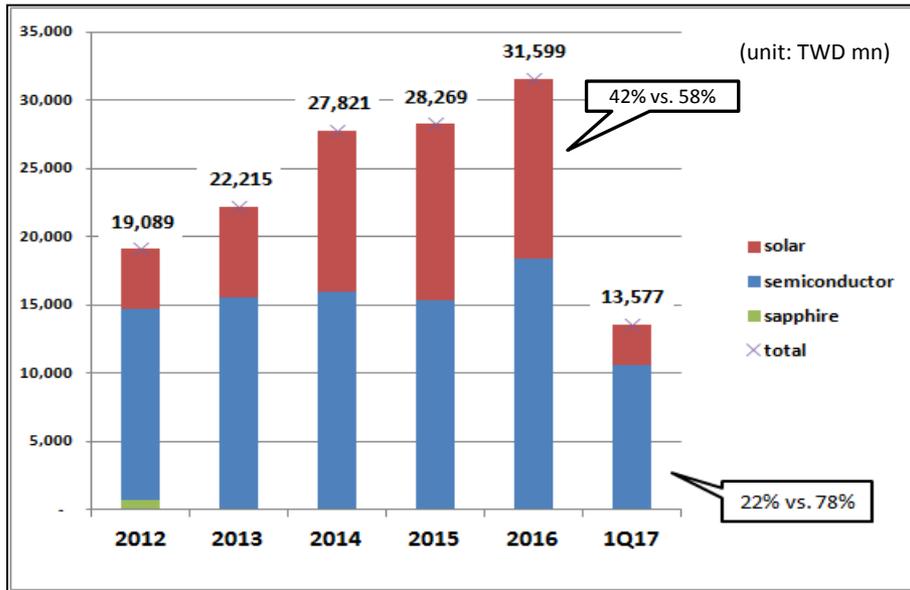
TWD mn	1Q16	%	2Q16	%	3Q16	%	4Q16	
Revenue	7,091	100	7,549	100	7,184	100	9,775	100
GM	1,123	16	1,363	18	220	3	729	7
OI	567	8	780	10	(404)	(6)	(901)	(9)
PBT	398	6	514	7	(1,058)	(15)	(710)	(7)
PAT	207	3	292	4	(1,304)	(18)	(784)	(8)
Total Debt & Debt ratio	17,850	37	19,676	39	20,600	43	55,787	67
ROE (%)	1.16		1.54		(4.13)		(4.34)	
EPS	0.36		0.51		(2.27)		(1.37)	

SAS Consolidated Financial Statements



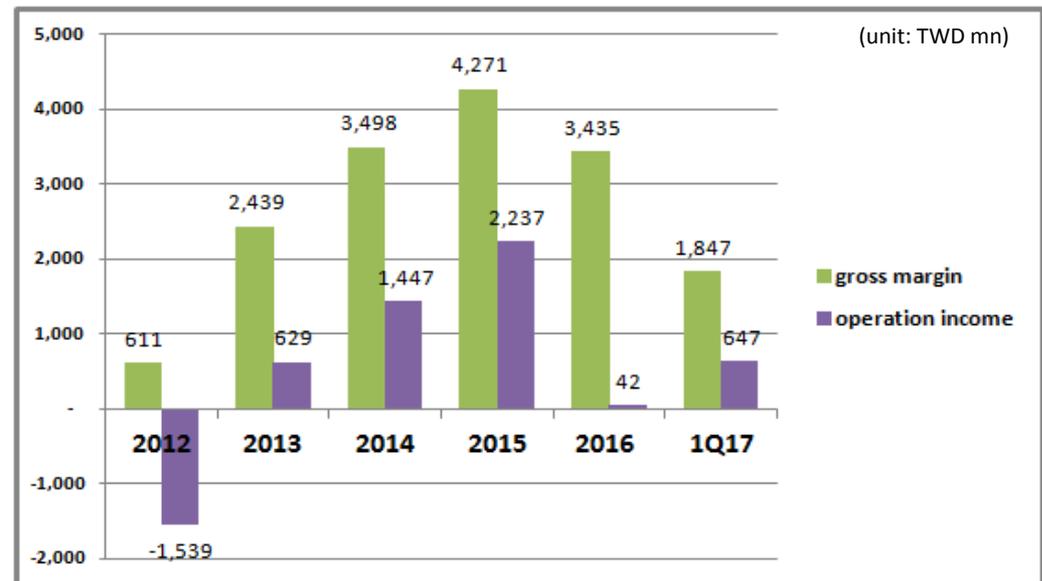
TWD mn	1Q17	%	2Q17	%	3Q17	%	4Q17
Revenue	13,577	100					
GM	1,847	14					
OI	647	5					
PBT	(9)	0					
PAT	(405)	(3)					
Total Debt & Debt ratio	54,424	66					
ROE (%)	(1.06)						
EPS	(0.7)						

SAS – Financial Statements 2012~2017



Sales revenue
Product mix

Gross margin
Operation Income



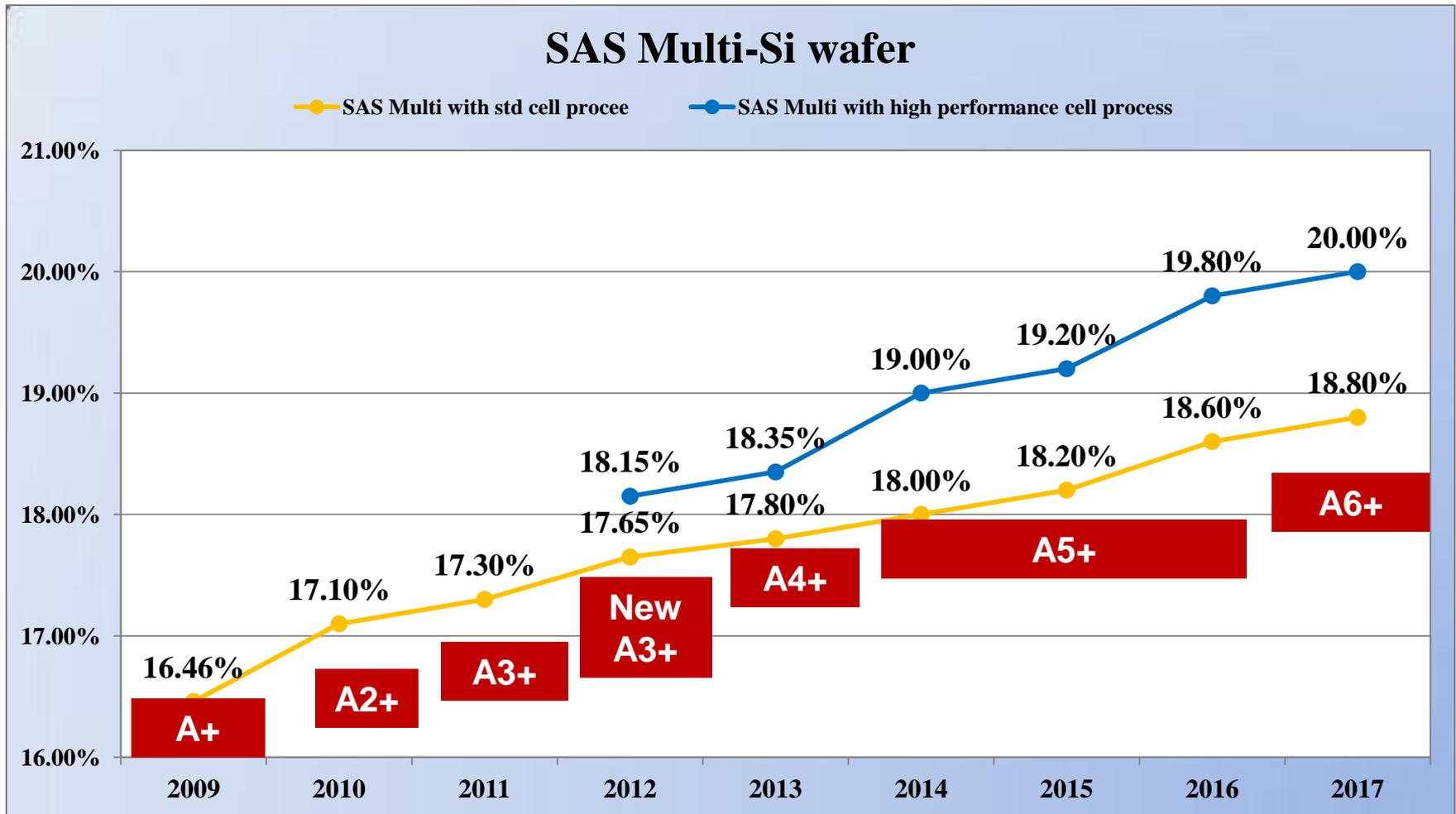
SAS Solar Manufacturing Site



(unit: MW)

	Company	Products	2015	2016	2017	Location
S A S		<i>Wafer</i>	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>	<i>Taiwan</i>
		<i>Cell</i>	<i>800</i>	<i>800</i>	<i>800</i>	<i>Taiwan</i>
	Aleo-Sunrise		<i>0</i>	<i>200</i>	<i>200</i>	<i>Germany</i>
		<i>Module</i>	<i>340</i>	<i>340</i>	<i>340</i>	
		<i>Solar Farm</i>	<i>0</i>	<i>70</i>	<i>50~100</i>	<i>Taiwan</i>
	CSC					<i>Japan...</i>

Multi Wafer Technology Roadmap

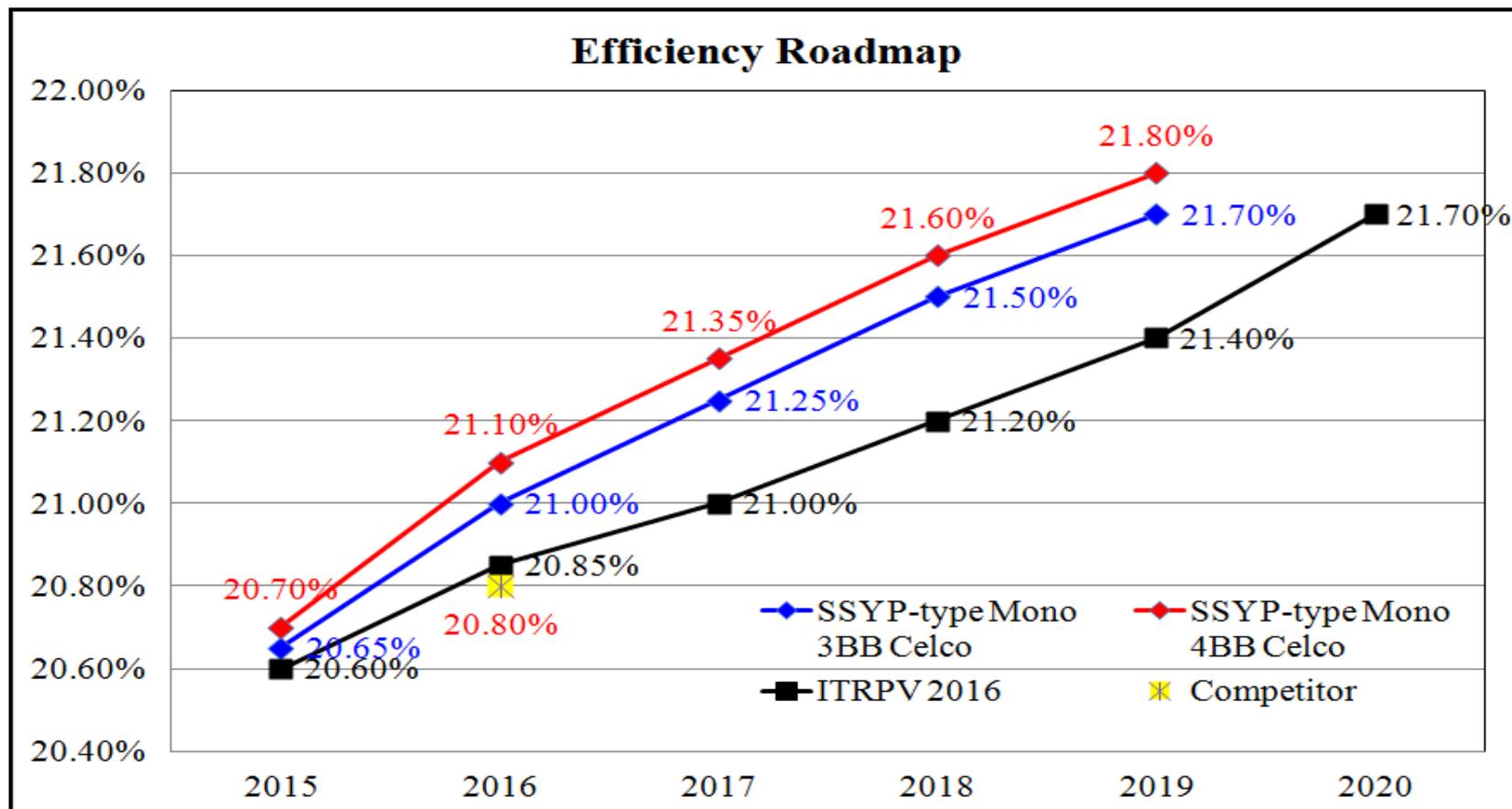


continued to improve ↗

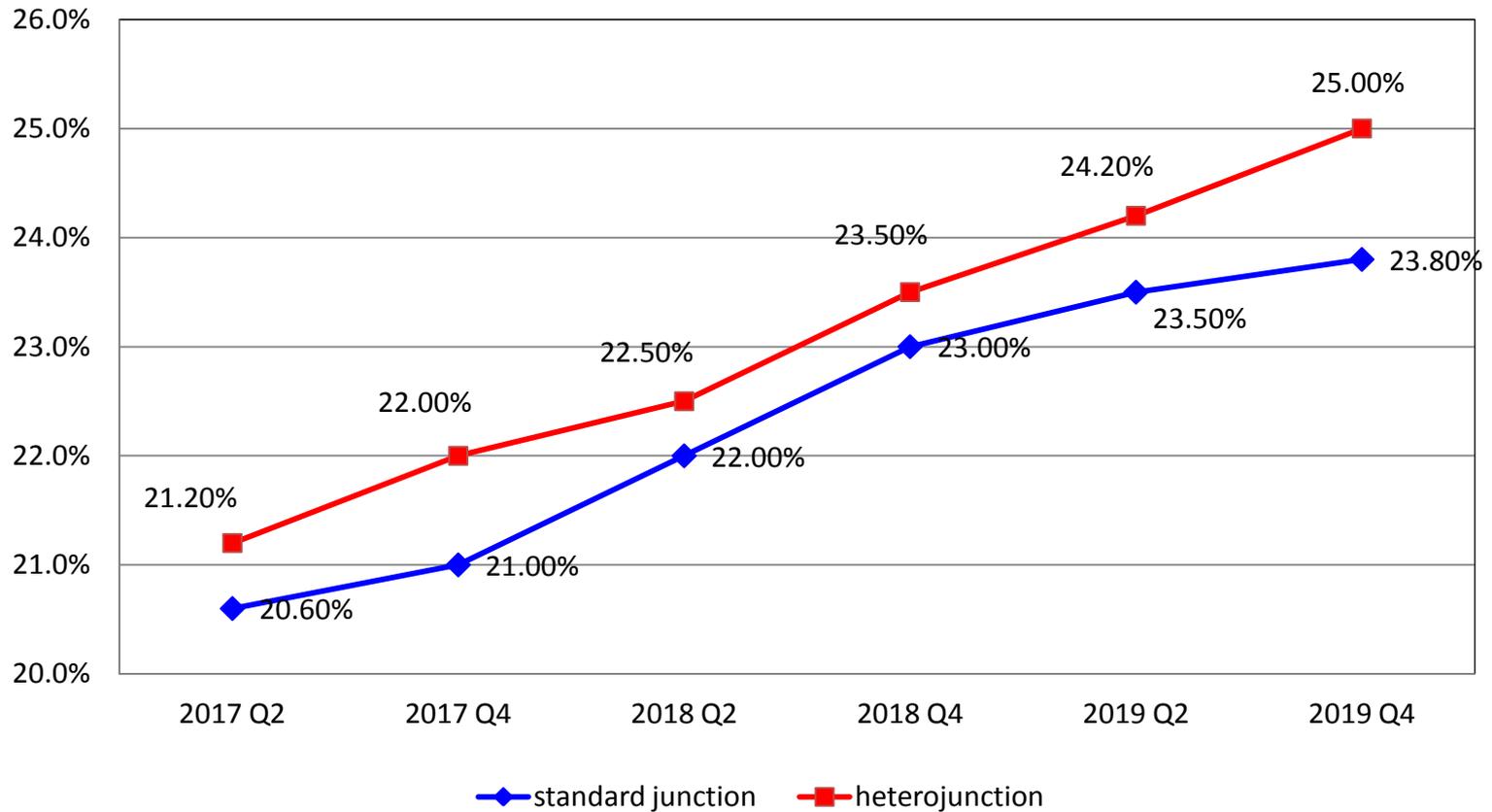
SAS Cells Performance



- SAS's cell efficiency is higher than industry standards



N-type Efficiency Roadmap



Note: this schedule is under assumption that works on n-type (including equipment installation) is can start by early 2017.

Presence along the solar value chain



→ SAS dedicate to provide the PV Total Solutions with Competitive LCOE and WACC.
 能源計算器的平準化成本 Levelized cost of electricity (LCOE) 加權平均資本成本 (Weighted Average Cost of Capital, WACC)

China 2017 FiT rates



China 2017 FiT rates

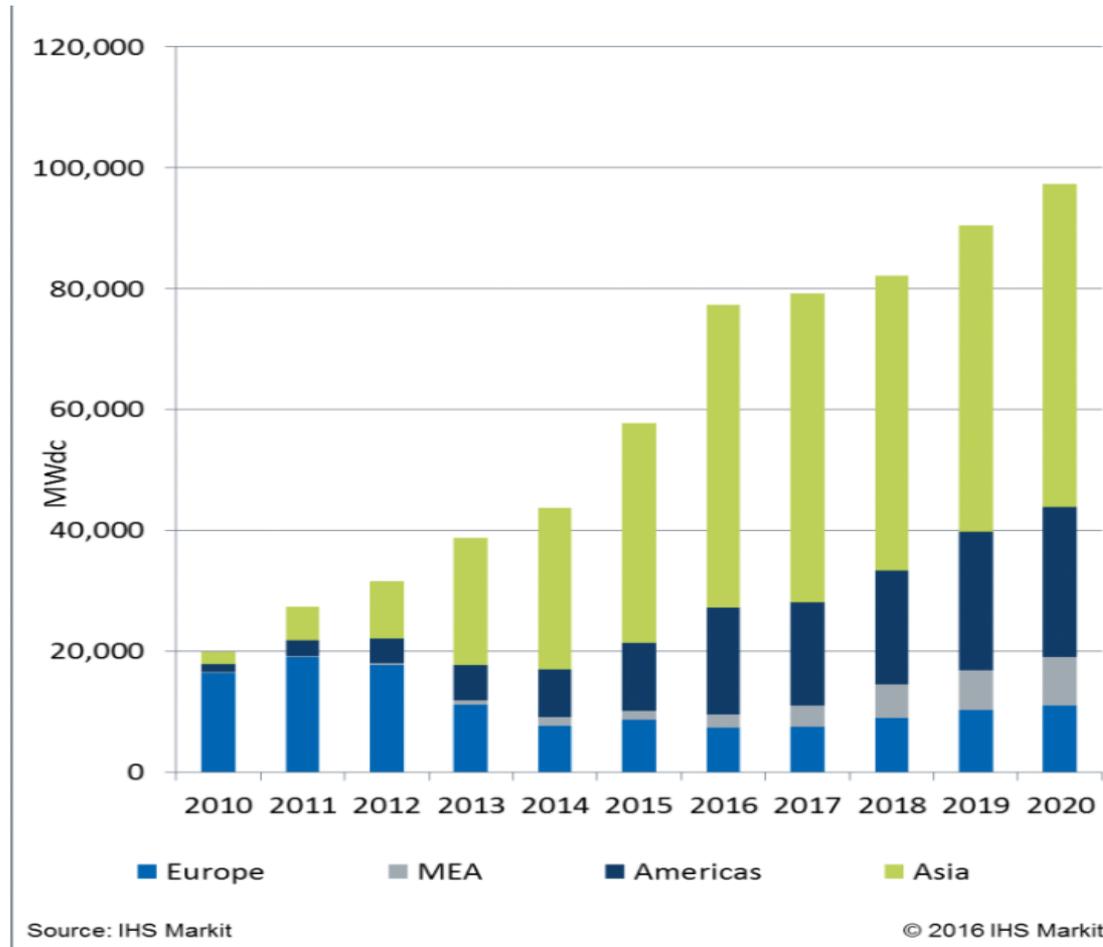
Region	FiT in 2016 (RMB/kWh)	FiT in 2017 (RMB/kWh)	Changes (%)
I	0.8	0.65	-18.75%
II	0.88	0.75	-14.77%
III	0.98	0.85	-13.27%
Distributed PV	0.42	0.42	-

Source: IHS, Price Bureau, National Development and Reform Commission, China

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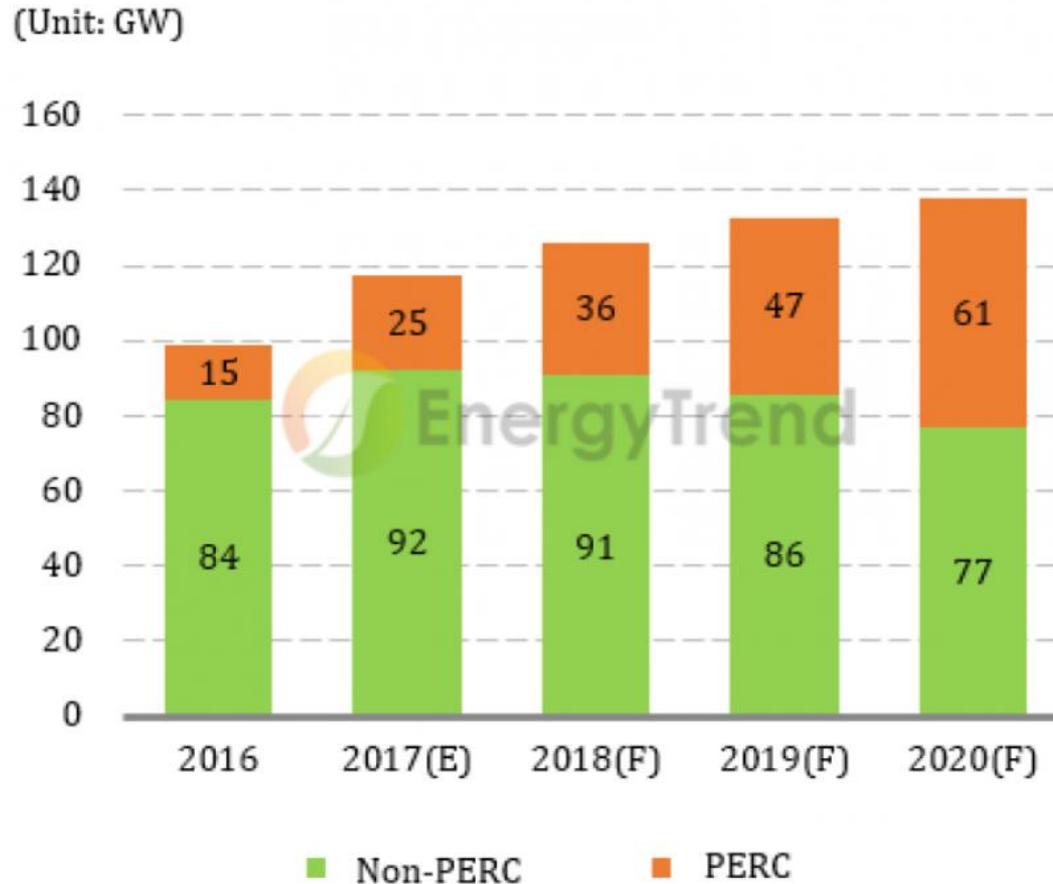
To add 15GW PV installation in 2017 1H

Global PV Installation by Major Region



**2016 indicated the tenth consecutive year of growth
Stronger market recovery in 2019**

Global Production Capacity for PV Cells 2016~2020



Source: EnergyTrend, Jan., 2017

PERC migration increasing from 2016

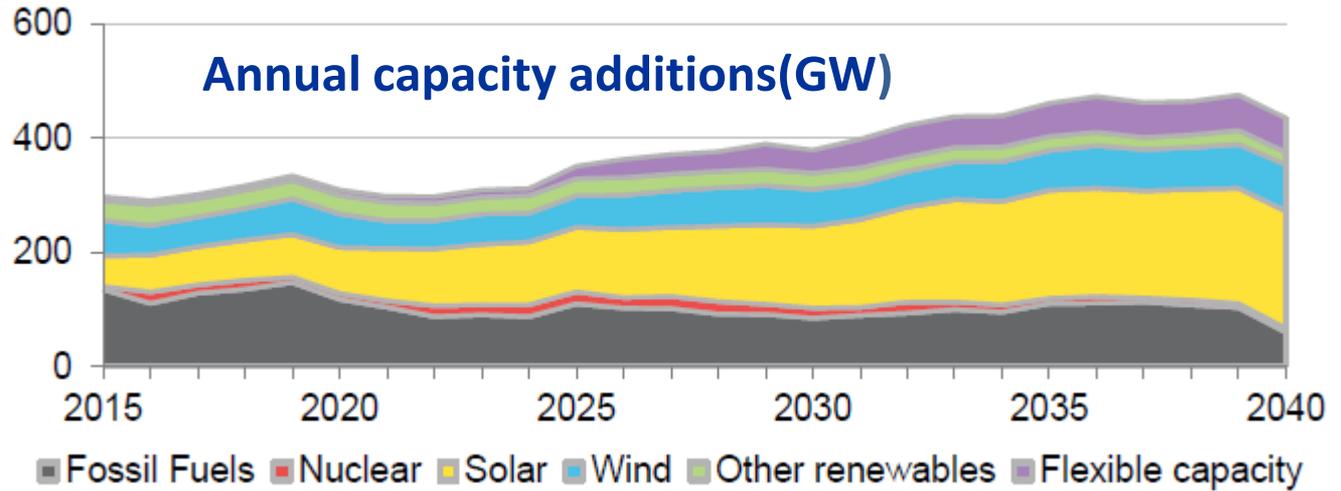
US AD rates review(1st) of Taiwanese Cell Suppliers



Company	Tariff Rate (%)
Sino-american Silicon Products Inc.	3.50
Solartech Energy Corp.	3.50
Motech Industries, Inc.	4.20
AU Optronics Corporation	4.09
EPPV CORP.	4.09
E-TON Solar Tech. Co., Ltd.	4.09
Gintech Energy Corporation	4.09
Inventec Energy Corporation	4.09
Inventech Solar Energy Corporation	4.09
Kyocera Mexicana S.A. de C.V.	4.09
Sunengine Corporation Ltd.	4.09
Sunrise Global Solar Energy	4.09
TSEC Corporation	4.09
Win Win Precision Technology Co., Ltd.	4.09

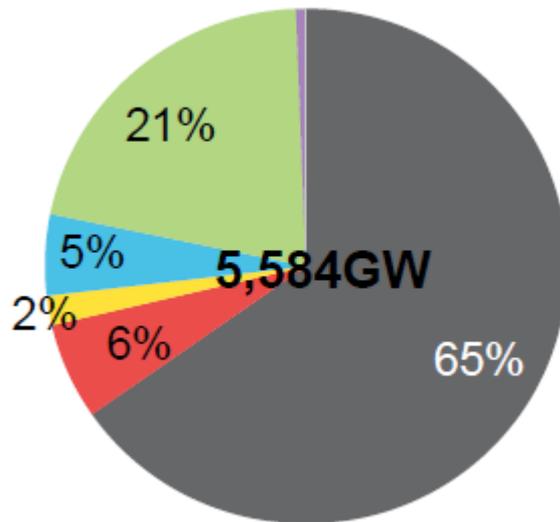
Source: US DoC Energy Trend, Mar 2017

WW Power-Generating Mix Trend

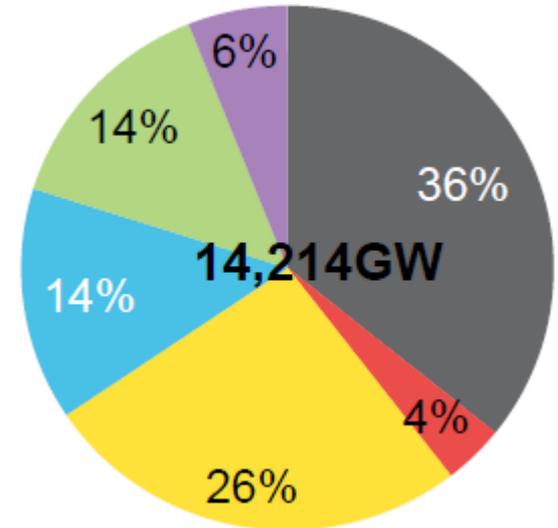


In next 25 years:

- Solar will boom worldwide
- accounting for 35% (3,429GW) of capacity additions
- nearly a third (\$3.7 trillion) of global investment
- split evenly between small- and utility scale
- real solar revolution will be on rooftops, driven by high residential and commercial power price & the availability of residential storage in some countries



2012
(Solar=2%)



2040
(Solar=26%)

Source: Bloomberg New Energy Finance 2015/06

SAS Dividend Policy



<u>Year</u>	<u>EPS</u>	<u>Dividend</u>
2013	TWD 0.57	TWD 1.0
2014	TWD 2.06	TWD 1.8
2015	TWD 0.93	TWD 1.5
2016	TWD (2.77)	TWD 1.5
1Q17	TWD (0.70)	-

