

Focusing portfolio for growth & shareholder value creation

GE GOING FORWARD

UNLOCKING VALUE







Digital, Additive, and financing expertise of GE Capital

- ✓ Leading franchises solving tough problems with advanced technology
- √ Technology is the DNA of the company
- ✓ Valuable installed base with track record of increasing asset productivity & improving margins

\$ Revenue from 2018 Annual Report





TRANSPORTATION \$3.9B

- Merging with Wabtec to create global leader for rail equipment, services and software
- Positioned to grow ... diversified transportation business with large installed base



HEALTHCARE \$19.8B



BAKER HUGHES \$22.9B

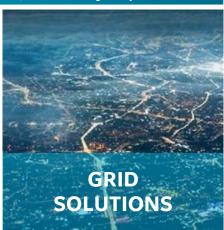
- ✓ Leading healthcare solutions provider
- Enabling precision health with leadership in diagnostics, therapeutics and monitoring
- ✓ Full-stream oil & gas company for land and offshore solutions
- ✓ Supported by digital solutions backbone

GE Renewable Energy





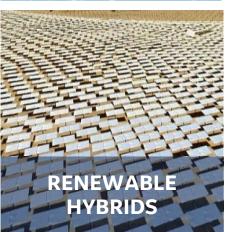












Broadest portfolio in the industry; gives us scale, scope and capability to fulfill our mission



Blade production: LM Wind Power

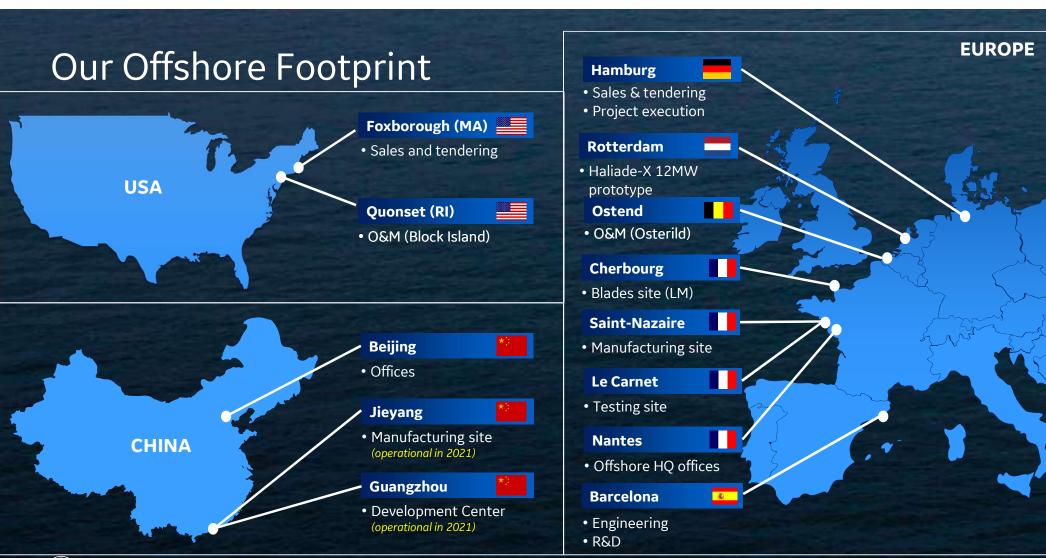
- In operation since 1978Produced: +215,000 blades
- Corresponding to ~ 102 GW capacity
- Saving > 212 MM tons of CO₂/year
- 14,000+ employees
- 15 manufacturing facilities in 8 countries
- Supplier to 30 turbine OEMs



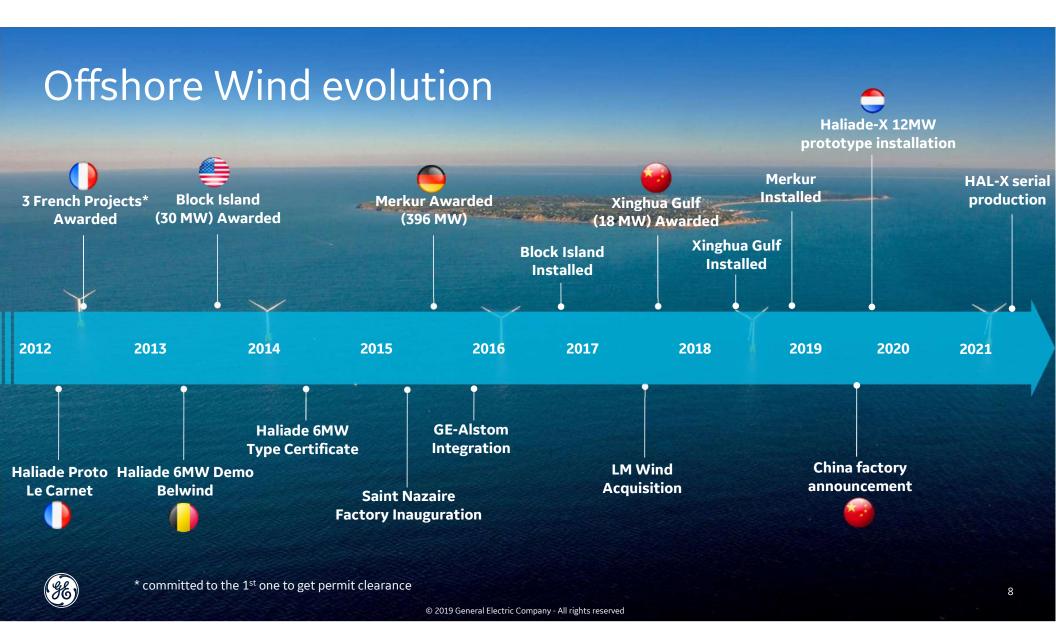
LM WIND

Vertical integration to accelerate LCOE $oldsymbol{\downarrow}$









Our Projects Merkur (396 MW) Osterild (6 MW) 66 x Haliade 150-6MW 1 x Haliade 150-6MW Rotterdam (12 MW)* Block Island (30 MW) 1 x Haliade-X 12MW **USA** 5 x Haliade 150-6MW Osterild (6 MW) 1 x Haliade 150-6MW Le Carnet (6 MW) 1 x Haliade 150-6MW St. Nazaire (480 MW)** 80 x Haliade 150-6MW Xinghua Gulf (18 MW) **CHINA** 3 x Haliade 150-6MW We are the only offshore wind turbine OEM with installations in 3 continents * in process (gg)

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** order backlog



12 MW capacity

220-meter rotor

107-meter long blades

260 meters high

67 GWh gross AEP

63% capacity factor

38,000 m² swept area

Wind Class IEC: IB

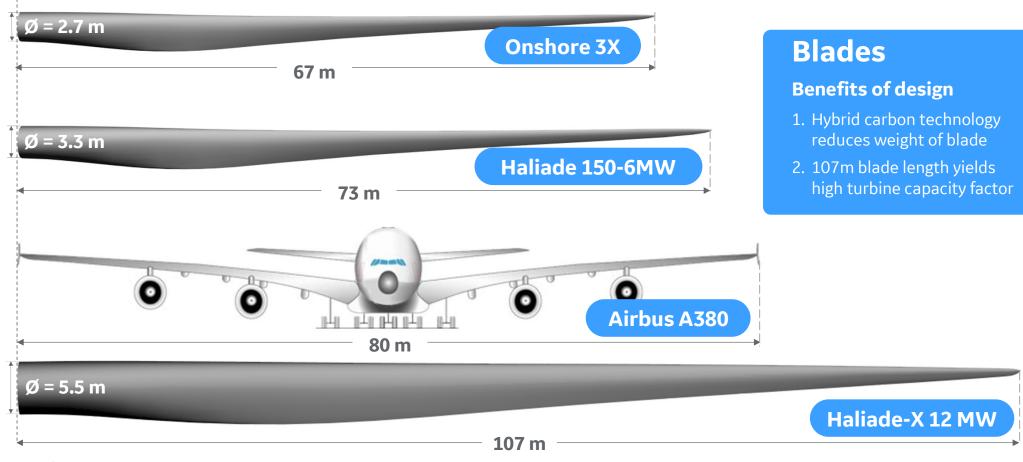
Generates double the energy as previous GE Haliade model

Generates almost **45% more energy** than most
powerful wind turbine
available on the market today

Will generate enough clean power for up to **16,000**European households per turbine, and up to **1 million**European households in a 750 MW configuration windfarm



Haliade-X 12 MW blade comparison



Haliade-X ... the World's first 60 GWh wind turbine

Capacity factor leadership ... +7M\$/pp/100MW value

- Energy efficiency ↑
- Sensitivity to y-o-y wind variation ↓
- Future proof for merchant developments

12MW generator rating ... - 50% units*

- Balance of Plant cost ↓ ... -230k\$/MW*
- Wind farm installation cycle time ↓ ... -20 days/100MW*
- OPEX cost ↓ ... -5 \$/MWh*

The Intelligent windfarm ... time @ sea \downarrow , revenue \uparrow

- Asset performance management ... enhanced remote diagnostics
- Operations optimization with offshore app's
- OPEX optimization ... merchant ready with weather and electricity price forecasting

* Vs state of the art 6MW turbing



64%

62%

60%

54%

52%

50%

Competitor A

10 m/s at 100m, k=2.3

Hub Height = $25 + \emptyset/2$ Wind shear=0.1 / d=1,225

6

Power [MW]

Haliade-X

12

Competitor B

10

Haliade-X 12 MW

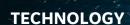
12MW-220

Specs	9.5 m/s	10.0 m/s
AEP* (gross)	~64GWh	~67GWh
Capacity Factor* (gross)	60.3%	63.5%
Wind Class	IEC Class IB	
Design Life	25 years	
DECS Cert. (IEC)	Target 1Q-2019	
Type Cert. (IEC)	Target 2Q-2020	
Frequency	50Hz & 60Hz	
Hub Height	138m	
Shipment	4Q 2020 for 50Hz	
Key Technology	 Direct Drive Train Technology with PMG Uptower electrical system Electrical Output: 33kV or 66 kV Fault Tolerant Design WindSCADA & WindCONTROL Digital Wind Farm with GE's Predix Platform 	



GE's Largest, High Efficiency Offshore Turbine Innovative Blade Design by LM Wind Power

Ideal for High to Medium Wind Speeds



- Carbon based blade design
- Proven direct drive electrical system located in machine head
- design based on leveraging 30,000+ installed base experience (ONS & OFS)
- Flexibility to optimize performance and loads for site conditions



*5% TI, k factor 2.3, 0.1 wind shear, 1.225kg/m³ air density

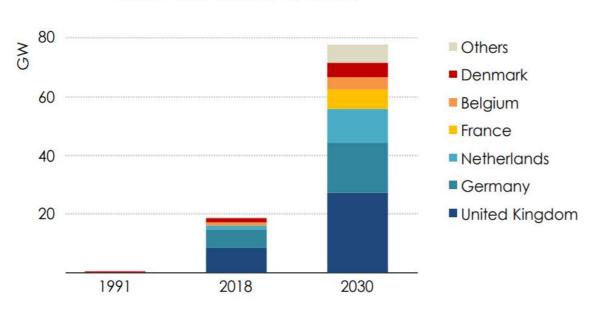
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Worldwide installed base

Overall, there are now 18,814MW of installed offshore wind capacity in 17 markets around the world (2017).

- 84% (15,780) MW Europe
- UK 36%
- Germany 28.5%.
- China 15%.
- Denmark 6.8%,
- Netherlands 5.9%,
- Belgium 4.7%
- Sweden 1.1%.
- Vietnam, Finland, Japan, South Korea, US, Ireland, Taiwan, Spain, Norway and France

Offshore wind capacity by country



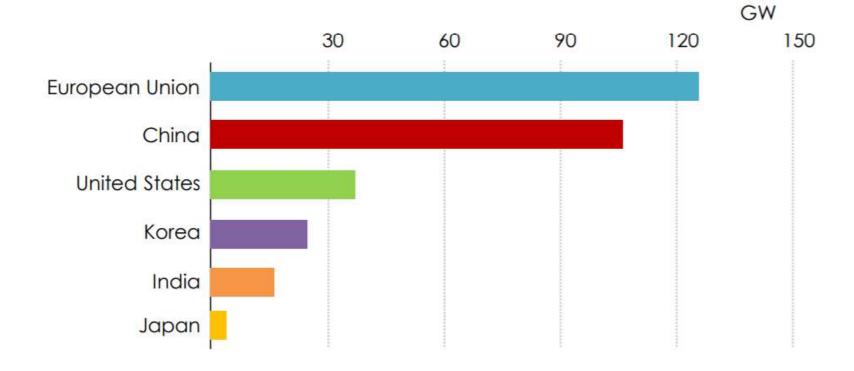
Predicted - 10GW/year going forward - resilient market

Source IEA



Future predicted installed base

2040





Offshore wind installed capacities (GW)





United States

- Current U.S. offshore wind pipeline: 29 GW
 - 30 MW of installed capacity
 - 6,398 MW of capacity with site control and offtake awarded
 - 19,151 MW of potential capacity where developers have exclusive site control over a defined lease area
 - 8-10 GW of Additional potential capacity in unleased wind energy areas in NY, SC
 - 2,350 MW of potential capacity in unsolicited project applications (Pacific region)
- → State-level policies continue to drive the U.S. market.

State policies

Maryland, Massachusetts, New Jersey, New York, Rhode Island, and others are vital drivers June 2019, the sum of official **state offshore wind targets** increased to:

- 11,468 MW to be operating in 2030 and
- 19,968 MW to be operating by 2035. (New York State mandating 9,000 MW by 2035, & NJ 7,500 MW)
- → With stable policies in place, the Department of Energy found the U.S. could develop a total of 86 GW of offshore wind projects by 2050







Energy price

Offshore

- Benchmark prices \$78/MWh for the second half of 2019, driven by cheaper equipment costs
- The lowest U.S. offshore wind contract price ... Vineyard Wind's \$64/MWh
 Massachusetts deal, August 2018

Onshore

- Wind and solar prices have dropped 6% and 11% since the first half of 2019,
- Globally: \$47/MWh and \$51/MWh (even lower in Alberta, and Saskatchewan)

Battery storage prices down 35% in 2019, global average of \$186/MWh.



