



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

April 2018

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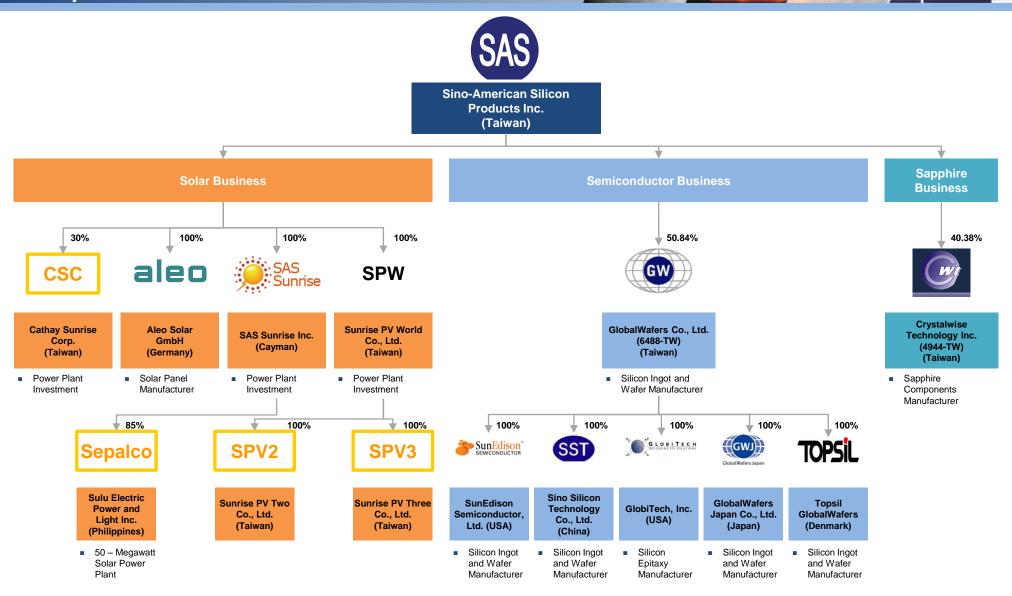
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## **SAS Group Overview**



## **Group Structure**

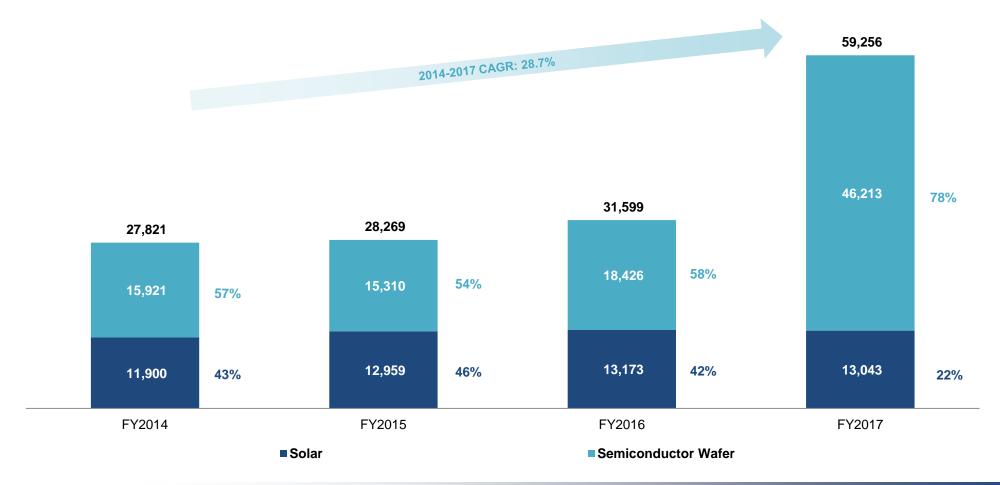




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## **Group Revenue by Business**

(NT\$mm)





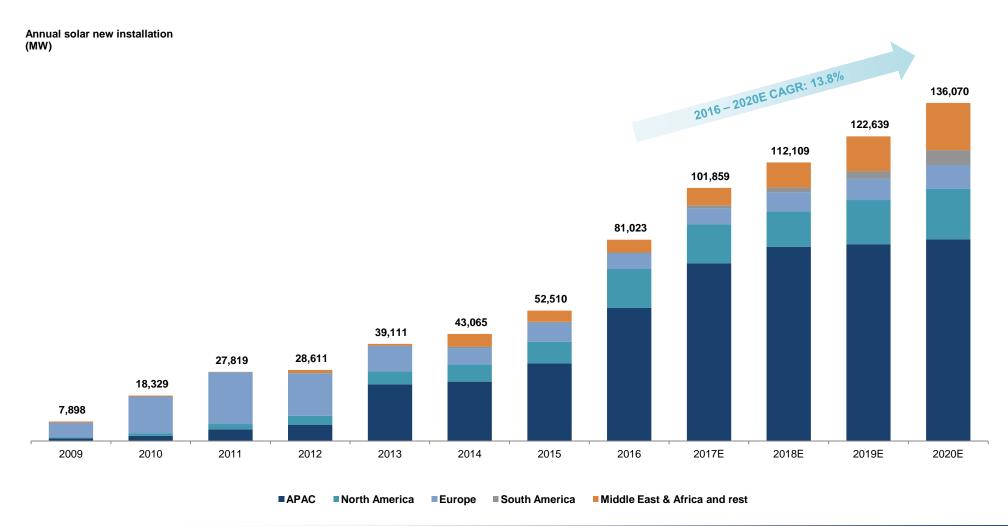


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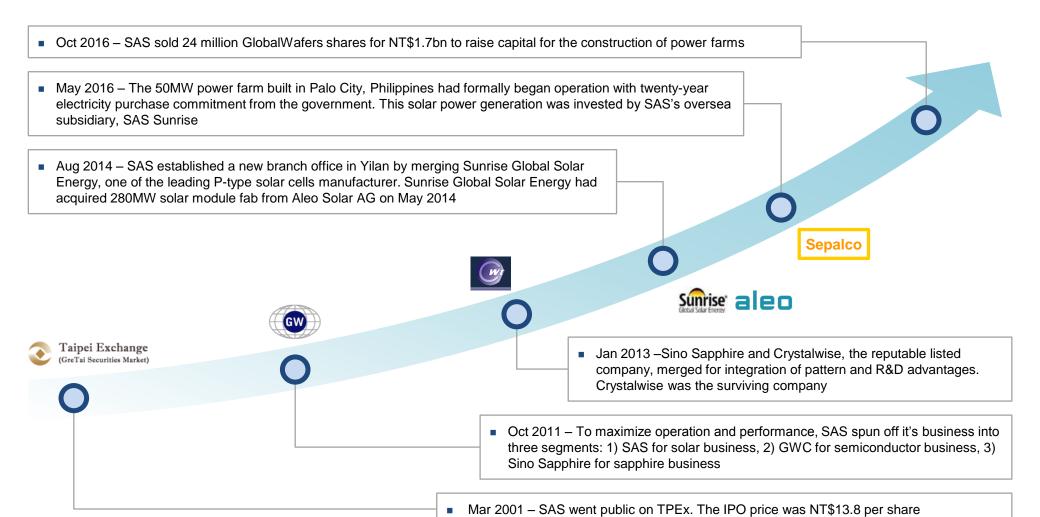


## **Global Solar Demand Forecast**

Global solar demand is expected to register a 13.8% CAGR from 2016 to 2020, mainly driven by incremental demand from India/Middle East/Africa/South America, and a demand recovery in Europe



## **Corporate Milestone**



## **Vertical Integration in Solar Value Chain**

Through track record of successful acquisitions, SAS is fully integrated in the solar value chain dedicating to provide the PV total solutions with competitive LCOE<sup>1</sup> and WACC<sup>2</sup>

#### **Upstream Midstream Downstream** SAS SAS SAS

Silicon

Wafer

Solar Cell

aleo

aleo

**SPW** 

CSC

Ingot

Solar Module

D2D/Sales

**Project** 

**Project** 

Yield Co

Products and **Services** 



- DSS technology
- High efficiency
- High-efficiency multi-wafer
- Robust wafer (R-Wafer)



- High efficiency cell Celco
- Next generation Celco



- Premium segment made in Germany
- >300W output
- High efficiency module



- Direct to Dealer More than 2,100
- customers
  - worldwide



- Feasibility study
- Site selection
- Energy yield prediction
- Permits & Licensing



- Legal & Technical
- Due diligence
- Financial model
- Plant design
- Construction
- Commissioning
- Operations & Maintenance



- management Stable
- performance Long-term
- investment return
- Risk control

#### **Merits of Upstream Integration**

- Secure supply of raw materials during industry boom to materialize profit
- Result in cost saving of raw materials through integrated manufacturing and production line proximity



#### **Merits of Downstream Integration**

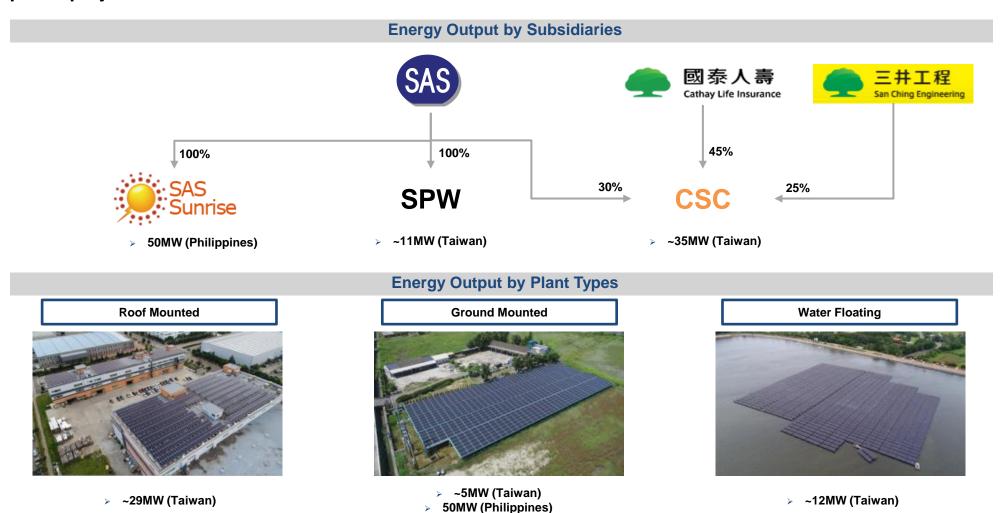
- Acquire premium brand of solar module to enable higher average selling price and orders
- Leverage geographic sales to respond to market movements and increase exposure to high margin and growth sectors
- Reap stable cash flow from solar power system establishment to diversify operational risk

Source: Company filings.

- Levelized cost of electricity.
  - Weighted Average Cost of Capital.

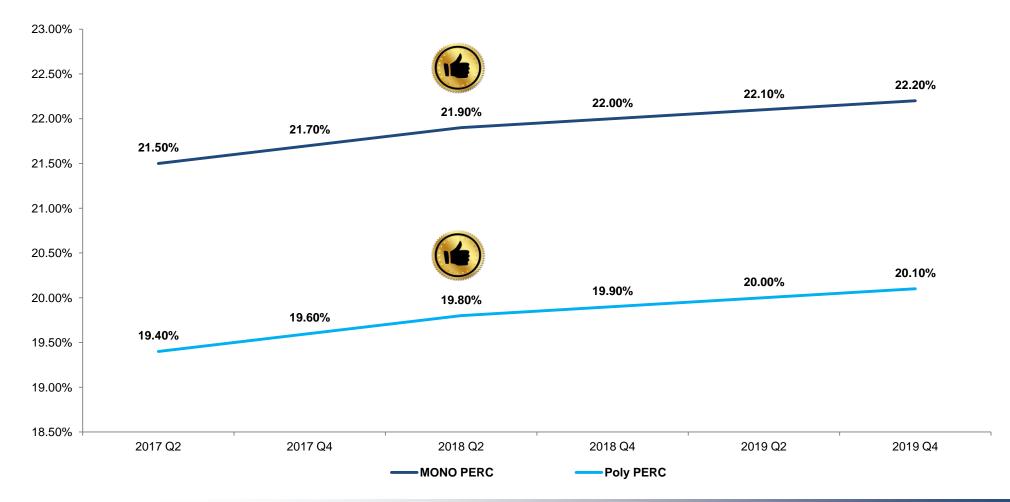
## **PV Power Plants Structure of SAS**

SAS has established ~96MW PV power projects in Taiwan and Philippines and targets to launch 50-100MW PV power projects in 2018



## **Efficiency Roadmap of SAS**

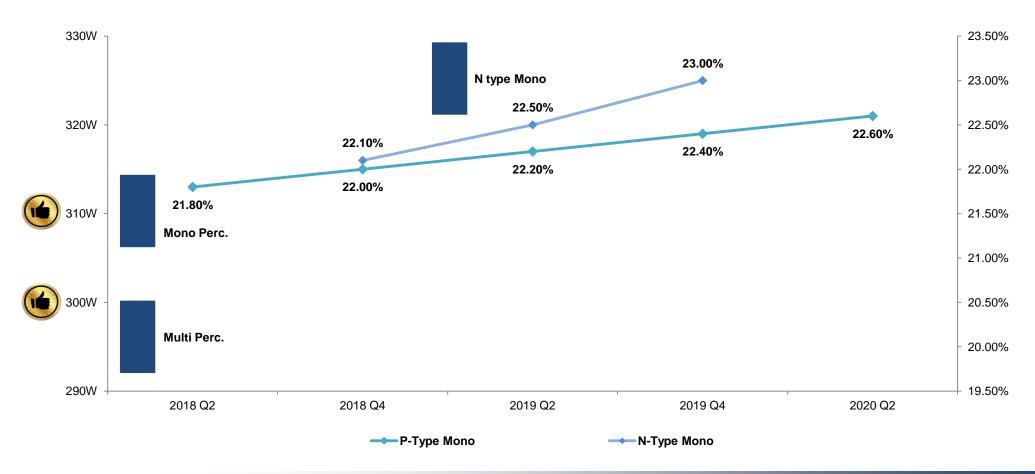
## SAS has leading technology of solar cells performance





## **Projection of Module Power Roadmap of SAS**

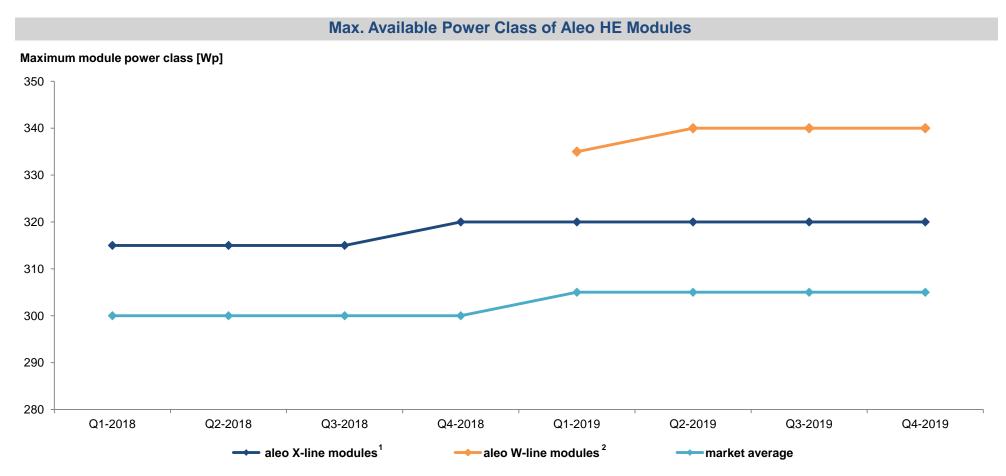
- Targeting Minimum 310W with 60pcs Mono Modules
- Targeting Minimum **300W** with 60pcs Multi Modules
- Record high 320W with SAS latest 5BB Mono PERC cells





## **Power Roadmap of Aleo**

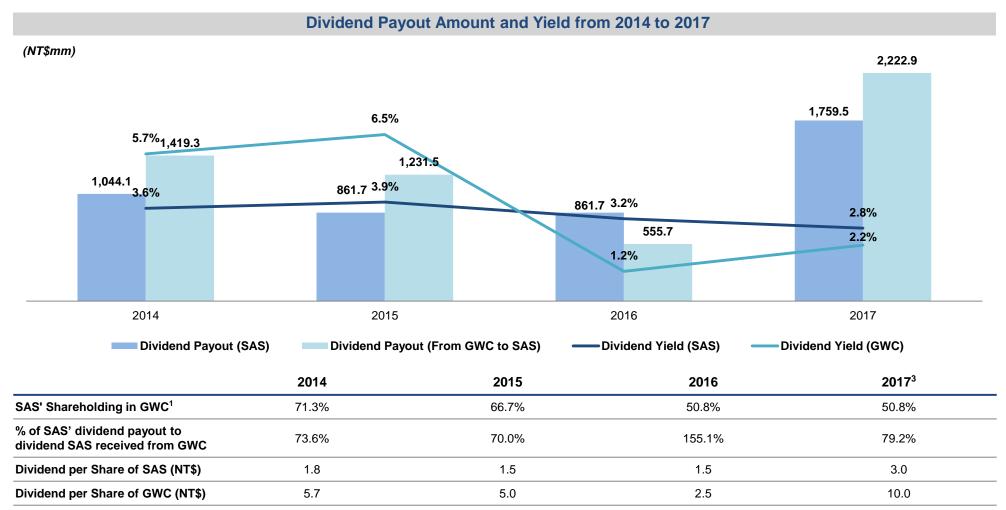
Aleo is constantly innovating its products to provide high efficiency and high quality modules for its customers, aiming for yield maximizing





## Stable Dividend Payout with Lucrative Yield

There is positive correlation between SAS' and GWC's dividend payout since GWC's IPO in 2014 With sufficient cash inflow of GWC's cash dividend and high capital surplus, SAS is committed to provide stable dividend payout to its shareholders with lucrative yield rate



Source: Company filings.

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<sup>1.</sup> As of dividend payout date.

<sup>.</sup> As or dividend payout date.

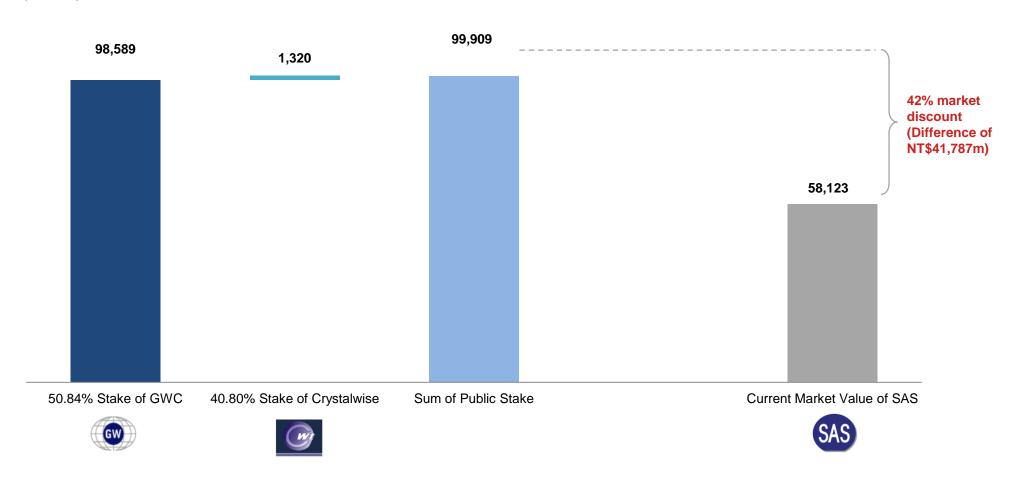
Dividend yield calculated based on the closing price of dividend announcement date.
Dividend is subject to approval of SAS AGM on Jun 26, 2018 and GWC AGM on Jun 25, 2018.

# Undervalued Market Value of SAS versus Its Stake in GWC and Crystalwise



Current market value of SAS trades at 42% discount compared to sum of its 50.84% stake of GWC and 40.80% stake of Crystalwise, which makes SAS a cheaper alternative to invest in GWC

(NT\$mm)







Q&A

