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Execution according to plan – More to come

Markus Tacke, CEO Wind Power and Renewables Capital Market Day – Energy and Oil & Gas | Houston, June 29, 2016

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Wind Power and Renewables is a crucial pillar of the Siemens energy portfolio – High mutual benefits with other Siemens businesses

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Key figures FY 2015: €6.1bn Orders | €5.7bn Revenues | 2.8% Margin | 12,800 Employees | 5 to 8% Margin target

Wind Power and Renewables Division



Onshore

Geared Platform



m Direct Drive Platform

- ~15,000 turbines or 27GW installed until H1 FY16
- 37 years of experience in onshore wind
- 56% of Revenue H1 FY16

Offshore _____



Geared Platform

~2,100 turbines or 7GW installed until H1 FY16

Direct Drive Platform

- 25 years of experience in offshore wind, clear #1 with 58% of global capacity installed
- 44% of Revenue H1 FY16

Full-fledged energy solutions for

customers

e.g. Egypt deal together with **Power & Gas** and **Energy Management**

Financing solutions

 e.g. participation of Siemens Financial
 Services in Gemini offshore project

Mutual benefits within Siemens AG

Joint R&D efforts

e.g. new offshore grid access solutions with **Energy Management**

• Utilization of wide array of internal suppliers

e.g. gearboxes from **Winergy**, generators from **Process Industries and Drives**

Order backlog H1 FY16: €15bn (largest ever)

Service

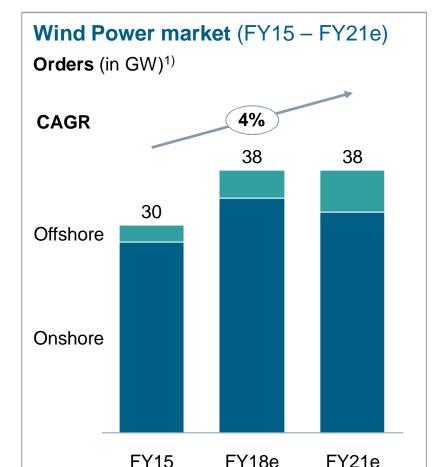
~34GW installed base by H1 FY16 - ~160% growth since FY11

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Renewables gaining momentum worldwide – Policy changes and declining costs making wind power more attractive





Market development

Renewables as affordable mainstream energy

- **COP21** setting ambitious targets towards climate change and decarbonization
- Levelized Cost of Energy (LCoE) of wind decreased by ~25% since 2010²⁾
- Global renewable power investments growing in 2015 to a new record of US\$329bn³, nearly six times its 2004 total
- World's largest nations driving further renewable deployment through policy: e.g. China: 15% non-fossil energy by 2020, USA: PTC/ITC extension, India: Renewable target: 175GW by 2022
- Increasing number of emerging countries starting to deploy renewable policy, e.g. Egypt, Mexico

Stable wind market, selected pockets of growth

- After record year in 2015 (incl. >30GW new installation in China), onshore market will remain stable
- Three main growth pillars: Offshore, emerging markets and service

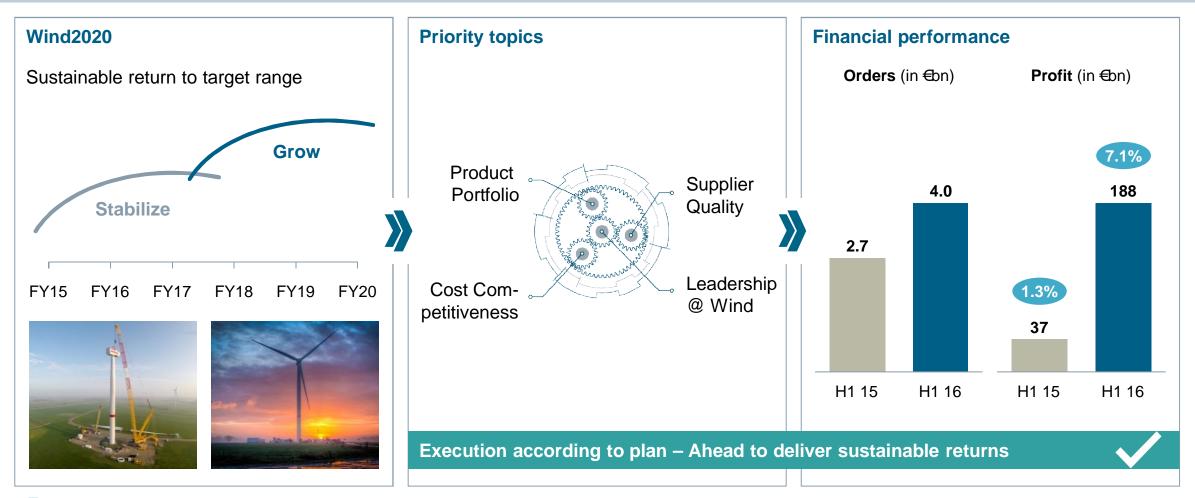
1) Excluding China – served through license partner 2) Bloomberg New Energy Finance – onshore wind LCoE 3) BNEF

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Wind2020 program launched in 2015 – Execution according to plan





x.x% Profit margin as reported

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Significant progress on quality visible in better margins – High focus on next generation products

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Quality measures

- Established effective quality ۲ organization
- Introduction of quality mgmt. practices from automotive industry
- Supplier quality improvement initiatives e.g. through early involvement
- Digitalization of new product . development by introducing Teamcenter



Clear evidence of success

Significant decrease of quality costs in project execution



FY16 target

- Leading Edge Protection (LEP) solution developed successfully
- Continuous improvement of supply chain quality .



Leading Edge protection



Blade Inspection

By effectively dealing with our quality issues we are well equipped to launch our next generation products

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Stringent execution of cost out measures; >5% total cost productivity p.a. – Major footprint changes underway

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Cost measures

- Product cost reduction based on market driven targets
- Optimization of project execution ۰
- Reduction of structural cost and overhead
- Adaptation of global footprint . including shift to low cost locations and cost reduction in logistics



- Stringent target costing approach introduced with early involvement of supplier
- Introduction of 24hrs workflow for I&C¹) of one offshore turbine (>50% OF time reduction²⁾)
- Savings through execution of 1by16
- Capacity of China blade factory being doubled; groundwork for Morocco blade factory started







UK







Germanv

Total Cost Productivity of 5% achieved in FY15 – Target for FY16: >5%

1) Installation and commissioning 2) Condition apply – Achieved through smart logistic concepts and shift of offshore work to land

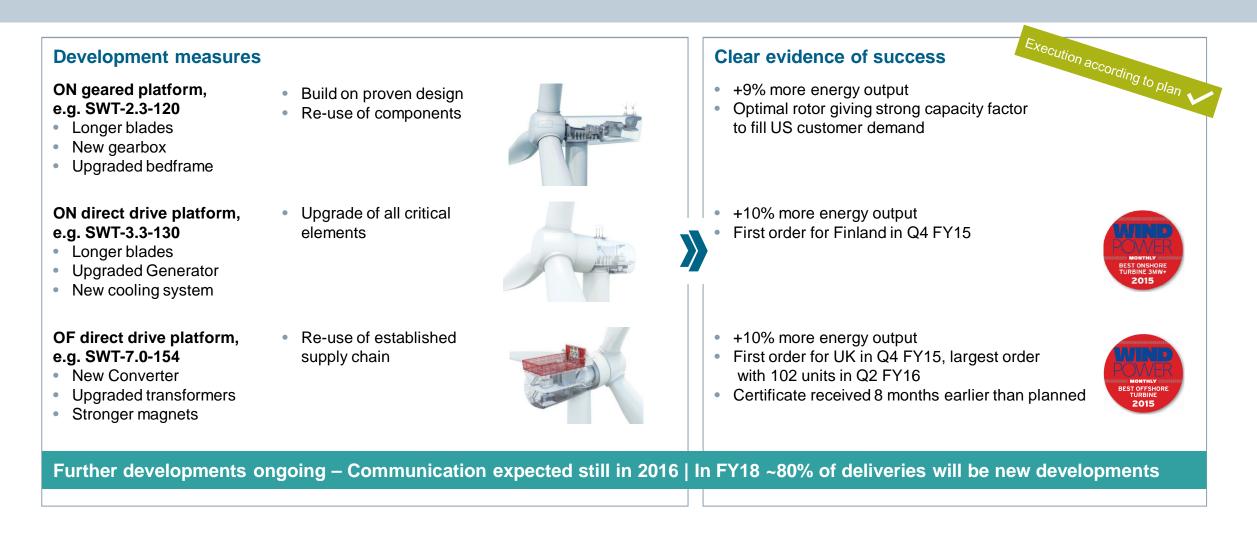
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Complete product portfolio overhaul underway – Main impact starting from FY18

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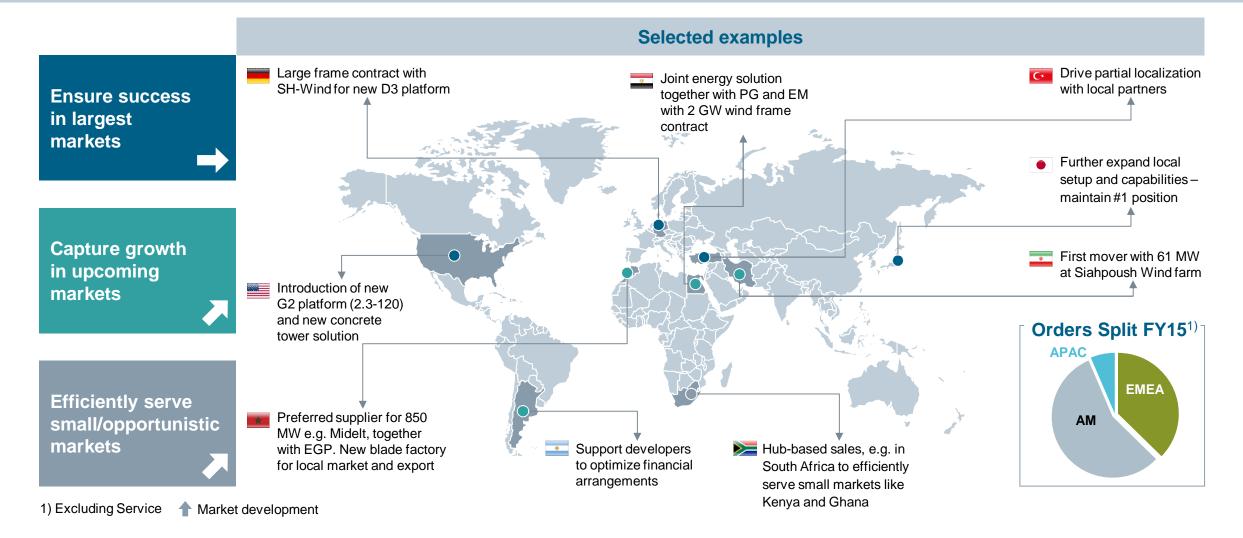


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Onshore to stay successful in traditional strongholds and to tap into new growth markets





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Siemens as Offshore leader drives innovations to further reduce costs



Offshore Leader Imagest OF park ever built (London Array 630 MW)





Innovative turbine: SWT-7.0-154

- Built on proven 6.0-154
- 10% more AEP vs. 6 MW
- Leverage existing supply chain
- Further expansion to 8 MW planned

Innovative diagnostics

- 200 Gigabyte of data per day
- Detecting damage before it occurs
- Remotely fixing the problems

Industrialized jacket foundation ~40% cost reduction compared to traditional concepts



Innovative grid access

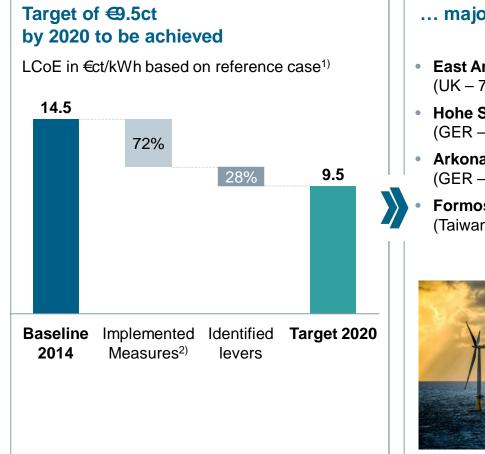
- E.g. new HVAC solution requires no separated platform
- 40% cost reduction

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Offshore to maintain market leadership – Along with partners paving the way towards <€10ct LCoE target

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... major recent wins

- East Anglia One (UK – 714 MW – ScottishPower Renewables)
- Hohe See³⁾ (GER – 407 MW – EnBW)
- Arkona Becken (GER – 360 MW – E.ON)
- Formosa 1 (Taiwan – 8 MW – Formosa)



... and leadership to be sustained

- Unmatched #1 position ~2,100 turbines installed offshore
- Best performing wind farms London Array recorded highest output in Dec 2015 (CF⁴): 79%)
- Best performing turbines SWT-7.0-154 awarded Turbine of the Year by WPM in 2015
- Best sold turbine in China OF SWT 4.0-130 through license agreement (>70% MS)
- Siemens fully supports and leads the way to the offshore industry commitment below **esct** LCoE in 2025

1) Based on the SWT-7.0-154 turbine; Offshore project 1 GW, 50m water depth, 114 km from shore 2) Levers include measures in relation to the WTG, Grid, OPEX and AEP and financial levers 3) Preferred Supplier 4) Capacity factor

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Execution according to plan – More to come



Key takeaways			
	Growing Market	4% CAGR 15-21 ¹⁾	Solid business in growing market
Wind 2020	Execution according to plan	7.1% Profit margin ²⁾	Turnaround program established and well on track
	Growth Path	~80% New developments in FY18 deliveries	Launch of new products supports the profitable growth – in ON and OF
1) Excluding China – served through license partner 2) H1 2016			

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