SMA SOLAR TECHNOLOGY AG Warburg Highlights 2016 Pierre-Pascal Urbon, CEO

SMA

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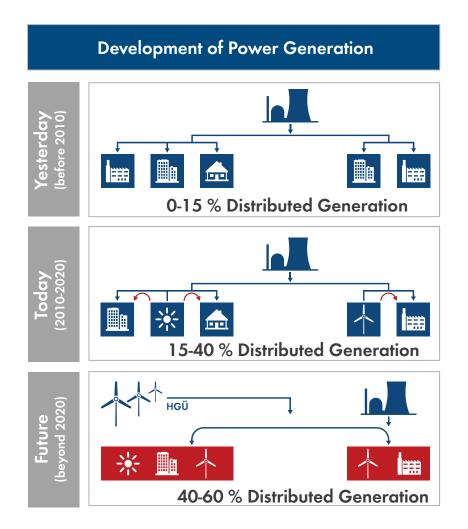
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Fundamental Transition Towards Distributed Power Generation Shakes Up the Energy Sector





Impact

- Electricity produced increasingly decentral, close to the customer. Conventional energy sources like coal and gas will take a back seat
- With many "energy producers" the energy market is far more fragmented than before
- > Peak loads and seasonal peaks are reduced
- Utilities lose market share and are forced to implement a strategic reorientation
- Largely autonomous units produce their electricity demand by themselves and balance over- and undersupply
- Techn. developments will lead to convergence between power generation/thermal energy, generation/demand and generation/storage

> The solar inverter is the core of integrated, sophisticated systems

Supporting Mechanisms for Renewable Energy Will Change With a Higher Share of Distributed Generation



PV DRIVERS TO DATE

Tax Credit (e.g., USA) Net-Metering (e.g., CA, US, IN, IT)

FIT (e.g., DE, FR, NL, UK, JP)

Ren. Portfolio Standard (e.g., AU, CN, JP, KR, US)

Tax Depreciation (e.g., IT)

Direct Financial Support (e.g., HR)

FUTURE SITUATION

Self-consumption; excess energy is traded Direct sale of PV energy/ virtual power plants

Collaboration with utilities for balance energy

> Framework to support distributed power generation and new business models is necessary

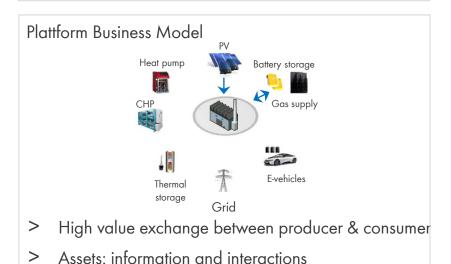
The Solar Industry Will Transform From a Pipeline to a Platform Business — Cyber Security Becomes Important



TRANSFORMATION

Pipeline Business Model

- > Linear series of activities
- > Assets: IP, low cost manufacturing, market access



IMPACT

- Renewable energy becomes the backbone of the energy supply. Modern communication systems are required to allow a fast convergence between supply and demand.
- Solar inverters are the core of integrated, sophisticated systems. Therefore, solar inverters are considered as safety relevant control systems.
- > Surveillance technology could be built in PV system technology. Compromised equipment could cripple a nation's civilian infrastructure.
- > Transparent company structures¹, equipment with high security standards² as well as IT server infrastructure located in countries with high security standards are therefore paramount for a successful transition into a platform business model.

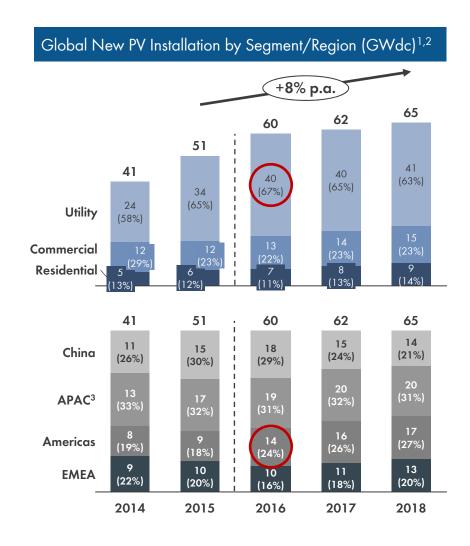
Only equipment free of any cyber-security concern shall be used to build up the new energy system

^{1.} No undisclosed connections to the government

SMA Expects New PV Installations to Reach 60 GW in 2016, Thereof 60% in China, the U.S. and Japan



- > SMA reduced its mid-term outlook due to the expected national target reduction in China. We expect growth of approx. 8% p.a. in global new installations until 2018. The main drivers are among others long-term incentive programs (e.g., ITC in the U.S.) and CO₂ emission targets.
- > Americas and India will become the driving force of new installations. EMEA will regain importance and account for 20% of global new installations in 2018. In contrast, the relevance of China will decrease in future years.
- > There will be no significant change in breakdown of the segments Residential, Commercial and Utility in the next years. The Utility segment will play the major role covering almost two thirds of the market and will be dominated by China, India and the U.S. by 2018.
- > The emerging markets of South East Asia, Latin America and Middle East show a promising potential and account for more than 10% of global demand.



> The expected reduction in the national target in China will accelerate the consolidation process

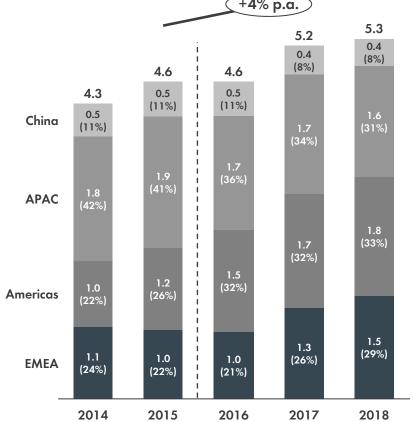
Americas and EMEA Will Become the Value Drivers of the Solar Industry-China Accounts for Less Than 10% of Global Sales



- > SMA estimates an acceleration in price pressure in all regions and segments due to the consolidation process. Global inverter sales are expected to grow by up to 4% p.a. to €5.3 billion until 2018.
- > Revenues in China are expected to decline by 20% to only €400 million. This represents 8% of global sales.
- > Revenues in Japan benefit from strong pipeline of already approved PV projects. However, already implemented FIT-cuts will almost half revenues until 2018. India is expected to see lower price reductions because current price levels are already low. Other markets in APAC are expected to develop positively.
- > The extension of the ITC will support attractive growth rates in the U.S. Other markets in the Americas region (e.g., Brazil, Chile, Mexico) will experience sales growth as well.
- > The European markets are expected to decline, mainly due to unfavorable incentive schemes. However, Africa and Middle East have a chance to overcompensate the sales decline in Europe.
- > Global weighted average levelized cost of electricity from photovoltaics is estimated to be on the level of onshore-wind by 2025³ 1. Prices for revenue calculation according to IHS (EUR/Wac); SMA MI Market Model Q2 2016

+4% p.a.

Global Inverter Revenues by Region (bn EUR)^{1,2}



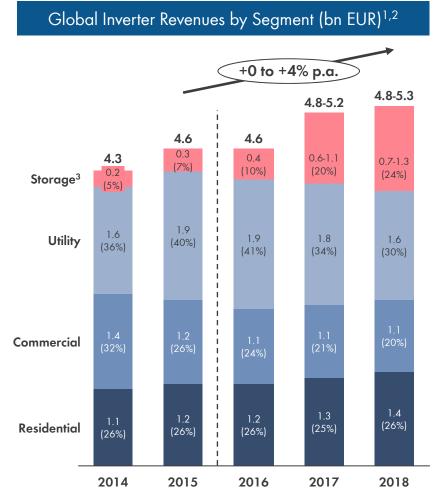
2. Incl. system technology for storage applications (best case scenario)

3. International Renewable Energy Agency: 2025 PV: 0.06 \$; Onshore Wind: 0.05 \$

System Technology for Storage Applications Will Drive Global Inverter Revenues



- The storage market is in a very early development stage. Therefore, revenues from system technology for storage applications are very difficult to estimate. In the best case, this segment accounts for up to 24% of global sales in 2018.
- > Revenues for the utility and commercial segments are impacted by share of countries with ultra-low average selling prices (e.g., China, India).
- > Growth in global residential sales is very much driven by strong U.S. demand.
- Only inverter manufacturers with a complete product portfolio for all solar applications (incl. system technology for storage), a truly global presence as well as a good quality of the balance sheet have a chance to benefit from the market development.
- The ability to transform the business model towards a platform business will become paramount for solar inverter players.



Sales with system technology for storage applications extremely driven by the development of battery costs

^{1.} Prices for revenue calculation according to IHS (EUR/Wac); SMA MI Market Model Q2 2016

^{2.}Incl. demand for replacement inverters

^{3.} Incl. all applications (e.g., hybrid, behind the meter, in the grid, co-located, etc.)

SMA Increased Its Claim to the Growing Market of Energy Management and Services



PHOTOVOLTAIC SOLUTIONS

- Operations & Maintenance
- Energy management
- Service

BUSINESS MODELS

DATA-BASED

PHOTOVOLTAIC SYSTEMS

- Medium-/high-voltage technology
- System technology for storage and hybrid
- Communication products
- Sunny Portal

PHOTOVOLTAIC PRODUCTS

- Solar Inverter
- Smart Module Technology (MLPE)
- Battery inverter
- Our main goal is to easily integrate PV in existing and new energy infrastructure and optimize its use at lowest energy costs

SMA's Complete Product Portfolio Offers Solutions for All Requirements Worldwide





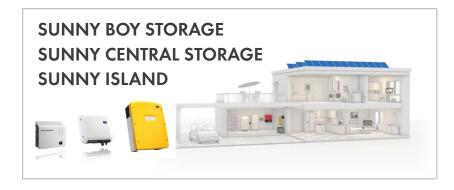




Utility

Commercial

Residential





Storage Service

> SMA's cumulative installed power of nearly 50 GW forms the basis for a successful service and storage business.

Tigo's New Product Architecture Offers the Next Generation of Module-Level Power Electronics



Market

- > The MLPE market is expected to grow by 10% p.a. until 2020 and had global sales of >€700m in 2015
- > The MLPE market is highly concentrated and technology is the main market entry barrier. Current MLPE players serve various channels (channel conflict).
- > The existing MLPE solutions¹ are expensive, because every solar module has to be equipped with power electronics.
- > Since only c. 20% of the solar modules in residential systems² need optimization of any kind, the Flex MLPE¹ technology from SMA/Tigo offers the most cost-effective solution for customers.

Flexible Design String inverter with 3 MPPTs for flexible design... ...plus Tigo for most cost -effective opimization

> Flex MLPE from SMA/Tigo: More energy, less investment

SMA's Products and Flagship Project Received Multiple Awards at the Intersolar 2016













SUNNY BOY STORAGE

- > SMA's solution opens up a wide range of applications: New installation, retrofit, storage without PV plant.
- > Particulary designed for LG high voltage batteries and Tesla Powerwall. However, customers have free choice of battery brand, battery size and battery technology.

SUNNY BOY SMART ENERGY

- > The Sunny Boy Smart Energy is a combination of a modern PV inverter and a battery as the key component of the integrated storage system.
- > Increased self-consumption and easy use of home generated solar power.

FLAGSHIP PROJECT IN THE CARIBBEAN: PV Hybrid System on the Island of St.Eustasius

- > SMA introduced the largest battery storage system in the Caribbean with the latest SMA products:
- > Fuel Save Controller 2.0 L; Sunny Central Storage 1000, 73 Sunny Tripower 25000 for 1.7 MW load.

> SMA's products and system know-how create the basis for a successful platform business

Q1/2016 Financial Summary: SMA has a Balanced Revenue Distribution - This is Unique in the Solar Industry



Key Financials (in € million)

	Q1 2015	Q1 2016	Δ
MW sold	1,710	2,075	+21%
Sales	226	254	+12%
Residential	48	46	-4%
Commercial	39	60	+53%
Utility	114	115	+2%
Service (external)	11	13	+16%
Other Business	14	20	+38%
Gross margin	17%	25%)
EBITDA	13	42	n.m.
EBIT	-5	25	n.m.
Thereof one-offs ¹	-3	0	n.m.
EBIT w/o one-offs	-2	25	n.m.

Key Financials (in € million)

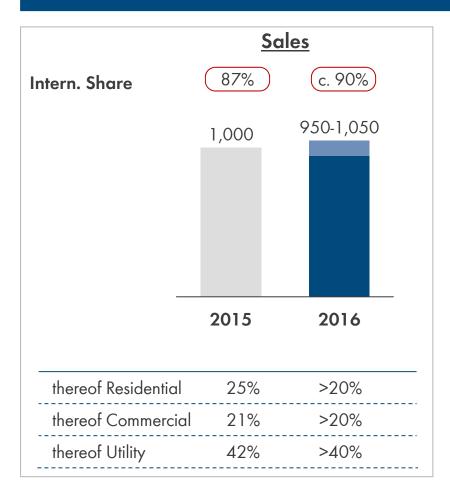
		Q1 2015	Q1 2016	Δ
Free cash flow (Adj.)		-8	38	n.m.
Depreciation		19	1 <i>7</i>	-11%
Сарех		19	7	-62%
Net cash		286 ²	323	+13%
Total assets		1,160 ²	1,1 <i>7</i> 3	+1%
NWC ratio ³		22%²	21%	
		2015		2016
	Q2	Q3	Q4	Q1
Sales	203	270	301	254
Gross margin	18%	23%	26%	25%
EBITDA	8	38	54	42
EBIT	-9	18	30	25
One-offs	2	-13	-10	0

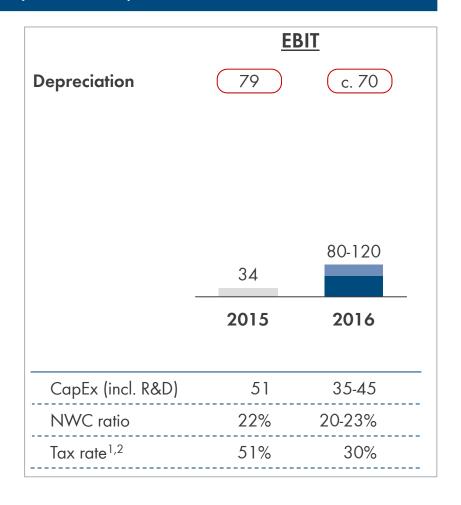
^{1.} See appendix on slide 26 for more details 2. As of 2015/12/31

SMA Management Confirms Guidance 2016 - The Second Half 2016 is Expected to be Stronger



Guidance 2016 (in € million)





^{1.}Loss carryforwards of €220m as of 2015/12/31 in Germany (SMA AG)

^{3.} Thereof Americas 41%, EMEA 52% and APAC 7%; thereof Utility 23%, Commercial 6%, Residential 4%, Other Business 10% and 57 % Service,

Investment Highlights: Attractive Investment Opportunity



- Direct exposure to the global solar market
- SMA has been the #1 for solar inverters for more than 2 decades
- Proven technology and game changing new products
- Flexible business model and best-cost sourcing strategy
- Powerful sales and service infrastructure
- Bankable partner due to high equity ratio, net cash position and credit facility
- Conservative guidance, despite unique positioning
- Stable shareholder structure with Danfoss as strategic anchor investor
- Experienced management team



SOCIAL MEDIA www.SMA.de/Newsroom









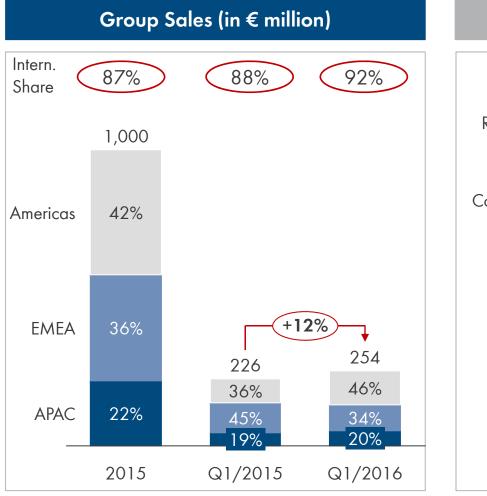


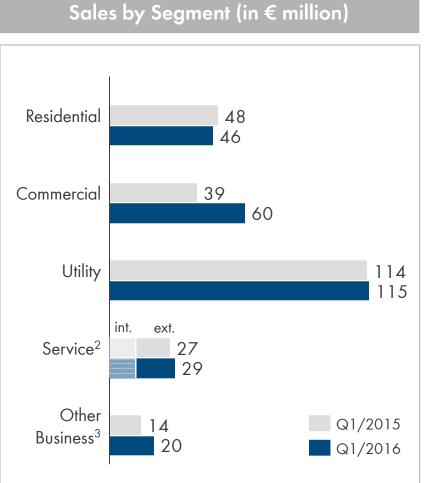
BACK UP

SMA Solar Technology AG

Americas was the Strongest Growth Region¹ while EMEA Slowed Down due to FIT Cuts in the UK



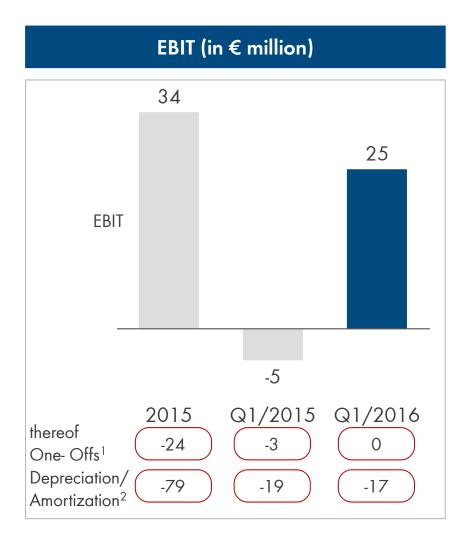


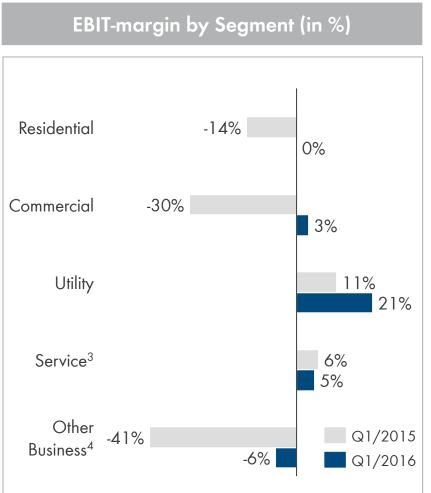


> Commercial was the key growth driver with an increase of more than €20 million Y/Y (c. 75% of total growth)

All of SMA's Core Business Units are Profitable in Q1/2016 - Earlier than Expected





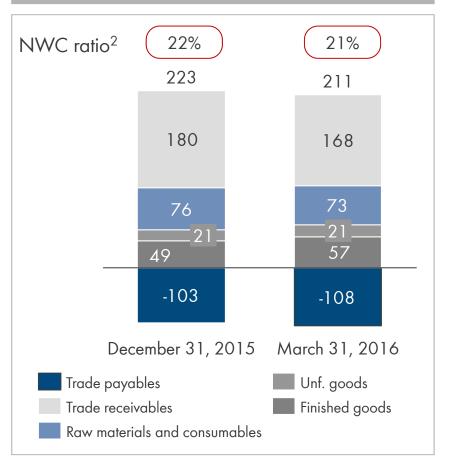


> Margin improvement due to new products and fixed cost reduction

With an Equity Ratio of c. 50% and High Net Cash of €323m, SMA is Rock Solid



Net Working Capital (in € million)¹



Group Balance Sheet (reclassified, €m)

	2016/03/31	Δ
471	453	-4%
326	319	-2%
38	40	5%
325	361	11%
ity 570	585	3%
170	171	1%
103	108	5%
4 39	38	-2%
278	271	-3%
1,160	1,173	-1%
	326 38 325 ity 570 170 103 4 39 278	326 319 38 40 325 361 Sty 570 585 170 171 103 108 4 39 38 278 271

> SMA has proven its bankability by signing a long-term revolving credit facility of €100m with Commerzbank, Deutsche Bank und Hessische Landesbank

^{1.} NWC= inventory+trade receivables-trade payables (no advanced payments included)

^{2.} As of last twelve months sales

^{3.} Not interest-bearing