



Delivering Performance in Service

Randy Zwirn, CEO Power Generation Service
Capital Market Day – Energy and Oil & Gas | Houston, June 29, 2016

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Power Generation Services: A solid business model for stable, highly profitable revenue

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FY 2015: 17,600 employees | €34bn backlog | 3 Business Units | 5 regional headquarters



Power Generation

- 8,200 employees
- Large gas turbines, large steam turbines, generators
- Power plant control systems
- Utilities, indep. power producers



Distributed Generation

- 5,500 employees
- Small and medium gas turbines, small steam turbines, aero-derivatives
- Power, industry and O&G

DRESSER-RAND
A Siemens Business

Industrial steam turbines,
mechanical drives,
compressors



Wind Power

- 3,600 employees
- Onshore and offshore wind turbines
- Utilities and developers

Regional headquarters: Orlando¹⁾, Berlin, Dubai, Shanghai, Singapore



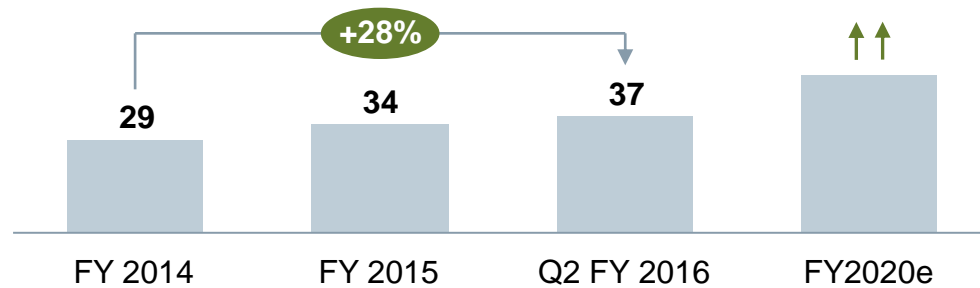
- Fleet & backlog continue to grow
- Globally diversified portfolio mitigates exposure (product line, region)
- Digitalization and innovation create value for the customer

1) Also global headquarters

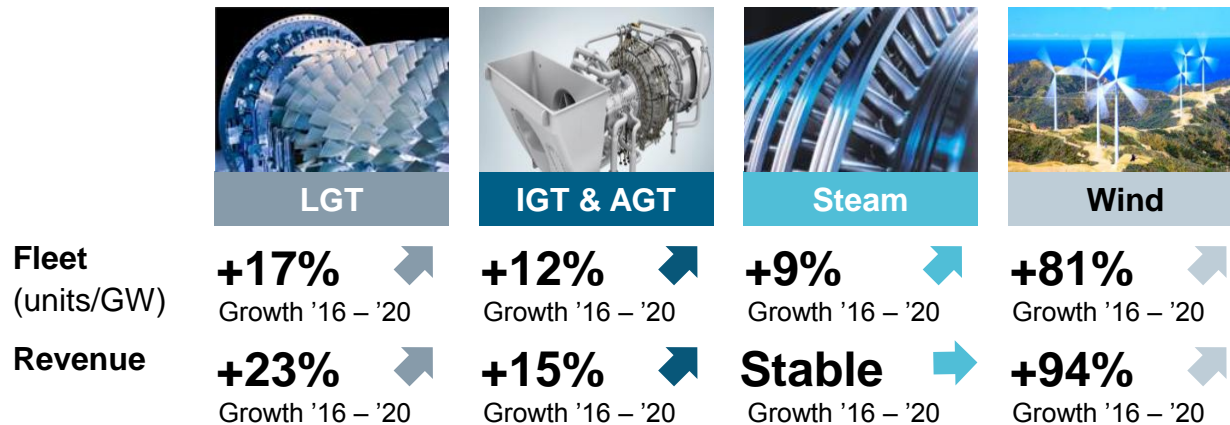
Fleet growth and revenue diversification drive service's continued performance

Service-relevant fleet and backlog growth

Backlog growth (in €bn)



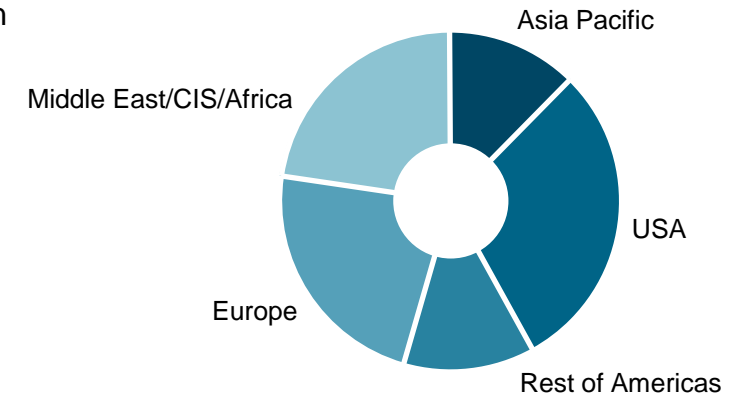
Growth in service-relevant fleet and revenue



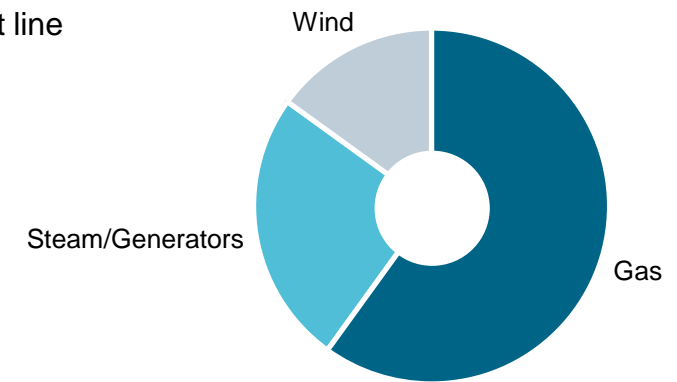
Revenue diversification

FY 2015 revenue split

By region



By product line



Continued expansion across entire gas turbine product line supported by record utilization

Major wins across entire gas turbine portfolio

USA – €47m Macquarie Bayonne LTP renewal for iTrents



USA – €166m Lordstown CC power plant LTP, 2x 8000H



Qatar – €319m CC LTP with Umm Al Houl Power



Bolivia – Ende LTP for SGT-800, pending LTP for 7x CC power plants



Egypt – €1.6bn LTP for 24 H-class gas turbines

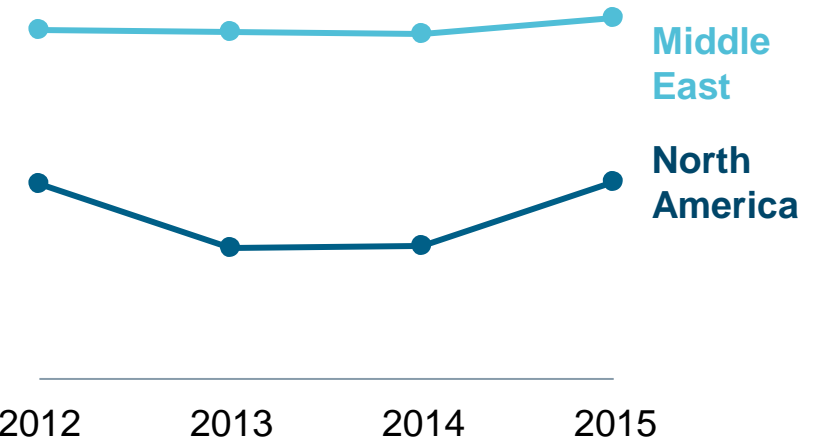


Qatar – €400m LTP for 9x iTrents and D-R compressors w/ Dolphin Energy



Record gas turbine utilization

Combined cycle gas turbine utilization



- **Middle East** gas turbine fleet of >300 units run consistently as **baseload with ~80% utilization**; most efficient turbines in fleet
- **North America** combined cycle gas turbine fleet shows **record dispatch rates**; 65% utilization in 2015, continuing in 2016

CC = combined cycle LTP = long term program

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Productivity and innovation make gas turbine fleet even more valuable in the future

Improving productivity ✓

3D printing/additive manufacturing



Cut lead time by 90%
from 44 to 4 weeks

Rapid prototyping
from >1 year to months or weeks

Increasing efficiency ✓

Advanced GT blade cores



Up to 60% increase in heat transfer
reduce cooling air for increased efficiency
and blade life

Supporting renewable integration ✓

Combined cycle flexibility upgrades



Faster starts and load ramping
to support expanded grid services

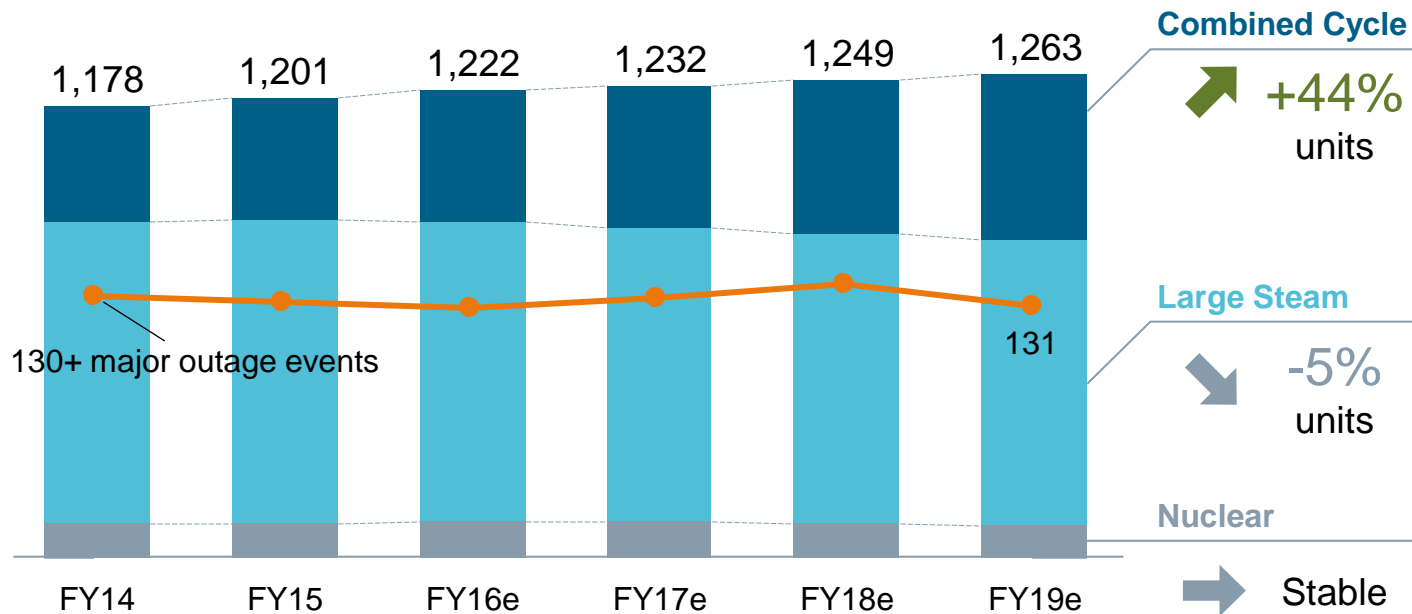
Increased power including peak

Higher availability
and extended plant life

Steam business transitioning to combined cycle with stable fleet presence and outage events

Steam fleet

of operating Siemens Steam Turbines and outage events



● # of steam events
 ■ Combined Cycle
 ■ Large Steam
 ■ Nuclear

Key indicators

- **+72,000 additional industrial steam units** including Dresser Rand
- >€700m in revenue
- Continued opportunities in **steam upgrades** e.g. €120m Turkey Point FPL nuclear upgrade (U.S.)
- Continued **investments into improving life cycle cost** via advanced inspection & digital techniques e.g. blade crack detection

Wind has strong growth opportunities, increasingly profitable

Growth



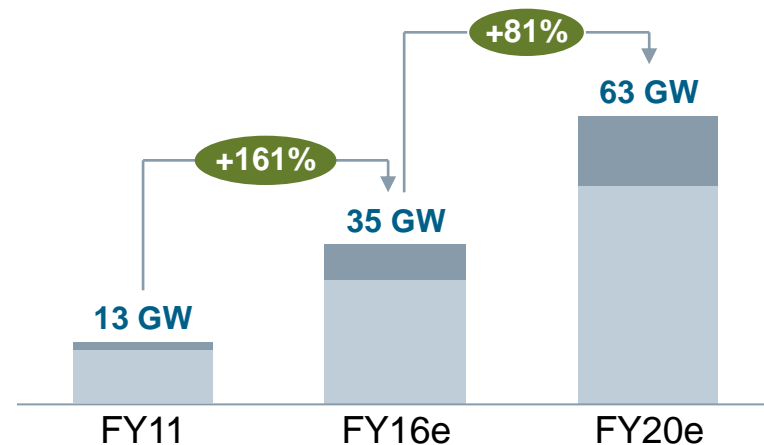
Productivity



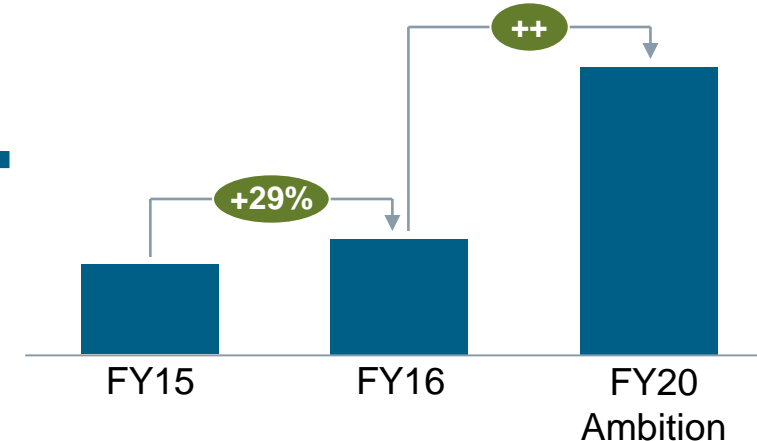
Performance



Service wind fleet growing



Days between service visits



Profitability expansion

- Delivering service on **80% of turbines** by 2020
- Availability of **98% ++**
- **>10,500 turbines** monitored remotely worldwide
- R&D investment **up 130%** from FY14, advancing digital service
- **Market leader** in offshore wind service innovation

Leveraging data for productivity gains:

20-30% reduced maintenance cost of farms >70km off coast, with >2,000 offshore turbines remotely monitored

Offshore, GW
 Onshore, GW
 Average days between service visits

Digitalization and data transform how service is delivered and create value for customers

Powered by Sinalytics

Sinalytics

Siemens' technology platform for digital services, processing 550 gigabytes per day from more than 300,000 devices

Data management

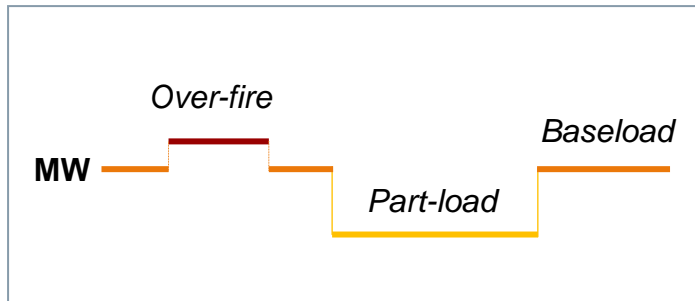


Analytics



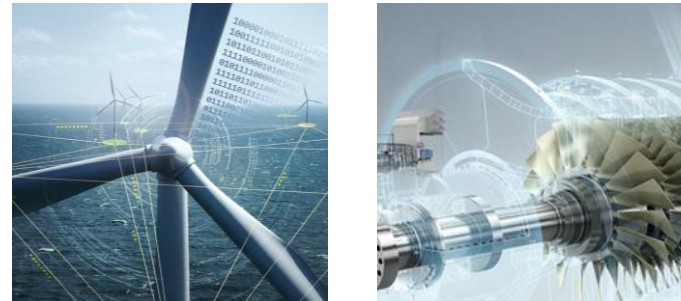
Value

€3bn+ of Flex LTPs in backlog



- Customized scope, interval and performance
- 60+ units under contract

Self-learning turbines



- Software seeks optimal settings
- WP: Increased AEP 3X more impactful than OPEX reduction on LCoE
- GT: 20% reduction in degradation

Paperless outages



- Modular apps for integrated outage management and paperless outages
- Real time availability of data for rapid reaction and reduced process cycle time

AEP = Annualized Energy Production LCoE = Levelized cost of energy LTP = Long-term Program

Demonstrated capabilities create space for selective cross-OEM service engagement

OEM	Technology	Selected examples	Service provider
GE/Alstom	Gas turbines	<ul style="list-style-type: none"> • Full operations and maintenance on GE 7FA gas turbines in US • Frame agreement for 8x GE 7FA gas turbines with Entegra in US 	EthosEnergy
	Steam turbines	<ul style="list-style-type: none"> • Modernization and upgrade for Alstom nuclear steam turbines in for several customers in Belgium, Sweden, and US • Overhaul on GE steam turbine and generator in New Zealand 	SIEMENS EthosEnergy SIEMENS
Ansaldo	Gas turbines	<ul style="list-style-type: none"> • Parts on Ansaldo 1000F gas turbine in Greece • Parts and repair on Ansaldo 2000E gas turbines in South Asia 	SIEMENS
Elliott	Steam turbines	<ul style="list-style-type: none"> • Overhaul and rerate for Elliott steam turbines and compressors in US 	EthosEnergy SIEMENS

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Key takeaways



**Fleet growth
and robust
backlog**

28%

Increase in backlog
FY14 – Q2 FY16

- Fleet and backlog continue to grow organically
- Significant installed base added from acquisitions



**Diversified
base**

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Growth across all
product lines

- Diversified business across regions, products and industries
- Drives sustainable revenue growth and profit expansion



**Digitalization
and
innovation**

€3bn+

Backlog for
flex contracts

- Digitalization already transforming service and creating customer value
- R&D innovations make fleet even more valuable