



# (RE)SOURCE BOOK

“I find out what the world needs, then I proceed to invent it.”

*-Thomas Edison*

VIDEO



PRESENTATION





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Your +  
Journey



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Jérôme Péresse  
President and CEO,  
GE Renewable Energy

Welcome to GE Renewable Energy! With an innovative spirit and an entrepreneurial mindset, we engineer energy products and digital services that create industry-leading value for our customers around the world.

We work to solve one of the world's biggest challenges – to provide world's biggest economies and its most remote communities with the electricity to power modern life and, at the same time, reduce greenhouse gases. Our technology, our work, is pivotal in meeting that challenge. What we do, matters. Our purpose is to unleash limitless energy so that no one should ever have to choose between affordable, reliable, or sustainable energy.

As a newcomer to Renewable Energy, you will hear me talking often about integrity and safety, the foundations on which we earn that trust and respect. I want us all to end each and every day knowing we did business the right way and everyone made it home safely.

Since 2015, when GE's Renewable Energy business was created, we have come a long way in our mission to unleash limitless energy, and helping to bring the world closer to a cleaner energy future. This team has the courage, scale, passion, diversity and resourcefulness to make that happen. I'm glad to have you on the team!



# Chapter I: GE





## Who we are

The leading industrial company. We transform industry by connecting people, data, and machines. Living in perpetual motion, we are sensing, predicting, and responding to make the world work better.

## Why we're here

To continuously make the world work better. We strive to grow despite the volatile, uncertain, complex and ambiguous world we live in, guided by the GE Leadership Behaviors.

## How we work

We work to reduce complexity, increase speed, lower cost... To make the job simpler & more focused on optimizing performance for each of our businesses.

## How we deliver

Financial performance and customer outcomes:

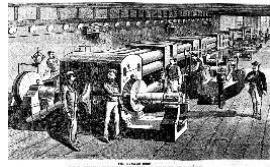
- Customer Success
- Revenue/Growth
- Margins
- Cash





## IT ALL BEGAN WITH A LIGHT BULB

From Thomas Edison's first commercially viable light bulb to the first X-ray machine, GE researchers have redefined what's possible. We were there for the first walk on the moon. GE created the first television broadcast, the first man-made diamond, the first jet engine, and the first digital industrial company.



**1882**  
**CENTRAL POWER STATION**  
The Edison Electric Illuminating Company turns electricity into a commodity, constructing the first central power station in New York City.



**1896**  
**X-RAY MACHINE**  
GE's Elihu Thomson builds electrical equipment for the production of X-rays.



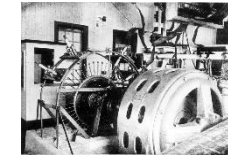
**1900**  
**PREDECESSOR TO GE GLOBAL RESEARCH**  
GE introduces its first laboratory in Schenectady, NY.



**1900**  
**THE GE MONOGRAM IS BORN**  
The GE Monogram makes its official debut, and is registered for the first time.

## 1905-1912 MAKING HISTORY IN THE HOME AND OVER THE AIR WAVES

**1906**  
**THE FIRST VOICE RADIO BROADCAST**  
The world's first voice radio broadcast is made possible by Ernst Frederick Werner Alexanderson's high-frequency alternator.



**1908**  
**GEARLESS ELECTRIC LOCOMOTIVES**  
GE supplies 30 gearless electric locomotives to the New York Central R.R.

**1909**  
**THE DUCTILE TUNGSTEN FILAMENT**  
Developed by William D. Coolidge, this material is still used in light bulbs today.

**1912**  
**THE VACUUM TUBE**  
Improvements in vacuum tube design help make possible modern electronics and radio broadcasting.

## 1878-1904 GE DELIVERS POWER AND LIGHT, THE FOUNDATION OF MODERN LIFE



**1892**  
**FOUNDATION OF THE GENERAL ELECTRIC COMPANY**  
Edison General Electric and Thomson Houston merge to form The General Electric Company.

## GE IS AN EARLY PIONEER IN ELECTRIC LOCOMOTIVES



**1895**  
**WORLD'S LARGEST ELECTRIC LOCOMOTIVES**  
GE puts electricity to work on a large scale in 96-ton electric locomotives.



**1914**  
**STEINMETZ ELECTRIC CAR**  
Charles Steinmetz develops an electric vehicle able to reach a top speed of 40 miles per hour, powered by 14 six-volt batteries.



**1922**  
**EARLY SMART GRID**  
Edith Clarke invented a simple graphical device that solved equations involving electric current, voltage and impedance in power transmission lines or the first early smart grid.

## 1913-1924 EXPANDING HORIZONS, IN THE AIR AND AROUND THE WORLD



**1920**  
**PORTABLE X-RAY MACHINE**  
GE develops a new X-ray machine suitable for dental and portable use.

**1921**  
**SUPERCHARGER SETS A NEW WORLD ALTITUDE RECORD**  
A new world altitude record of 40,800 ft. is set with a plane equipped with a GE turbosupercharger, which enables engines to operate at high altitudes.

**THE MAGNETRON**  
This new type of vacuum tube is a key element of World War II radar systems.





## 1925-1934 EXPLORING NEW DIRECTIONS AND EXPANDING BUSINESS

### 1927 GE BRINGS TELEVISION INTO THE HOME

The first home television reception takes place in Schenectady, NY with a signal from GE's WGY.



### 1930 CREATING NEW MATERIALS

GE develops moldable plastic, a critical element of mass production, and forms a new Plastics Division.

### ELECTRIC CLOTHES WASHING AT HOME

GE introduced its first electric clothes washers for home use.

### 1932 A NOBEL FIRST: IRVING LANGMUIR

Irving Langmuir becomes the first U.S. industrial scientist to win the Nobel Prize in the field of surface chemistry.



## 1946-1956 IMPROVING LIVES WITH NEW MATERIALS AND PROCESSES

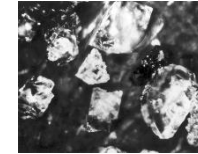


### 1949 THE J 47

GE introduces what will become the world's most-produced jet engine in history, the J 47.

### 1950 MAINFRAME COMPUTERS

Arnold Spielberg Jr. designed the GE-225 mainframe computer that allowed researchers to develop the BASIC programming language.



### 1955 MAKING DIAMONDS

GE Research Laboratory announces the invention of the first reproducible process for making industrial-use diamonds.

## 1957-1970 TURNING SCIENCE FICTION INTO SCIENCE FACT

### 1957 NUCLEAR POWER

Continuing to pioneer in the field of energy generation, GE opens the world's first licensed nuclear power plant.

### 1958 FIRST ELECTRIC DRILL RIG MOTOR

### 1959 MILITARY ENGINES USED ON BUSINESS JETS

GE converts the J85 military engine for business jet use.

### FIRST HALOGEN LIGHT

GE invents the first halogen lamp, the industry standard for work lights, film and television.

### 1962 LASER DIODE

The laser diode is invented, which enabled the first demonstration of a semiconductor laser.

### 1963 RANDOM ACCESS COMPUTER DATABASE

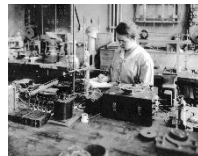
GE's Charles Bachman create the first random access database management system, the Integrated Data Store (IDS).

### 1969 A STEP ON THE MOON

GE supplies a variety of technologies for the first landing on the moon, including engineering support, test facilities, and the silicone for Neil Armstrong's boots.

### 1938 THE FLUORESCENT LAMP

GE invents the first practical low-pressure discharge lamp to provide white light.



### 1939 INVISIBLE GLASS

Katharine B. Blodgett invents non-reflecting, "invisible" glass, which becomes the prototype for coatings used today on virtually all camera lenses and optical devices, including prescription eyeglasses.



### 1941 ENTERING THE JET AGE

GE builds the first U.S. jet engine, the I-A, which is used the next year to power America's first successful jet aircraft for military use, the Bell XP-59 Airacomet.



### 1971 POWERING AIR FORCE ONE

GE moves into the civil industry for high bypass turbofan engines, making the CF6 the most popular engine family for wide-body aircraft, including Air Force One.

### CARRY COOL

GE introduces the first portable room air-conditioner.

## 1971-1985 CONTINUING TO INNOVATE AS NEEDS GROW MORE COMPLEX

### 1983 MRI

GE scientists develop the Signa Magnetic Resonance Imaging System, which produces images of "soft" tissues difficult to image by X-ray methods.





## 1986-2000 LEADING THE WAY AROUND THE WORLD AND BEYOND

**1986**  
**LIGHTING THE STATUE OF LIBERTY**  
GE provides the products and funding to relight this national treasure.



**1992**  
**THE MARS OBSERVER**  
GE builds the Mars Observer for NASA, which will study Martian geology and climate while mapping the planet's surface.

**1998**  
**LIGHTSPEED™ CT SCANNER**  
This scanner is the first to capture multiple images simultaneously and is six times faster than traditional single-slice scanners.



**1999**  
**GE90-115B COMMERCIAL JET ENGINE**  
With more than 115,000 lbs. of thrust, the GE90-115B becomes the world's most powerful commercial jet engine.

## 2007-2010 FINDING NEW WAYS TO SOLVE GLOBAL CHALLENGES



**2007**  
**WORLD'S FIRST 24-CYLINDER GAS ENGINE**  
The J624 Jenbacher high-speed gas engine technology produces more energy more efficiently, providing cleaner on-site power generation.

**2009**  
**ZEEWEED™ 1500**  
GE introduces the ZeeWeed™ 1500 pressurized ultrafiltration membrane, producing superior water quality at a cost comparable to conventional filtration technology.



**2009**  
**VSCAN**  
Vscan, a handheld, pocket-sized ultrasound technology, helps doctors deliver expanded care to more people, including in rural regions.



**2010**  
**ENERGY SMART® LED**  
The Energy Smart® LED bulb, engineered to replace incandescent bulbs, requires 77% less energy and can last for more than 22 years.

**THE WATT STATION**  
The WattStation charges electric vehicles at home or on the road, with an upgradeable design that allows customers to stay current with the latest technology.



## 2017 GE COMPLETES LM WIND POWER ACQUISITION

GE integrates LM WIND POWER a leading independent supplier of rotor blades to the wind industry.

## 2001-2006 INCREASING THE SPEED OF INNOVATION WITH ECONOMIES OF SCALE

**2002**  
**WIND POWER**  
GE continues its focus on sustainable energy, entering the wind power business.



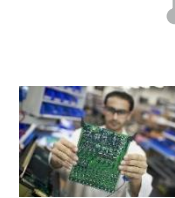
**2003**  
**H SYSTEM™**  
The world's most advanced combined cycle system begins test operations, integrating the gas turbine, steam turbine and heat recovery steam generator into one seamless system.

**2004**  
**ULTRA SCAN™ DUO**  
GE launches the UltraScan™ Duo, the first liquid pipeline inspection tool to utilize Phased Array Ultrasound Technology.

**2005**  
**EVOLUTION LOCOMOTIVE**  
Recognized as the first locomotive to change railroading, the Evolution is launched and is the first to ensure customer compliance with Tier 2 emissions.



**2005**  
**A LEAP IN ENGINE INNOVATION**  
LEAP56 (Leading Edge Aviation Propulsion) begins in June 2005.



**2011**  
**GE OPENS SOFTWARE CENTER**  
GE opens its global software center of excellence in Silicon Valley to help speed the pace of innovation, collaboration and commercialization of new technologies.

## 2011-2016 BRINGING TOGETHER BRILLIANT MACHINES, ADVANCED ANALYTICS AND PEOPLE AT WORK

**2013**  
**GE CREATES PREDIX™**  
Predix, GE's software platform for the Industrial Internet enables industrial-scale analytics for asset and operations optimization by providing a standard way to connect machines, data and people.

**2013**  
**GRID IQ™**  
GE introduces Grid IQ™ to provide cost savings and productivity improvements to electric utilities through automated meter readings.

## BIGGEST INDUSTRIAL INVESTMENT IN GE HISTORY



**2015**  
**GE ACQUIRES ALSTOM**  
GE's acquisition of Alstom is the biggest industrial investment in GE's history.

## 2018 GE FOCUSES PORTFOLIO FOR GROWTH AND SHAREHOLDER VALUE CREATION

Company to focus on Aviation, Power and Renewable Energy



## Focusing portfolio for growth & shareholder value creation

(2019 revenue)

### Aviation



\$33B

### Renewable Energy



\$15B

### Power



\$19B

### Healthcare



\$20B



### Power

Equipping 90% of transmission utilities worldwide  
~7,700 gas turbines



### Renewable Energy

Installed 400+ GW capacity globally  
~45,000 onshore wind turbines



### Aviation

Powering two-thirds of commercial aircraft departures\*  
~64,400 aircraft engines



### Healthcare

Providing 16,000+ scans every minute  
4 million+ healthcare installations

←---- Digital + Capital + Research + Global Growth + Additive ----→

### GE holds a stake in:



### Baker Hughes, a GE Company

Pursuing an orderly separation from BHGE, the world's first and only fullstream oil & gas company, to maximize value for both companies



### Wabtec

Combined GE Transportation with Wabtec, creating a global leader for rail equipment, services, and software





2019 marked our 127th anniversary as a publicly traded company. With our commitment, we bring innovation into the lives of millions while being awarded for our mindset.



**FORTUNE:**  
World's Most Admired



**INTERBRAND:**  
Best Global Brands



**HUMAN RIGHTS:**  
Best Places to Work



**ETHISPHERE:**  
World's Most Ethical

# Chapter II: GE Renewable Energy





There has never been a more exciting time to work in renewable energy. Nor a more vital one.

GE Renewable Energy's advanced technology **harnesses the earth's most abundant natural resources** delivering green energy to people in the world's biggest economies and most remote communities.

Strength of the wind

Force of water

Heat of the sun



We see the promise of renewable energy everywhere. And we have the curiosity, passion, diversity and focus to realize this promise. Together with our customers, we're proving that no one ever has to choose between, affordable, reliable, accessible or sustainable energy.

The energy transition is challenging, and it will take all of us to get there. We are delivering **change for good** by relentlessly improving the efficiency and effectiveness of our operations, as we fight to lower the cost of renewable energy.

We believe in the strength that different identities, perspectives and backgrounds bring to our mission. Our values are built on equality and inclusiveness. We want every individual to feel they belong and can **make their mark** by delivering energy wherever and however the world needs it.

We are **unleashing limitless energy.**



# UNLEASHING LIMITLESS ENERGY

Together with our **customers**,  
powering the world with **green  
electrons**

We're proving that no one ever has to choose between energy that is ...

## RELIABLE

- Dispatchable
- Grid Integration
- Quality
- Secure
- Great Customer Experience

## AFFORDABLE

- LCOE (absolute & vs thermal)
- Economic Value (for customers, partners, and GE)

## ACCESSIBLE

- Transmission
- Local Expertise & Capability

## SUSTAINABLE

- Wind
- Hydro
- Solar
- Storage
- Hybrids
- Carbon Neutral








“We exist to unleash limitless energy for the world, accelerating the global transition to renewable sources of power. Yet we are not truly fulfilling that mission if our own activities in producing and installing renewable sources *add* CO<sub>2</sub> to the climate.


It is time we walk the talk, and **make our own operations carbon neutral by the end of 2020.**”

- Jérôme Péresse



**Danielle Merfeld**  
CTO & Carbon Neutral Business Champion 



**Lene Mi Ran Kristiansen**  
Carbon Neutral Program Leader 



**1. Accounting**  
for our operational greenhouse gas emissions in each P&L




**2. Reduce Emissions**  
by finding efficiency opportunities within energy, waste, logistics, and mobility






**3. Power with Renewables**  
by securing renewable electricity for our sites – onsite installations, PPAs, Environmental Attribute Certificates



**4. Offset Emissions**  
by investing in carbon credits that fund emission reduction projects worldwide



**5. Campaign, Engage, Lead**  
by sharing what we learn, celebrating employee contributions and showcasing leadership

-  **Read** GE Renewable Energy’s Press Release
-  **Learn more** about what is Carbon Neutrality
-  Your Personal **Carbon Neutral Lifestyle Guide**





**Jérôme Péresse**  
Renewable Energy  
Paris, France



**Heiner Markhoff**  
Grid Solutions  
Paris, France



**John Lavelle**  
Offshore Wind  
Nantes, France



**Pascal Radue**  
Hydro  
Paris, France



**Olivier Fontan**  
LM Wind Power  
Paris, France



**Prakash Chandra**  
Renewable Hybrids  
Singapore



**Anne McEntee**  
Digital Services  
Schenectady, US



**Steve Swift**  
Commercial  
Schenectady, US



**Danielle Merfeld**  
Engineering  
Charlotte, US



**Claus Rose**  
EHS  
Hamburg, DE



**Brian Ray**  
Project Mgmt.  
Office  
Schenectady, US



**David Majors**  
ONW Product  
Development,  
Greenville, US



**Vikas Anand**  
ONW Americas  
Schenectady, US



**Sheri Hickok**  
ONW Asia Pacific  
Singapore



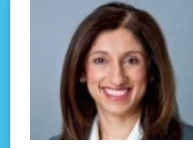
**Peter Wells**  
ONW Europe &  
SSA  
Barcelona, Spain



**Manar Al Moneef**  
ONW MENAT  
Dubai, UAE



**Matteo Tarditi**  
Finance  
Paris, France



**Roshni Haywood**  
HR  
Paris, France



**Angelica Tritzo**  
Digital  
Technology  
Florence, Italy



**Bengt Persson**  
Quality  
Paris, France



**Alyson Clark**  
General Counsel  
Paris, France



**James Healy**  
Communications  
Paris, France



**Josephine Ford**  
Strategy & Business  
Development  
London, UK



**JC Sandberg**  
Government  
Relations  
Washington DC, US



**Nick Polanski**  
Lean  
Texas, US



**Tony Long**  
Sourcing  
Schenectady, US





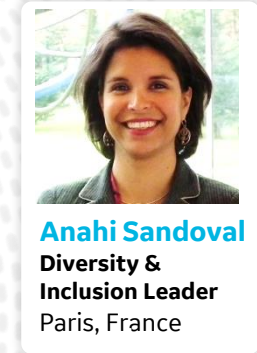


With more than 40,000 employees worldwide and operations in over 80 countries, GE Renewable Energy employees reflect both the local communities we serve and the people with whom we do business. We see Inclusion and Diversity as an essential part of our productivity, creativity, innovation, and competitive advantage.

At GE Renewable Energy, our Inclusion and Diversity program can be summarized in three key points...

We have an Inclusive culture that:

- **Values and celebrates diversities**, learns from them
- **Unlocks** people leaders and employee practices globally and encourages best practice sharing
- **Empowers everyone** to take action




### How we do it

<b>1</b>   Career development <b>processes</b> for diversities	<b>2</b>   <b>Recruitment</b> processes to ensure we select diverse talents	<b>3</b>   Regional and local empowerment to drive programs and actions
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We hire and promote the best talent everywhere in the world. This isn't enough. We are committed to an environment where all employees contribute and the best ideas win every day. At GE Renewable Energy, we have developed seven affinity networks to support and strengthen our all-inclusive workplace.

- 



**Veterans Network**


- 



**African American Forum**


- 



**Asian-Pacific American Forum**


- 



**Hispanic Forum**


- 


**GLBTA Network**


- 

**Women's Network**


- 

**People with Disabilities Network**





Performance Development (PD) is a dynamic, real-time approach integrated with how we work today. It focuses on performance, learning and development by having a dedicated platform to exchange with your manager.

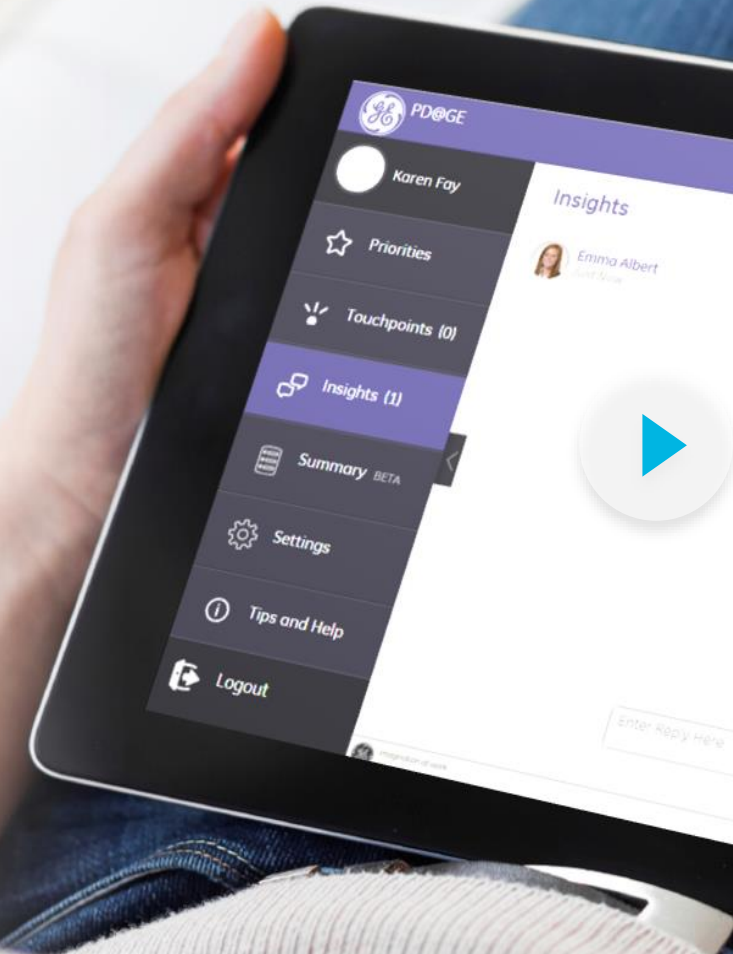


**Insights:** to identify what to continue and consider doing differently to be more impactful.

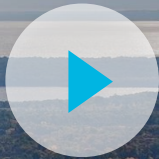
**Summary:** a one-page recap of your Contributions and insights throughout the year.

**Priorities:** Performance Development starts by having a conversation with your manager about your customer-focused Priorities.

**Touchpoints:** ongoing discussions with your manager, that you can come back to at any time.







1

A **\$15bn** business, across more than **80 countries**, with **40,000 employees**

2

The **longest**, most advanced, wind turbine **blade** in the world: the **LM 107.0P**

3

**>20%** of global renewable energy capacity **provided by our turbines**

4

**400 GW** installed worldwide, the largest Renewable Energy IB\*

5

**45,000+** wind turbines worldwide

6

Provide most powerful offshore wind turbine on the market, **Haliade-X 12MW**

7

**25%** of global **hydropower** production made with **GE hydro** equipment

8

Worldwide, **90%** of the power transmission utilities **equipped by GE**

9

**60+** manufacturing/ engineering **sites around the globe**

10

**100+** years of **experience** in renewables





# Chapter III: Industry Trends



There will be **53%** more renewable energy production in 2025 than in 2018, representing **67%** of new installed power generation capacity

Source: GE Internal GPO 19'

- ⊕ RENEWABLES AND GAS LEAD GROWTH
- ⊕ AVERAGE LCoE TRENDS
- ⊕ ELECTRICITY GENERATION BY SOURCE
- ⊕ RENEWABLE ADDITIONS BY TECHNOLOGY





## Installed Capacity evolution 2019-2030, by Region\*\*

**North America**  
**+233 GW ↑ 4%**  
**-36 GW ↓ 0,5%**

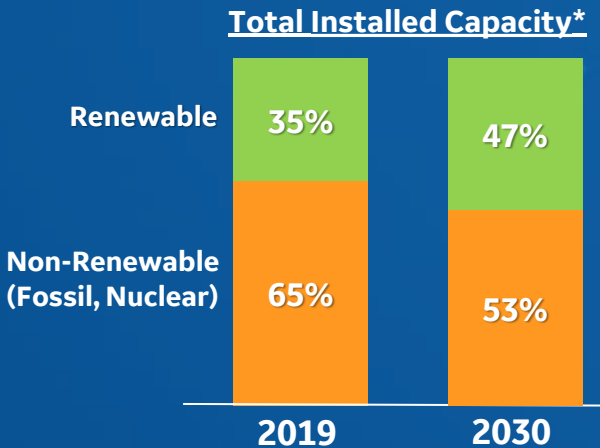
**Europe**  
**+510 GW ↑ 5%**  
**-77 GW ↓ 1%**

**Asia & Pacific**  
**+1404 GW ↑ 7%**  
**+490 GW ↑ 2%**

**Middle East**  
**+50 GW ↑ 11%**  
**+111 GW ↑ 2%**

**Latin America**  
**+111 GW ↑ 3%**  
**+47 GW ↑ 2%**

**Africa**  
**+85 GW ↑ 9%**  
**+49 GW ↑ 2%**



\* GW Installed. Source: IHS Markit Dec.'19

\*\* Installed Capacity variation 2019- 2030, in GW and CAGR%



# Chapter IV: Growth Strategy





At GE Renewable Energy our customers determine our success. Our longstanding commitment to our worldwide partners supports our growth. It is the goal of each of us to take care of these unique relationships, to strengthen existing ones as well as create new ones. Together, let's set the next milestones of Renewable Energy.

Due to our extensive portfolio and our various solutions, our customer base is wide and diversified: from Utilities, which provide complete solutions and operate within the national grid, to Developers with a specialized scope of investing in projects to power the grid, Oil & Gas companies reviewing their strategies towards renewable energy projects, to Corporations shifting their energy consumption to more green electrons.

Together with our customers and partners we are building a better world



The names displayed represent a limited number of customers GE supports.





When you are on a GE site or carry out GE business activities, it is our priority that you return to your family safely at the end of every workday.

Our products and services need to conform to the highest quality standards. We all are committed to maintaining quality standards and product reliability.

**It is why we empower you to stop the line when things are not right.**





Our commercial team is addressing the needs of our global accounts and customers delivering on our commercial principles:

- **Humble & Curious** ... we listen to our customers, bring their voice into the business and drive changes
- **Straight Forward** ... we are effective, pragmatic and open
- **Team Player** ... we are ONE RE Salesforce
- **Adapt & Learn** ... we strive to be the smartest team in the industry
- **Drive & Passion** ... we are ALL IN THE GAME, committed, proud and determined to be the BEST sales force in the industry



**Steve Swift**  
Commercial  
Excellence  
Schenectady, US





Our Onshore Wind Product Development team manages the lifecycle of our product portfolio from conceptualization to reality. We understand the customer values, their needs, available technology and orchestrate the business to make the best in-class products.



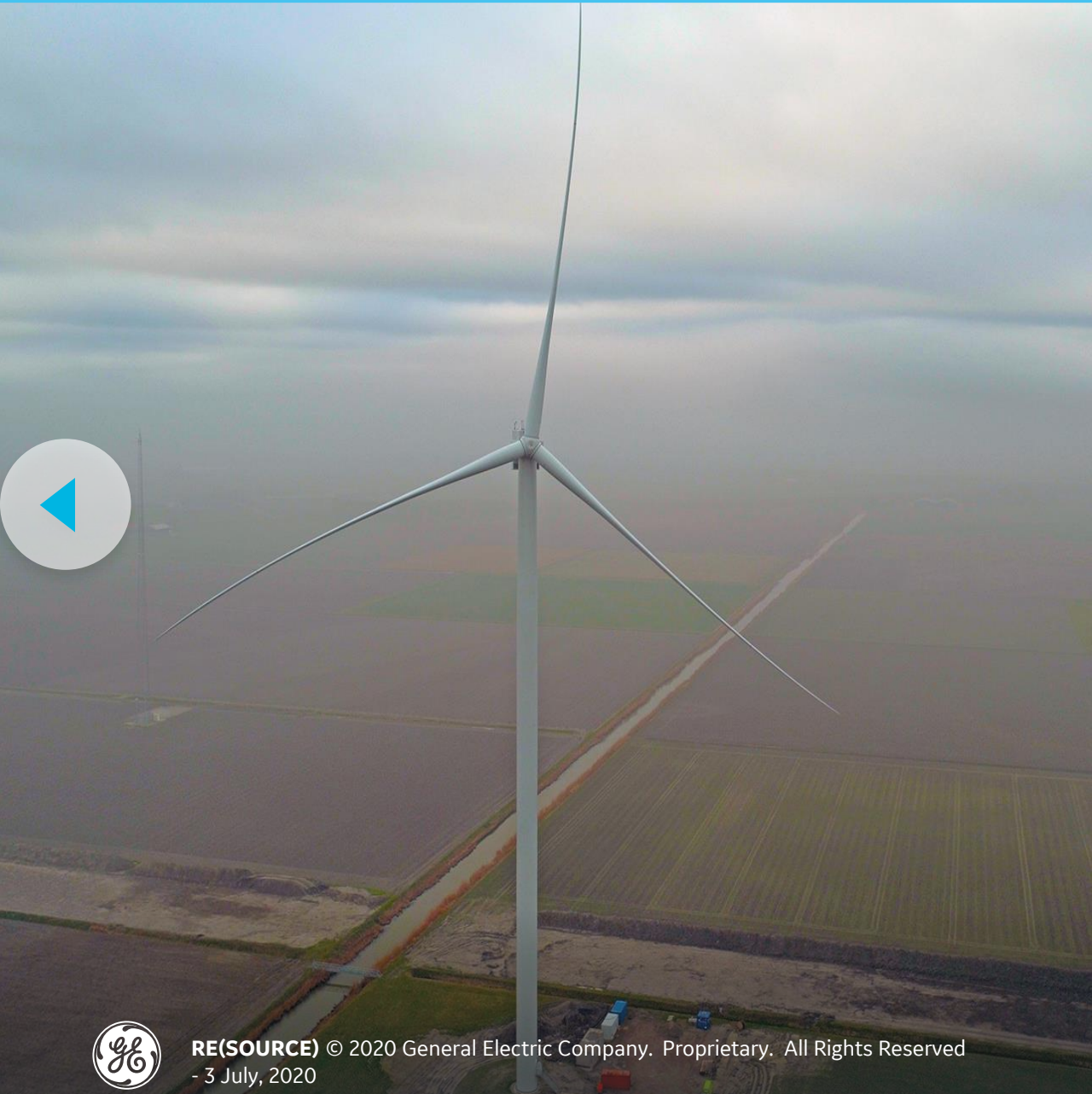
**David Majors**  
Product  
Development ONW  
Greenville, US

## OUR PRIORITIES:

- **Safety** – instill a zero-harm culture
- **NPI Execution** – with quality, at cost, on-time
- **Multi-Generational Product Planning** – driving better performance, lower costs with best in class performance
- **People Development** – driving a culture of excellence as an expectation







**With an innovative spirit and an entrepreneurial mindset, we engineer energy products and digital services that create industry-leading value for our customers around the world.**

### R&D is the lifeblood of our business

We use differentiated technology to win and need to ensure the success of our investments in key products like:

- + Haliade-X:** The most powerful offshore wind turbine.
- + Cypress:** Our largest, most powerful onshore wind turbine featuring a two-piece blade.
- + Hydro Storage:** Enabling the introduction of more renewables into the energy matrix.

### Making the portfolio successful

We have one of the broadest portfolios in the renewable energy industry: Digital Services, Grid Solutions, Hybrids, Hydro, Wind.

To be successful, we have to prove to customers that our combined capabilities and technology means that with GE Renewable Energy one plus one is greater than two.



**Danielle Merfeld**  
Chief Technology Officer  
Charlotte, US



GE Renewable Energy's Project Management Office (RPMO) is a group of industry and project experts who work with the entire organization, from ITO\* to OTR\*\*, to mitigate project risks and ensure better outcomes for our customers and for GE Renewable Energy.

## An Asset to deliver Large and Complex Renewable Energy Projects across the World

Executing larger and more complex project is part of GE Renewable Energy's present and future. As such, the RPMO is a key asset to provide risk management, governance and critical expertise and resources to improve execution.



**Brian Ray**  
RPMO Leader  
Schenectady, NY

## Focusing on Four Main Enablers

We focus on four main enablers to mitigate project risks:

Enterprise Risk  
Management

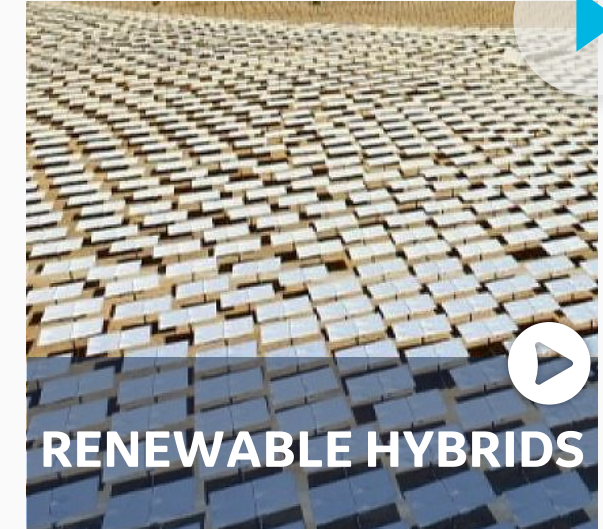
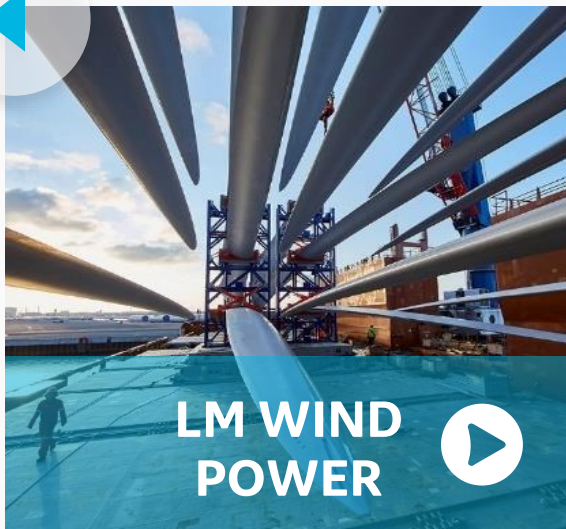
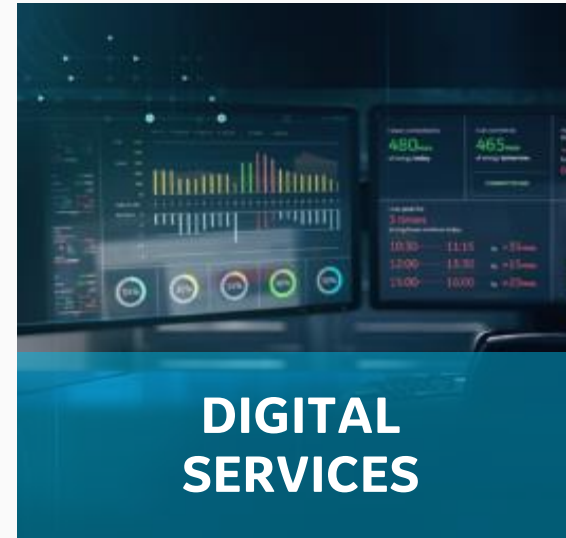
Project Review  
Board

Execution  
Excellence

Functional  
Excellence







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





**45,000+**  
Wind turbines  
installed globally

**85+ GW**  
installed  
base

**Cypress\***, the largest  
GE Onshore Wind Turbine,  
providing up to **5.3MW**







## OVERVIEW

GE is committed to our customers' success in wind. We offer a focused portfolio of products & services to enhance site economics and performance over the life of your wind farm, making renewables the energy of choice for a cleaner future.

## SERVICE OFFERINGS

A range of flexible solutions using big data to optimize output, productivity & revenue. GE's PowerUp Services\* offering is a set of software and hardware upgrades, helping customers realize up to 5% increase in AEP and up to 20% increase in profit.

## PRODUCTS

### Ranging up to 5.3 MW

- Broad family of smart, modular turbines.
- Customizable solution – varying nameplate, rotor diameter, tower height – to fit unique pad conditions.

### Digital wind farm

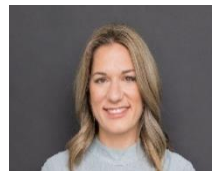
- A comprehensive, farm level solution - dynamic, connected and adaptable wind energy ecosystem.
- Utilizing software to get the most out of your hardware.



**Manar Al Moneef**  
MENAT



**Vikas Anand**  
Americas



**Sheri Hickok**  
Asia Pacific



**Peter Wells**  
Europe & Sub-Saharan Africa



## Megawatt Constrained



**1MW**

- 1.x-70
- 1.x-77
- 1.x-82.5
- 1.x-87
- 1.x-100
- 1.x-103

Launched in 2002

26000+ Units



**2MW**

- 2.x-107
- 2.x-116
- 2.x-127
- 2.x-132\*

Launched in 2015

6000+ Units



- 2.x-100
- 2.x-103
- 2.x-120
- 3.x-103
- 3.x-130
- 3.x-137

Launched in 2007

4000+ Units

## Land Constrained



**5MW/Cypress**

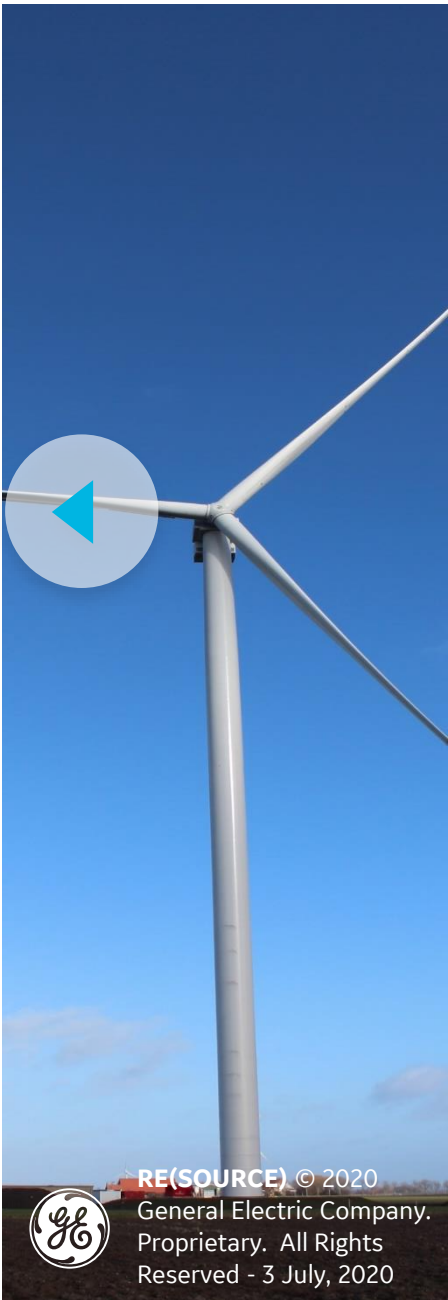
- 5.x-158

Launched in 2019

Validation Unit Operational







Designed to Grow and Adapt

GE's Largest, High Efficiency Onshore Turbine



Innovative Carbon Two-Piece Blade Design by LM Wind Power

GROWTH OVER TIME ... **50%**  
INCREASE IN AEP OVER GE'S 3 MW

**158 m**  
ADAPTS TO MEET YOUR NEEDS

POWER:  
**4.8 MW to 5.3 MW**

ENERGY YIELD: **20+ GWh/yr**

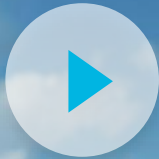
WIND CLASS: **IEC (S)**  
LOW TO MEDIUM WIND SPEEDS

## CYPRESS PLATFORM: BUILT ON PROVEN TECHNOLOGY

- Two-piece blade enables improved **logistics** and **siting** potential, easily assembled onsite
- Drive train builds on **30,000+ unit experience** with 2X and 3X platforms
- Proven **doubly-fed induction generator (DFIG)** technology
- Meets demanding **grid integration** requirements through **intelligent control systems**
- **Flexibility** to provide many noise reduced operation modes
- **Condition-based and predictive services** to ensure more reliability, uptime and production

*Improving AEP, driving down LCOE*





**4,000** field engineers & **1,000** experienced service technicians

**1,100+** years of GE combined experience

**80%** of issues resolved in **<10** minutes

**20%** increase in turbine resets





Our digital products and lifecycle solutions are driven by our customers' operational strategy. We focus on what matters most to them—outcomes that increase revenue, reduce costs and lower risk. GE does this by applying data-driven insights, expert recommendations, and advanced field services, fully integrated in a single software platform.



**Anne McEntee**  
Digital Services  
Schenectady, US

**10,500** Turbines optimized

**4,000** Field Engineers and **1,000** experienced service technicians globally

**70 GW** of wind and hydro power connected

**1,100+** Years of GE combined experience

**80%** of issues resolved in <10 minutes

**By 2025** Potential \$10bn of service market

**20%** increase in turbine resets

**CONNECT**

Real time access to data

**ANALYZE**

Identify the Problem

**FIX**

Deploy Resources

**OUTCOMES**

Achieve Results

**Customer Outcomes Achieved: 5+% in Performance Improvements, 10+% reduction in cost and lower risk**







Worldwide, **90%** of the power transmission utilities have been **equipped by GE**

Largest number of **800 kV AC** substations in the world, more than **50% of the installed base**

More than **35 GW** supplied **HVDC capacity** worldwide







## OVERVIEW

The electrical grid is the backbone of the energy value chain. It has been described as the largest machine ever made by humans and celebrated as one of the greatest engineering achievements of the 20th century.

We serve customers globally with over 15,000 employees in approximately 70 countries. Grid Solutions helps enable utilities and industry to effectively manage electricity from the point of generation to the point of consumption, helping to maximize the reliability, efficiency and resiliency of the grid.

We enable the energy transition, focusing on these grid priorities:

- Help meet growing energy demands
- Improve grid resiliency and energy efficiency
- Upgrade and digitize aging infrastructure
- Enable renewables and a diversified energy mix

## SERVICE

GE is dedicated to the success of its customers and provides an array of comprehensive services to help successfully deploy and maintain its Grid Solutions products and business solutions globally.

With over a century of experience in delivering products & services from the Power Plant to the End Power Consumer (Commercial, Industrial and Residential), Grid Solutions offers customized or standardized services. We support every stage of the technology life cycle and every piece of equipment in operation.



**Heiner Markhoff**  
**Grid Solutions**  
Paris, France

[+ Learn more about Grid Solutions](#)







Pioneering key advancements for the past 100 years, GE delivers protection, control, diagnostics, communications and power equipment across the power system.

- Smart Controls & Sensors: From generators to transmission lines, to motors and beyond, we help ensure dependable, safe power worldwide.
- Software Solutions: With GE Digital Grid Software business, GE provides a complete portfolio of software solutions for customers in multiple industries. For electric utilities, this includes end-to-end solutions that optimize the way to solve for the challenge of grid transformation in an integrated and interoperable grid management solution.
- HV/MV equipment: As a global leader in grid infrastructure products and services, GE supports a broad set of utility applications ranging from medium voltage to high and ultra-high voltage power equipment.
- Power Projects: GE is improving power quality, stability and maximizing grid performance with systems such as High Voltage Direct Current (HVDC) systems, that enable utilities to move more power further, interconnect grids, integrate renewables, and improve network performance.







**1 out of 5**  
turbines worldwide  
uses LM blades

**13,752 blades**  
produced in  
2019

**LM 107.0 P**  
the world's longest  
wind turbine blade

**113 GW** supplied  
capacity  
worldwide





## OVERVIEW

- Pioneers of technological advancement in the wind industry with over 190 patents since the 1970s
- A true global footprint with factories in or near all major wind countries
- Powering thousands of turbines on land and at sea, for GE and other customers

## PRODUCTS

**Wind turbine blades** designed to operate for 20 years, withstanding all types of weather. Blades range from 1.5 MW-2 MW to 2.5 MW-3.3 MW, up to 8 MW-10MW.

**Features & Add-ons.** The features blend high performance and reliability, positioning LM Wind Power as the largest supplier of wind turbine blades. Add-ons customized for each blade type in consultation with our customers.

## SERVICE OFFERINGS

**Service** with full spectrum of maintenance and support, global footprint, regional workshops, and more than 35 years of experience ensure efficient and fast response to repair requests.

**Logistics** to ensure maximum protection and minimize cost, our engineering team has evolved the Pack and Stack model of transporting wind turbine blades for over 10 years, by sea, barge and road.



**Olivier Fontan**  
LM Wind Power  
Paris, France





# Increasing Value For Customers

70m  
1,500 kW



2002

**34.0 m**  
 = 1,688  
 = 4,339

48.2m  
750 kW



1998

**23.5 m**  
 = 650  
 = 1,670

16m  
50 kW





1978

**7.7 m**  
 = 55  
 = 141

220m  
12MW





2019

**107 m**  
 = 16,000  
 = 57,000\*

180m  
8 MW





2016

**88.4 m**  
 = 10,000  
 = 25,000

150m  
5-6 MW



2012

**73.5 m**  
 = 7,295  
 = 18,750

126m  
5 MW



2004

**61.5 m**  
 = 6,417  
 = 16,493

 **Number of households supplied**

 **Tons of CO<sub>2</sub> mitigated**

 [Learn more about LM Wind Power](#)

• The calculation for the 107 m blade is based on GE's Haliade-X turbine for consistency in this particular publication. The non-turbine calculation for the blade is 41120 tons of CO2 mitigated







INSTALLED

First **American** offshore wind farm:  
**Block Island**  
**5 Haliade\* 150-6MW**

INSTALLED

**ASIA:** Fujian Xinghua Gulf demo windfarm  
**3 Haliade\***  
**150-6MW**

INSTALLED

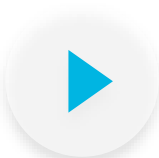
**EUROPE:** Merkur Windfarm  
**66 Haliade\*** **150-6MW**

INSTALLED

**Haliade-X 12 MW**  
The world's **most powerful** offshore wind turbine in operations. Installed in Rotterdam







**Provide most powerful offshore wind turbine on the market, Haliade-X 12MW**

## OVERVIEW

Poised to become a global leader in the rapidly growing offshore market. An ambitious industrial plan at several locations around the world serves the global industry.

## SERVICE OFFERINGS

### Optimizing wind power generation lifetime output

- Preventive maintenance
- Corrective maintenance

## PRODUCTS

**Haliade-X: The world's first 12 MW most powerful offshore wind turbine:** 220-meter rotor, 107 meter blade, leading industry capacity factor (63%) & advanced digital capabilities.

One Haliade-X 12 MW will generate up to 67 GWh annually, enough clean power to fill the needs of 16 000 households and produce more energy than any other offshore wind turbine available today.

Haliade-X prototype is located in the port of Rotterdam-Maasvlakte and has been named preferred wind turbine for almost 5GW of future projects in the US and the UK, that will power more than 5 million households.

**Haliade\* 150-6 MW:** high yield offshore wind turbine. Currently powering 30MW US first offshore wind project (Block Island), 18MW Xinghua Gulf demo-project, and 396MW Merkur windfarm in Germany.

## INSTALLED\*\*

- US: 5 x Haliade\* in Block Island
- China: 3 x Haliade\* in Xinghua Gulf
- Germany: 66 x Haliade\* in the North Sea

## BACKLOG

- France: +480 MW Haliade\* (in assembly)



**John Lavelle**  
Offshore Wind  
Nantes, France



**12 MW** capacity

**220-meter** rotor

**107-meter** long blades

**260 meters** high

**67 GWh** gross AEP

**63%** capacity factor

**38,000 m<sup>2</sup>** swept area

Wind Class IEC: IB

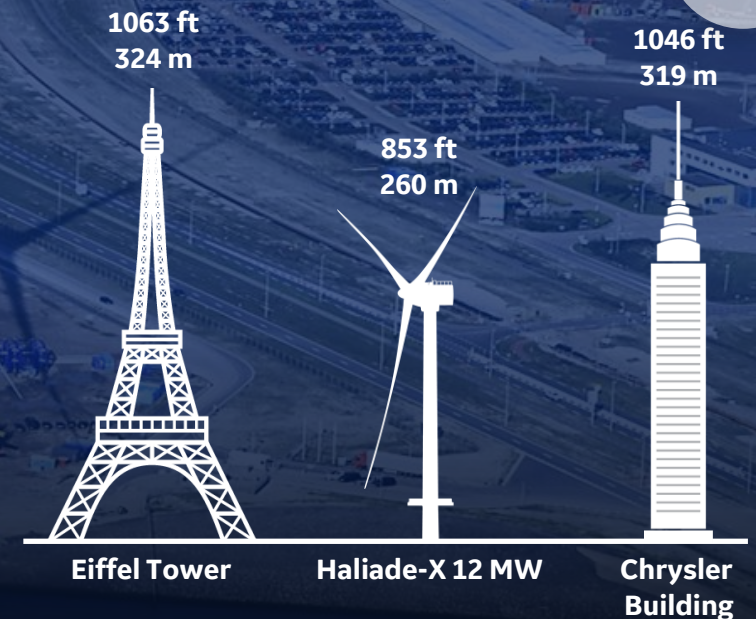
Generates double the energy as previous GE Haliade model

Generates more energy than any other wind turbine available on the market today

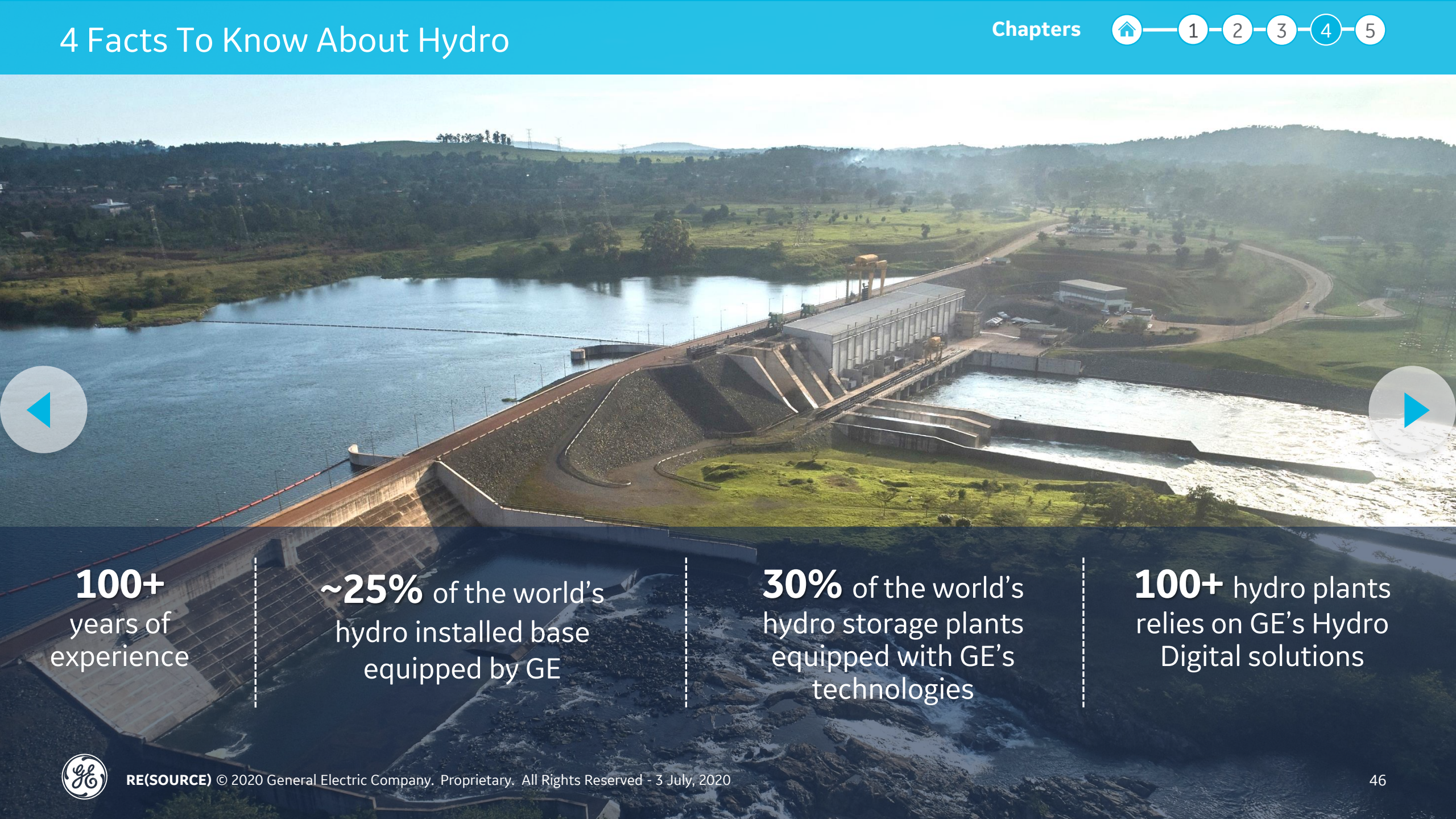
Will generate enough clean power for up to **16,000** European households per turbine, and up to **1 million** European households in a 750 MW configuration windfarm

## HALIADÉ-X 12 MW

GE Renewable Energy has developed Haliade-X 12 MW, the biggest offshore wind turbine in the world, with 220-meter rotor, 107-meter blade, leading capacity factor (63%), and digital capabilities, that will help our customers find success in an increasingly competitive environment. Haliade-X is helping to make offshore wind a more competitive source of renewable energy.







**100+**  
years of  
experience

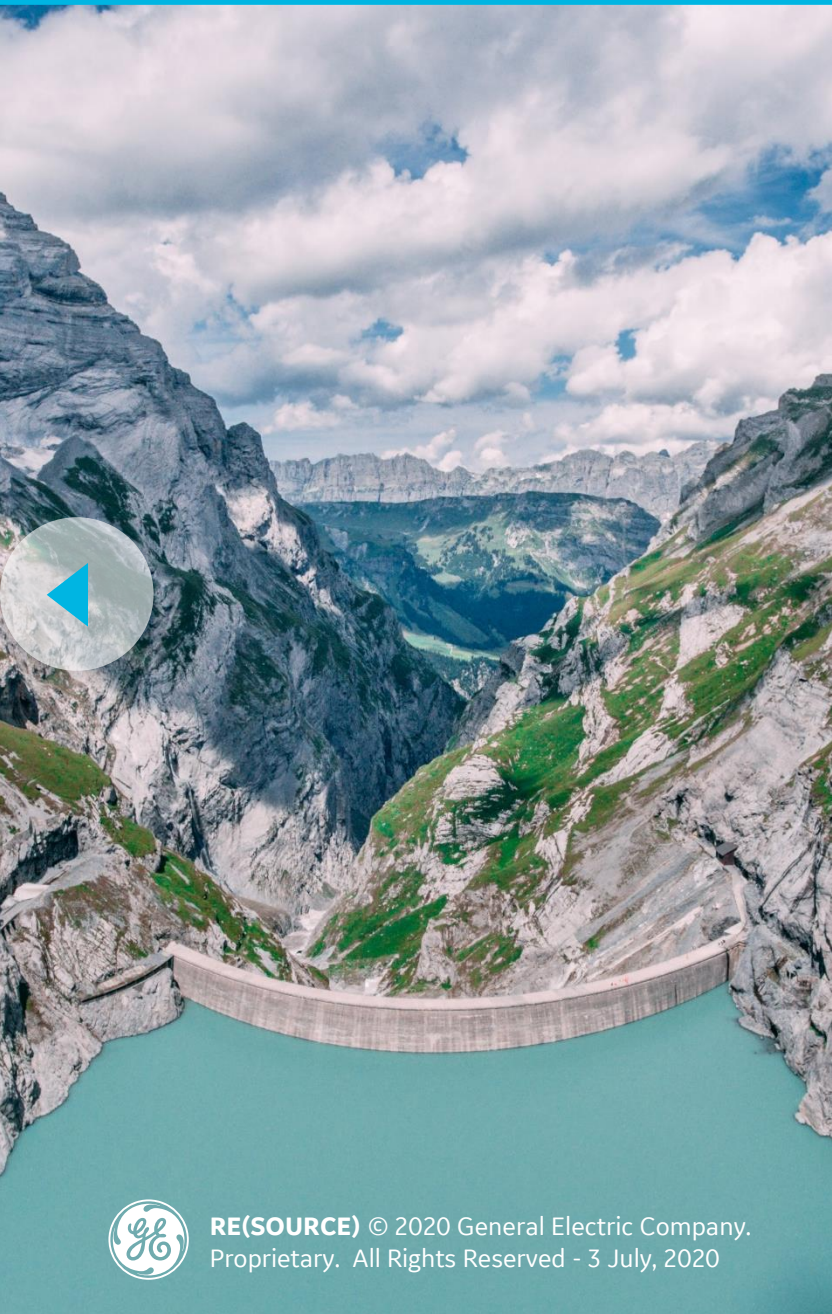
**~25%** of the world's  
hydro installed base  
equipped by GE

**30%** of the world's  
hydro storage plants  
equipped with GE's  
technologies

**100+** hydro plants  
relies on GE's Hydro  
Digital solutions







## WE ARE HYDRO ...

We believe that the combination of our extensive hydro and digital intelligence makes GE Renewable Energy well-suited to serve this intense & ongoing energy transition.

Smarter and more connected, GE's hydro plants no longer just generate power, they store it and deliver it to the grid with an unmatched level of predictability, flexibility and efficiency.

## A WIDE RANGE OF HYDRO SOLUTIONS ...

**Large:** Our portfolio covers a variety of hydropower plants, from high to low head and run-of-river configurations.

**Small:** We offer standard small hydropower solutions from 5 MW unit output to best fit customer's specific needs.

**Micro:** GE Renewable Energy's Hydro business and Emrgy combine their strengths around a high-performing micro hydro technology (self-contained module made of twin turbines - 2x5 kW or 2x7.5 kW), generators, electrical cabinet, connectable to BoP/Grid.

**+ Hydro Storage:** GE Renewable Energy has the largest installed base of pumped hydropower storage units in operation. With +30% of the world's hydro storage plants equipped with our technologies, we can provide a solution adapted to meet the specific needs of our customers in a variety of environments.

## ... COMBINED WITH DIGITAL SERVICES PROVEN EXPERTISE

**Services:** Our flexible & customized services solutions contribute to enhance the efficiency and extend the life of our customer assets. Our services offerings range from remote monitoring to full maintenance.

**Digital:** Digital is disrupting and transforming the electricity industry, and hydropower is no exception. GE's Hydro digital solutions help lower costs and improve the flexibility of hydro equipment. The future of hydropower is definitely digital.



**Pascal Radue**

**Hydro**

Paris, France







## WATER MANAGEMENT

As Hydropower experts, water management is at the core of our expertise benefiting to local activities.

- Agriculture & irrigation
- Water security
- Flows management
- Sanitation

**Rarely recognized in the business model as not highly remunerated**



## SUSTAINABLE DEVELOPMENT

Hydropower is one of the oldest ways used for producing decarbonized electricity at the lowest LCoE\*.

- Energy independency
- Local Communities... employment, education, recreation, tourism
- Mitigating the impacts of extreme weather events such as floods and drought.

*\*LCoE: Levelized Cost of Energy*



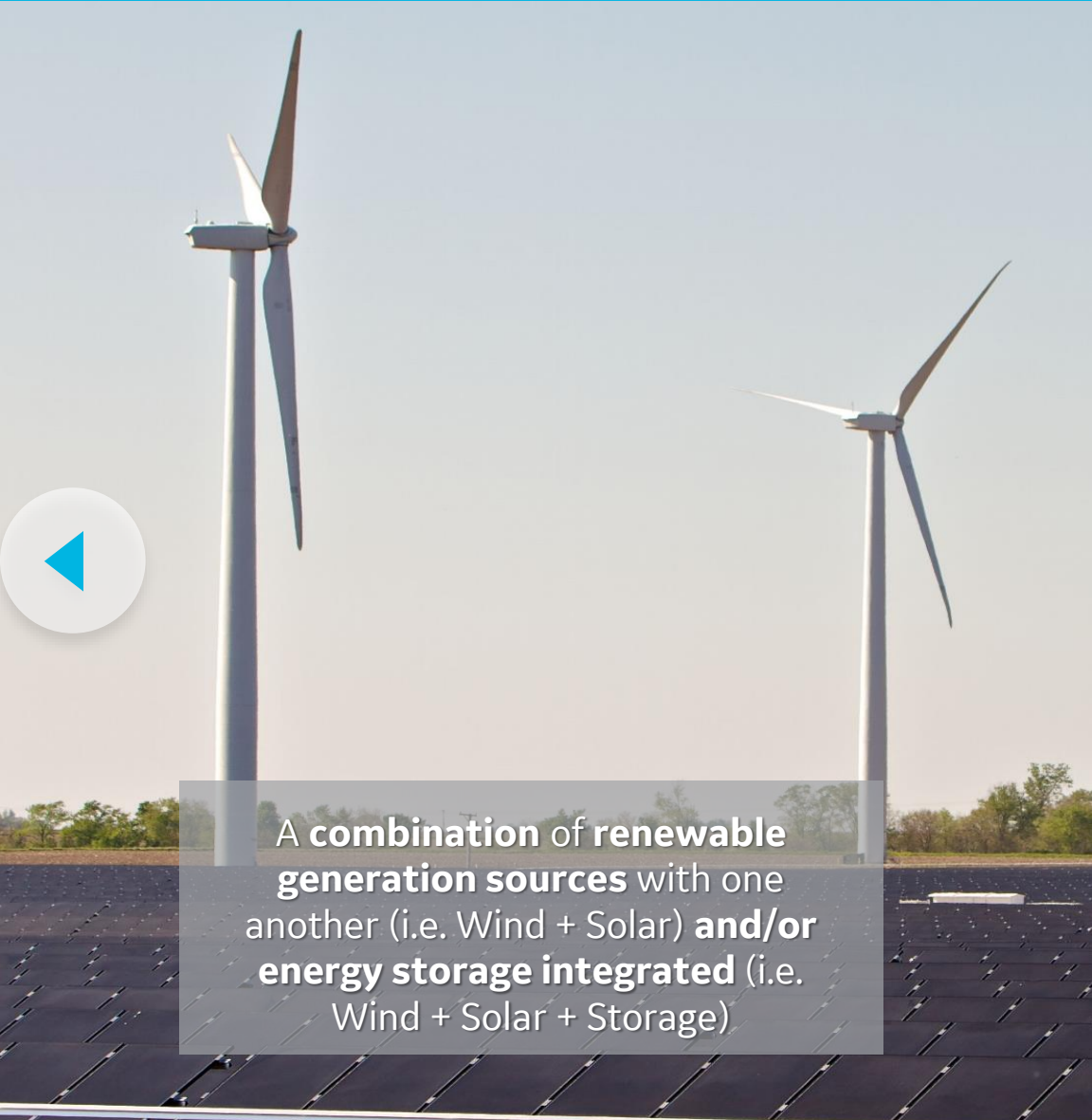
## ENABLER OF THE ENERGY TRANSITION

Hydropower is the perfect enabler of renewable expansion.

- Reliable, storable and flexible electricity
- Balancing wind and solar
- Stabilizing the Grid through ancillary services
- Hydropower has the lowest carbon footprint over its life cycle than any other form of energy

... playing a key role in the renewables expansion





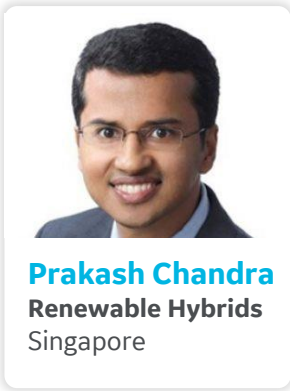
A **combination of renewable generation sources** with one another (i.e. Wind + Solar) **and/or energy storage integrated** (i.e. Wind + Solar + Storage)

## OVERVIEW

As the world sees an increased penetration of renewable generation, driven by declining levelized cost of electricity (LCOE) of wind and solar, in a context of declining costs of battery storage, renewable hybrid solutions can help accelerate this energy transition even further by:

- Leveraging complementarity of wind and solar resources to improve capacity factor and optimize the use of land, Electric Balance of Plant (EBOP) and infrastructure
- Enabling the dispatchability of variable renewables to supply energy when it is most valuable
- Reducing variability and providing services to ensure stability and reliability of the grid

[+ Learn more about Renewable Hybrids](#)



**Prakash Chandra**  
Renewable Hybrids  
Singapore





## Renewable Hybrids Offering



Value Modelling



Controls



Digital Services



Grid Solutions



Wind



Hydro



Solar

### RENEWABLE SYSTEMS



Hydro Pumped Storage (PSP)



Battery Energy Storage (BESS)

### STORAGE SYSTEMS

### GE PARTNERS

- GE Power
- GE Global Research Center
- GE Energy Consulting
- GE Energy Financial Services



## SOLUTIONS

GE Renewable Energy can offer:

- Hybrid site assessment including resource assessments, site configuration, design, engineering and optimization
- Provision of hybrid hardware (wind turbines, solar inverters, battery storage) and related operations & maintenance services
- Design of a Hybrid Controls architecture / GE Hybrid Controller including Hybrids Dashboard and reporting
- Provision of engineering, procurement and commissioning services

## HARDWARE



### GE RESERVOIR STORAGE UNIT

Up to 4MWh Capacity. Enhanced to reduce installation cost and shorten project schedule



### SOLAR INVERTERS

LV5+ Solar Power Station and stand-alone inverter





# Chapter V: Global Presence





**Global Footprint\***  
Presence in **80+** countries

\*Representing Production, Engineering & HQs sites.



- + NAM region
- + LATAM region
- + EMEA region
- + APAC region





# Welcome To A New Adventure







## Discover Our Leaders' LinkedIn Profiles




**Jérôme Péresse**  
President and CEO  
Paris, France





**Vikas Anand**  
Onshore Wind  
Americas  
Norwalk, US




**Peter Wells**  
Onshore Wind  
Europe & SSA  
Barcelona, ES



**Manar Al Moneef**  
Onshore Wind  
MENAT  
Dubai, UAE



**Sheri Hickok**  
Onshore Wind  
APAC  
Singapore




**John Lavelle**  
Offshore Wind  
Nantes, France





**Prakash Chandra**  
Renewable Hybrids  
Paris, France



**Pascal Radue**  
Hydro  
Paris, France




**Heiner Markhoff**  
Grid Solutions  
Paris, France




**Anne McEntee**  
Digital Services  
Schenectady, US



**Claus Rose**  
EHS  
Hamburg, DE



**Danielle Merfeld**  
Technology  
Schenectady, US





<b>AC</b>	ALTERNATING CURRENT
<b>APAC</b>	ASIA PACIFIC
<b>APM</b>	ASSET PERFORMANCE MANAGEMENT
<b>CAGR</b>	COMPOUND ANNUAL GROWTH RATE
<b>EMEA</b>	EUROPE MIDDLE EAST & AFRICA
<b>GLBTA</b>	GAY, LESBIAN, BISEXUAL, TRANSGENDER & ALLIES
<b>HPP</b>	HYDRO POWER PLANT
<b>HVDC</b>	HIGH VOLTAGE DIRECT CURRENT
<b>IB</b>	INSTALLED BASE
<b>LATAM</b>	LATIN AMERICA
<b>LCoE</b>	LEVELIZED COST OF ENERGY
<b>MENAT</b>	MIDDLE EAST, NORTH AFRICA AND TURKEY

<b>NAM</b>	NORTH AMERICA
<b>PD</b>	PERFORMANCE DEVELOPMENT
<b>PSP</b>	PUMPED STORAGE HYDROPOWER PLANT
<b>R&amp;D</b>	RESEARCH AND DEVELOPMENT





**FP&A:** Stands for financial planning and analysis. Typically, financial planning and analysis departments are structured to serve upper level management with the information they need to make strategic, operational, and tactical decisions. FP&A is the central nervous system of GE.

**Operating Profit/Op Profit:** The profit earned from a firm's normal core business operations.

**Revenue:** The amount of money that a company actually receives during a specific period, including discounts and deductions for returned merchandise. It is the "top line" or "gross income" figure from which costs are subtracted to determine net income.

**Base Cost:** Also called **Fixed Cost:** Expenses that have to be paid by a company, independent of any business activity, such as rent, advertising, insurance, office supplies.

**Variable Cost:** A corporate expense that varies with production output. Variable costs are those costs that vary depending on a company's production volume; they rise as production increases and fall as production decreases, such as materials, factory labor, direct costs for products and services.

**Margins:** Profit margins are expressed as a percentage and, in effect, measure how much out of every dollar of sales a company keeps in earnings. A 20% profit margin, then, means the company has a net income of \$0.20 for each dollar of total revenue earned.

**Organic Growth:** The growth rate a company can achieve by increasing output and enhancing sales internally. This does not include profits or growth acquired from takeovers, acquisitions, or mergers.

**YOY:** Year Over Year. Frequently used by investors seeking to gauge whether a company's financial performance is improving or worsening.

**FCF:** Free Cash Flow. A measure of a company's financial performance, calculated as operating cash flow minus capital expenditures.

**WC:** Working Capital. The measure of both a company's efficiency and its short-term financial health. Working capital is calculated as Current Assets - Current Liabilities.

**CFOA:** Cash Flow from Operating Activities. The money a company brings in from ongoing, regular business activities, such as manufacturing and selling goods or providing a service. Cash flow from operating activities does not include long-term capital or investment costs. It does include earnings before interest and taxes plus depreciation minus taxes.

**EPS:** Earnings Per Share. The portion of a company's profit allocated to each outstanding share of common stock. Earnings per share serves as an indicator of a company's profitability.







**Share your feedback**

[RenewableEnergy.Communications@ge.com](mailto:RenewableEnergy.Communications@ge.com)



**Jérôme Péresse**  
President & CEO,  
GE Renewable Energy

Jérôme leads GE Renewable Energy, reporting to CEO Larry Culp. GE Renewable Energy, which has the broadest renewable energy portfolio in the industry, includes onshore and offshore wind, blades, hydro, storage, utility-scale solar, and grid solutions as well as hybrid renewables and digital services offerings. Jérôme is part of the Corporate Executive Council (CEC), which includes the top 45 officers in GE who work on significant decisions about the strategy and future of the company.

Jérôme Péresse was appointed President of Alstom Renewable Power Sector and Executive Vice-President of Alstom, in June 2011. He created Alstom's Renewable Power business which had close to 10,000 employees and sales of around €2 billion. He joined Alstom from Imerys, where he held several positions during his 12 years there, starting with Vice-President Strategy and Development until being appointed Chief Operating Officer of Imerys in 2008. Prior to this, he was with Crédit Suisse First Boston from 1992, firstly as associate, then Vice-President, and finally Director responsible for mergers and acquisitions for France.

Born in 1967, Jérôme Péresse is a former student of the Ecole Polytechnique and an engineer from Ponts & Chaussées.





**Vikas Anand**  
CEO,  
Onshore Wind  
Americas

Vikas oversees the strategic and operational execution of Onshore Wind activities in the Americas Region for GE Renewable Energy. This includes sales, business development, project execution, fleet reliability and services operations. Made up of North America and Latin America, the Americas Region consists of 27,000+ turbines with a capacity of over 46GW.

Prior to his current role, he was the Chief Financial Officer of Onshore Wind at GE Renewable Energy. In this role, Vikas helped guide the business through global growth and transformation initiatives. He oversaw financial activities within the accounting and controllership, financial planning and analysis, tax and treasury departments.

Before moving to GE Renewable Energy in 2016, he was the Chief Financial Officer for Energy Financial Services (EFS) at GE Capital. At the time, GE Capital had ~\$15B in energy related assets. Vikas was a voting member of the Investment Committee at EFS, which was responsible for deploying ~\$2.5B of capital annually to sectors including Wind Energy, Solar, Thermal and Oil & Gas Infrastructure. He would later help navigate GE Capital through an unprecedented commodity downturn.

Vikas joined GE in 2000. During his tenure, he has held multiple global finance and commercial roles including Deputy Treasurer and Head of Fixed Income Investor Relations. In this role, he managed relationships with debt and equity investors including U.S. and European money managers, pension funds and Sovereign Wealth Funds.

Vikas holds a Master of Business Administration degree from Columbia University in New York. He also holds a Chartered Accountancy certification from the Institute of Chartered Accountants of India.



**Peter Wells**  
CEO,  
Onshore Wind Europe  
& Sub-Saharan Africa

Peter Wells is the Chief Executive Officer of the Europe (and Sub Saharan Africa) Region in Onshore Wind, for GE Renewable Energy.

Peter joined the Onshore Wind team from Vestas, where he was the Senior Vice President and COO for Services and Projects, for Vestas Americas. In this role, he was responsible for all Projects & Services operations in the US and Canada, and led the integration of UpWind Solutions into the broader service organization, improving top line growth and margins, establishing the Vestas repowering model for the US, and introducing new operating models with digital tools. Peter spent five years with UpWind, where he was CEO, growing the business 10X to create the leading Independent Service Provider in the US, before successfully selling the business to Vestas in 2015.

Prior to his move to UpWind, Peter spent ten years with GE in a variety of roles, including Six Sigma, Marketing, Parts GM, and VP New Plant Project Operations in various GE Energy business units. Peter, who is originally from the UK, previously spent time at a variety of European companies, mostly in the EPC (Engineering, Procurement & Construction) space as a Chartered Surveyor, dealing with the commercial management of large and complex infrastructure projects.

Peter has a Bachelor's Degree in Science and Quantity Surveying from The Nottingham Trent University.





**Sheri Hickok**

CEO, Onshore Wind  
Asia Pacific

Sheri currently serves as Chief Executive Officer of Onshore Wind business in the Asia region (including Asia and ANZ continents) at GE Renewable Energy. Sheri also serves as an independent director on the Newmont Mining Co board.

Sheri joined GE in 2017, and most recently oversaw the launch of GE Renewable Energy's industry-leading Cypress onshore wind turbine platform, as well as the launch of the best-selling 2.5-116 turbine.

Prior to joining GE, Sheri served as CTO for Autonomous Partnerships & Fleets at General Motors. During her 22-year tenure at General Motors, Ms. Hickok held various positions including Chief Engineer for Next Generation Full-Size Trucks, and Executive Director for Global Supplier Quality & Development. She also led operations at GM's Global Noise and Vibration Center and served as Chief Engineer on the Buick LaCrosse and Cadillac XTS. Sheri joined GM in 1995 as a co-op and progressed through a number of roles within the company.

Sheri holds a Bachelor's degree in Mechanical Engineering from Kettering University, Master's degree in Engineering from Purdue University, and Master's degree in Business Administration from the University of Michigan.



**Dr. Manar Al Moneef**  
CEO,  
Onshore Wind MENAT

Dr. Manar Al Moneef is CEO for GE Renewable Energy Onshore Wind business in the Middle East, North Africa, and Turkey regions. She leads a broad renewable portfolio, mainly focusing on Onshore Wind and supporting the growth of Off-shore Wind, Hydro and Wind Blades. She is responsible for driving the growth and operational excellence for GE Renewable Energy as well as bringing together technology, services and digital solutions across the entire spectrum of Renewable Energy development.

Prior to that, Dr. Manar Al Moneef was the Chief Growth Officer for GE in MENAT region. She was responsible for driving the growth strategy for GE by creating and executing on growth initiatives, identifying and developing new business opportunities, building capacity and capabilities. Prior to that, Dr. Al-Moneef held various commercial and operational leadership roles globally and regionally in Healthcare, Global Growth Organization, and Oil and gas.

Before joining GE, Dr. Manar Al Moneef was the Director General of Health Care & Life Sciences at the Saudi Arabian General Investment Authority (SAGIA). Dr. Al-Moneef was leading all health care and life sciences investments in Saudi Arabia and positioning Saudi Arabia globally as a first investment destination.

Dr. Al Moneef has a Doctoral Degree in Molecular Oncology from Leicester University, a Master Degree in Molecular Medicine from Cambridge University, and an MBA from Harvard Business School.





**John B. Lavelle**  
President & CEO,  
Offshore Wind

John Lavelle is a GE Company Officer and the Vice President and CEO of GE Renewable Energy's Offshore Wind business, where he leads the global business strategy with the mission to become one of the top three players in the offshore wind industry globally.

John has broad experience as a 35-year GE veteran, with various leadership roles across the GE Energy business, including sales and service engineering positions before he assumed the position of Region Executive for South Asia. In 2000, John relocated to the United States as General Manager of Global Marketing & Commercial Operations for GE Energy Services. From 2008 to 2012, he was the VP, Global Projects Operation for GE Energy, prior to that, John was President of GE's Gasification business, based in Houston, TX. Prior to his appointment to GE Renewable Energy, John served as the Vice President of GE Digital Energy since August 15, 2012 and as Chief Executive Officer of the Digital Energy Business of GE Energy Management Inc. until November 6, 2015.

John is a native of Holyoke, Massachusetts. He holds a Bachelor of Arts in Liberal Arts from St. Anselm College in Manchester, NH, and a Bachelor of Science in Mechanical Engineering from the University of Massachusetts - Lowell. John currently serves on the GE/Prolec Board and the Board of Trustees for St. Anselm College in Manchester, NH. He previously served on the Union Graduate College board in Schenectady, NY, the GE-Hitachi Nuclear Energy Board of Directors as well as the Schenectady Chamber of Commerce.



**Olivier Fontan**  
President & CEO,  
LM Wind Power

Olivier Fontan is the President and CEO of GE Renewable Energy's LM Wind Power business. LM Wind Power is a world leading designer and supplier of rotor blades for wind turbines.

Prior to this new role, Olivier was a GE Company Officer and the Vice President of Global Supply Chain for GE Renewable Energy. In addition, Olivier is Renewable Energy's Business Champion for the FastWorks and HealthAhead initiatives.

Olivier led supply chain operations for Power & Water in Asia. In early 2000, Olivier joined GE Energy in France, as a Manufacturing Leader. By end of 2002, he became the Six Sigma Master Black Belt for the Hungarian plant. In 2004, Olivier moved to China, supporting new factories start up, and then he transitioned as the General Manager for these plants. In late 2006, he was named as General Manager for Asia Manufacturing, GE Energy – Global Supply Chain Management. Before joining GE, Olivier worked as Manufacturing Leader in the car industry and worked for the global sourcing organization of Alstom.

Olivier graduated with M.S degrees in Mechanical and Manufacturing Engineering.





**Pascal Radue**  
President & CEO,  
Hydro

Pascal Radue is the President & CEO of GE's Hydro Solutions for GE Renewable Energy, based in Paris, France.

Pascal Radue joined from Steam Power where he led both the Clean Combustion Product Line (Boilers & Air Quality Control Systems) and the Asia Pacific Region for GE Steam Power.

Pascal Radue is a seasoned leader that brings a wealth of strategic thinking and an intense focus on execution. He has a passion for the energy industry in which he has developed a profound experience in project and general management.

He started his career with Alstom Power in Belfort, France, in 2001. He then held several leadership roles for Alstom and then for GE Power, in Australia, Switzerland, Thailand, and Malaysia. He has a proven track record of delivering complex projects in a global environment, as well as developing and implementing global transformation strategies that support business growth.

Pascal Radue is passionate about working in and building multinational collaborative teams, as well as establishing strong relationships with customers and stakeholders.

Pascal Radue holds a Master of Engineering (Hons) degree in Naval Architecture from Southampton University in the UK.



**Heiner Markhoff**  
Vice President &  
CEO, Grid Solutions

Heiner is the Vice President & CEO of GE Renewable Energy's Grid Solutions business.

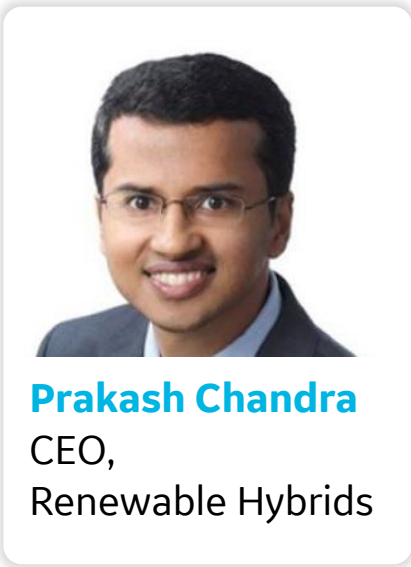
Heiner started his GE career as Project Manager in GE's Corporate Business Development Group in 1994 and successively took on numerous leadership roles at GE Plastics, including leading the GE Plastics Europe MEA. In 2008, Heiner was appointed CEO GE Water Technologies & Solutions, and in 2016 he took on the combined leadership role for GE Water & Distributed Power. He drove significant operational and financial improvements and led the sale of GE Water & Process Technologies to Suez/CDPQ in 2017. He was subsequently appointed CEO of Suez Water Technologies & Solutions and Member of the Management Board at SUEZ, S.A., a position he held until 2019.

Heiner has a track record of growth, transformation and operational performance in diverse global businesses.

Throughout his extensive career, Heiner has been based in the U.S., Belgium, Netherlands and Germany working for a variety of GE businesses, including GE Silicones, GE Plastics and GE Power & Water.

Heiner studied Economics at the University of Münster, Germany, and has a degree in Business Administration from the University of Cologne, Germany.





Prakash Chandra is the Renewable Hybrids Leader for GE Renewable Energy since April, 2019. In his role, Prakash Chandra drives the growth strategy for the renewable hybrid initiative that combines solar inverters, energy storage and renewable hybrids capabilities.

Since October 2017, Prakash was Chief Financial Officer for GE Renewable Energy's Hydro business. Previously, Prakash was the global CFO for the GE Boilers business, within GE Steam Power Systems. Since 2014, Prakash held a dual role as CFO for GE Power in Asia Pacific and Regional CFO for GE in South East Asia (ASEAN).

Prakash started his career with GE in India as part of the Financial Management Program and then joined the Corporate Audit Staff. His experience on these leadership programs over 6 years included financial, compliance, M&A and risk management work across Healthcare, Energy, Media, Commercial Finance, Capital, Consumer Finance and the Reinsurance businesses in North America, Europe and Asia-Pacific. Over the following 5 years, Prakash held various roles in GE's Financial services businesses in Asia based in Tokyo and then subsequently in Singapore where he was the CFO for GE Capital in the South East Asia region before moving to his Regional CFO role in GE ASEAN in 2011.

Prakash graduated with a Bachelor of Commerce degree from Bangalore, India. He is a member of the Institute of Chartered Accountants of India.



**Anne McEntee**  
Vice President &  
CEO, Digital Services

Anne McEntee is a GE Company Officer, the Vice President and CEO of GE Renewable Energy's Digital Services business, working closely with the Onshore Wind, Offshore Wind and Hydropower businesses to provide more customer value and integrated solutions for the industry. Anne is also Renewable Energy's Business Champion for the African American Forum.

Anne is a 15-year GE veteran who has worked and advanced through a series of increasingly responsible assignments in quality, manufacturing/operations and sourcing within GE's energy divisions. Previously, Anne spent four years as President and CEO of GE's Onshore Wind business. Prior to her role in Renewable Energy, Anne was Vice President of Flow & Process Technologies, a division of GE Oil & Gas. She has also held the role of general manager of Power Services, and general manager for GE's Quality organization.

Anne holds a bachelor's degree in applied mathematics, a master's degree in mathematics, and a Ph.D. in applied mathematics, each from Rensselaer Polytechnic Institute in Troy, NY.





**Steve Swift**  
Senior Executive,  
Commercial  
Excellence

Steve Swift is the leader of Commercial Excellence at GE Renewable Energy since May 2020. He provides commercial insights across the business units and regions.

Prior to joining GE in 1997, Steve has been in the energy industry for 35 years starting as a field engineer and sales manager for Babcock and Wilcox. Over the last 23 years with GE, he has worked in multiple energy generation technologies doing proposal and contracting work in Steam and Gas Turbines both domestically and internationally. Steve worked in the Gas and Combined Cycle markets during the Gas turbine bubble of the early 2000s.

In 2004, Steve was promoted to the Commercial Leader for GE Hydro and subsequently took over the commercial lead for the Americas' as GE combined its Gas, Steam, Hydro, and Wind Businesses from 2005 to 2010. As the Onshore Wind business continued to grow, it was split out as a separate business within GE and Steve has been the Global Sales Leader since 2011.

Steve is a graduate of the University of Delaware with a Degree in Mechanical Engineering. Together with his wife Tracy, they reside in Clifton Park NY, U.S.



## **Claus Rose**

Senior Executive,  
Environment, Health  
& Safety (EHS)

Claus Rose is the leader for Environment, Health & Safety at GE Renewable Energy. He has worked in the renewable energy industry for almost 12 years in various positions - Engineering, EHS and Quality areas.

He was one of the founding fathers of Global Wind Organization and served 9 years as Chairman of the Board.

Claus previously owned a consultancy company dealing with special constructions to be risk assessed to match legislation.

He served 20 years as an officer in the Danish Army, with international postings and holds a degree in management and business administration from the Danish Army Officers Academy in Copenhagen.





**Brian Ray**  
Senior Executive,  
Project Management  
Office

Brian Ray is the Senior Executive for Project Management Office at GE Renewable Energy.

Brian joined GE Renewable Energy from the GE Corporate PMO, where he was most recently responsible for Construction & Commissioning, serving as the primary interface for Gas Power Systems (GPS), in addition to leading the Project Management track of GE Power's XLP program, and the Project Management Leadership Program. He began his GE career in 1989 as part of the Edison Engineering Program in GE Aerospace supporting military aircraft control system programs and, since then, held positions of increasing responsibility at GE Power.

His project experience includes engineering and sourcing execution, project and construction site leadership, EPC consortium relationship management and project development, and leadership for turnkey tendering activities across a variety of power generation technologies.

Brian holds a bachelor's degree in electrical engineering from Rensselaer Polytechnic Institute and a master's degree in Computer Systems Engineering from Syracuse University.



**David Majors**  
Onshore Wind  
Product  
Development

David currently serves as Product Development Leader for the Onshore Wind Business, based in Greenville, North Carolina. He is responsible for the development and execution of an industry leading platform strategy and product portfolio.

David brings more than 30 years of global engineering and product development experience from the automotive industry. He has successfully led global teams in launching winning products, while reducing product cost and improving product quality. He joined GE from NAVISTAR, where he has most recently been serving as Vice President for Engineering and Product Development leading a large global product portfolio. During his tenure at NAVISTAR, he also led multiple product centers and was the Global Director for Chassis Systems Engineering.

Before joining NAVISTAR, David worked at Visteon Corporation, where he served in several engineering roles, including Senior Program Manager of Chassis Product for the Ford Expedition and Navigator vehicle lines. Prior to Visteon, David worked for Ford Motor Company and held Manufacturing Engineering, Product Engineering, Production and Program Planning positions, supporting air induction and fuel systems for light truck and car programs.

David has a bachelor's degree in mechanical engineering from Michigan State University and a master's degree in engineering management from the University of Michigan.





**Danielle Merfeld**  
Chief Technology  
Officer

Danielle Merfeld is the Chief Technology Officer for GE Renewable Energy. She leads transformational innovation efforts to enable new products and services in the Renewable Energy fields. Passionate about the development and promotion of talented women, she is also the co-leader of GE's global Women's Network.

Danielle has 12 years of experience in research and engineering at GE. She began as a Solar Platform Leader at GE Global Research, worked and advanced through different missions in GE's energy divisions. She has held the roles of Technology Director, Electrical Technologies and Systems and Vice President at GE Global Research before joining GE Renewable Energy on November 2017 as Chief Technology Officer.

Danielle holds a Bachelor's degree and a Ph.D. in Electrical and Electronics Engineering from University of Notre Dame and Northwestern University.



**Matteo Tarditi**  
Vice President &  
Chief Financial  
Officer

Matteo Tarditi is the Vice President and Chief Financial Officer for GE Renewable Energy since January 2019. Prior to it, Matteo was the Chief Financial Officer for GE Power, \$13bn worth GE business.

From 2016 to 2017, Matteo was the Company Officer (VP) and Chief Financial Officer for GE Energy Connections and led the integration of Power and Energy Connections. In 2015 he was promoted CFO of GE Grid Solutions, a newly formed GE-Alstom JV in Paris and in 2013, he was appointed CFO for the Avio Aero acquisition, a primary supplier to GE Aviation in Italy. In 2010 he was promoted CFO of the Oil&Gas Drilling & Production business in Houston where he managed the acquisition/integrations of Wellstream, WoodGroup Well, Vetco Gray, Hydril, Sondex. In 2005, Matteo was appointed CFO for GE Healthcare Japan in Tokyo, and then he led the global FP&A for GE Oil & Gas and Energy Infrastructure in Atlanta. In 1999, Matteo joined the GE Corporate Audit Staff where he progressed to Executive Audit Manager and Controller for Europe, Middle East, Africa. In 1997, he joined GE on the Financial Management Program.

Matteo was born in Milan, Italy and is a graduate of Bocconi University where he earned a master degree in Finance.





**Roshni Haywood**  
VP & Senior HR  
Leader

Roshni Haywood is the Senior HR Leader for GE Renewable Energy.

Roshni joined GE in June 1996 as HR Manager for GE Consumer Finance in the UK, responsible for Sales & Marketing. In 1999 she was promoted to Human Resources Director for the GE Consumer Finance business responsible for the UK & Ireland and in September 2002 was appointed Executive Development Leader within Corporate Human Resources based in Fairfield, CT. In March 2004, Roshni was appointed HR Integration Leader, GE Healthcare. In October 2004, Roshni was promoted to the position of VP HR, GE Healthcare International. In February 2009, Roshni was appointed Senior HR Leader for GE Capital Europe, Middle East and Africa and was appointed Senior HR Leader, GE Capital International, responsible for EMEA and Asia Pacific in August 2013.

In February 2019, Roshni was promoted to Company Officer (VP).



**Angelica Tritzo**  
Chief Information  
Officer

Angelica is the Chief Information Officer for GE Renewable Energy. She has 20 years of experience at GE and started working for GE Renewable Energy in 2016.

Angelica was the CIO for the Turbomachinery Solutions and Europe region at GE Oil & Gas, leading transformational digital thread initiatives and core ERP integrations among others. Angelica has covered multiple IT positions gaining a global and broad perspective. Recently she has been responsible for the Subsea Systems division based in Aberdeen, UK. In this role she was instrumental in implementing system backbones globally and investing in analytics to help drive simplification and standardization worldwide.

Angelica began her career with GE Oil & Gas Nuovo Pignone as DataWarehouse IT leader, subsequently expanding her background by covering different positions across Finance, Sales, Sourcing, Acquisition Integrations, Due Diligence and ERP implementations.





**Bengt Persson**  
Chief Quality  
Officer

Bengt Persson is Chief Quality Officer for GE Renewable Energy since January 2020. He is responsible for driving quality as a priority across all regions and functions within GE Renewable Energy business, including the development and implementation of the annual strategic Quality road map, which helps shape GE Renewable Energy's wing-to-wing business priorities.

Bengt brings more than 30 years of Quality leadership from multiple industries. He was previously serving at ABB as Vice President of Quality and Operations, Robotics and Motion Division. Prior to his role with ABB, Bengt spent four years in Oslo, Norway, as Senior Vice President for Aker Solutions, creating and leading a transformation program aimed at improving cost efficiency and building a culture of continuous improvement engaging all employees.

Bengt has degrees in Economics and Engineering, and a bachelor's degree in Automation Technology from Chalmers University in Sweden.



**Alyson Clark**

Senior Executive &  
General Counsel

Since November 2015, Alyson has been the General Counsel for GE Renewable Energy, leading a team of lawyers whose expertise supports commercial, compliance, litigation, environment, health and safety, intellectual property and labor and employment activities to drive GE Renewable Energy's safe and profitable growth.

Alyson joined GE in the UK in 1996, since then she has worked in the UK, the United States and Paris across GE's Energy businesses, including as Sr Commercial Counsel for GE Energy, General Counsel for Power Conversion and Legal Integration Leader for the Alstom acquisition. Prior to joining GE, Alyson qualified as a solicitor at, and worked for some years with, Clifford Chance London, specializing in commercial and project finance.

She holds an LLB from Bristol University.

Alyson is a strong supporter of all forms of diversity. She is GE Renewable Energy's executive leader for GE's LGBTQA Affinity Network, and a co-Sponsor for GE's Western Europe Women's Network.





**James Healy**  
Senior Executive,  
Communications &  
Public Affairs

James Healy is Senior Executive Communication leader of GE Renewable Energy. James leads a team of global communicators delivering enterprise-wide communications, including marketing communications, employee communications and public relations. In addition, James is leading Communications for the Global Growth Organization for Europe.

Prior to this role, James led Communications for the GE-Alstom integration team, responsible for all internal and external communication for GE's largest-ever industrial acquisition. He assumed this role in September of 2015 after eight years as head of Communications for GE's largest energy businesses. From 2012 to 2015, he led Communications for GE Power & Water. From 2007 to 2012, he had the same role for GE Energy. James first joined GE in 1998 as a Communications Program Manager for GE's Global Research Center (GRC), then he became Director of Communications and Public Relations overseeing marketing communications, media relations, organizational communication, and public affairs.

James holds a B.A. degree in Communications from the State University at Buffalo.



**Josephine Ford**  
Senior Strategy &  
Business Development  
Leader

Jo (Josephine) Ford is Senior Strategy and Business Development Leader for GE Renewable Energy. Her role is to drive strategic activities and business development in close coordination with the GE Center of Excellence, working with the senior leadership team to build the capital investment strategy and governance framework for the company, including mechanics for capital investment reviews, metrics and decision-making matrices.

Jo has been with GE for almost 18 years. Most recently, she was a member of the Corporate BD team where she led a number of key projects as part of the ongoing transformation of GE. Jo initially joined GE Capital and held a variety of risk management and underwriting roles. In 2007, she moved to the Middle East, where she joined the BD team as part of a small group responsible for developing partnerships with Sovereign Wealth Funds and other sovereign investment arms. She moved from BD back into a risk role where she was responsible for oversight of the Abu Dhabi based Mubadala GE Capital Joint Venture. In 2014, Jo moved back to London and in 2015 she set up the BD Project Management Office for GE Capital International to oversee the execution of the disposition of GE Capital assets.

In 2016, Jo joined Renewable Energy, where she set up the XLP program as well as led a business transformation project. Prior to joining GE, Jo worked for the Canadian ECA where she was part of the Energy Project Finance Team.

Jo has a Bachelor of Science (Honours) degree from Queen's University, Canada, and a Master of Business Administration from McMaster University in Canada.





**JC Sandberg**  
Executive Counsel  
Government  
Relations

JC Sandberg is Managing Director of Global Government Affairs and Policy for GE Renewable Energy. As Managing Director, he sets global government engagement strategy for GE Renewable Energy's business units in key countries.

Prior to joining GE, JC was counsel and senior public policy advisor at the law firm of Baker Donelson. At Baker Donelson, he advised a broad array of energy clients on federal legislative and regulatory policy in the areas of unconventional oil and gas, renewable energy, nuclear power, and foreign direct investment in domestic energy resources.

Before Baker Donelson, JC served as counsel to the United States Senate Committee on Environment and Public Works. For his Senate service, he was recognized as one of National Journal's "Hill 100" key congressional staff and was selected as a John C. Stennis Congressional Fellow.

JC is a member of the California and District of Columbia bar associations and currently serves on the Board of Visitors of the James E. Rogers College of Law at the University of Arizona. He received his law degree from the University of Arizona where he was awarded the Dean's Public Service Award. He received his Bachelors in Accounting from Brigham Young University.



**Nick Polanski**

Senior Executive,  
Lean Transformation  
Leader

Nick is the Lean Transformation Leader for GE Renewable Energy. In this role, he is working with the P&L and functional leaders to develop a Lean strategy and roadmap, ensure it is embedded in business key operations, and helps developing a Lean mindset in all teams.

Nick brings 20+ years of operational experience in multiple industries through a variety of business cycles. Most recently, he was with Innocor Inc., a \$1B foam mattress manufacturer owned by Bain Capital, where he was Senior Vice President of Operations responsible for 1,800 employees in 23 manufacturing and distribution centers. In his tenure, he helped double the company's operating profit and enabled the sale to a strategic buyer two years ahead of plan, with \$600M in value creation.

Prior to that, Nick was General Manager of Assa Abloy's Door Group Service Centers where he developed and implemented a strategy that doubled revenue organically over three years.

Nick is a Master Black Belt in all 9 lean tools through Danaher Corporation, where he held several roles from 1997 to 2006, including Value Stream Manager and Global Lean Leader of Danaher's Dental Platform from 2004 to 2006.

Nick holds a Bachelor of Science and Chemistry from the University of Akron, Ohio, and graduated from a 2-year Executive leadership training program at IMD Business School in Lausanne.





**Tony Long**  
General Manager,  
Global Sourcing

Anthony "Tony" Long is the General Manager of Global Sourcing for GE Renewable Energy since May 2020.

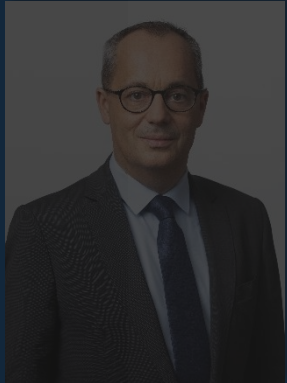
He was appointed as the sourcing leader in January of 2013. From 2018 through January 2020, Tony also led the Onshore Global Supply Chain and Manufacturing, returning to a Global Strategic Sourcing focus for the Wind businesses in 2020.

Tony began his GE career in 2003 with GE Plastics as part of the global sourcing strategy team in Pittsfield, MA, where he progressed into sourcing leadership roles. After the transition of GE Plastics to SABIC in 2008, Tony left SABIC and led an aerospace organization for a mid-west boutique private equity firm in Wichita, KS. In 2009, Tony rejoined GE as the General Manager, Global Sourcing for GE Water and Process Technologies, in Philadelphia, PA.

Tony started his career with E.I. DuPont de Nemours and Co in manufacturing, manufacturing leadership, and sales roles. Prior to joining GE, Tony was a Global Account Director for ChemConnect, Inc, an internet vertical focused on the chemicals and plastics industry.

Tony holds a Bachelor degree in chemical engineering from Drexel University and an MBA from University of Delaware. He and his wife have two children and reside in Saratoga Springs, NY, USA.

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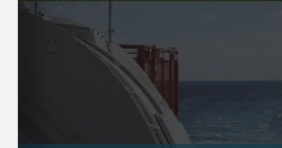
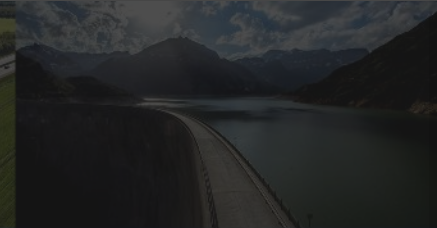
GE Today

From Light Bulb To Renewables

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GE: In It For The Long Run



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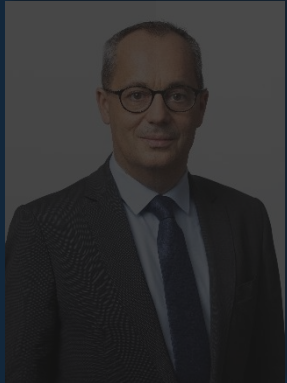


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Our Priority: Providing Affordable Green Energy

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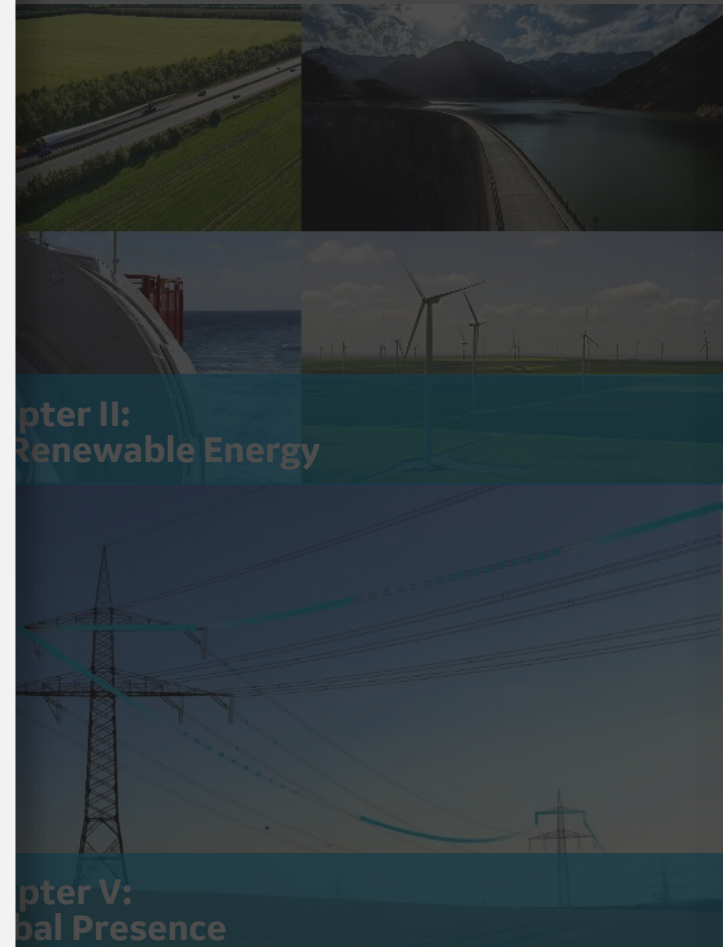
GE Renewable Energy: The Leadership Team

Diversity & Inclusion

Affinity Networks

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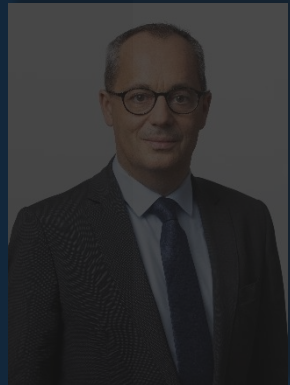


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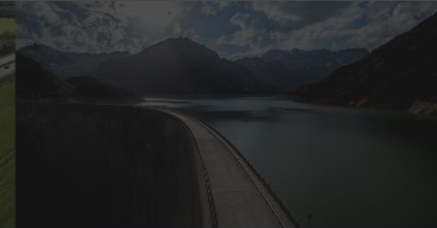
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### Overview & Trend

Renewables Are Mainstream

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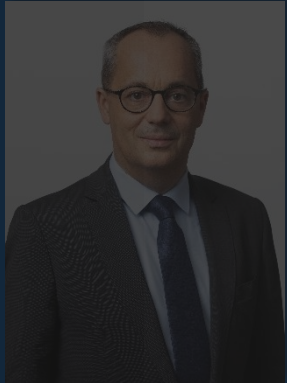


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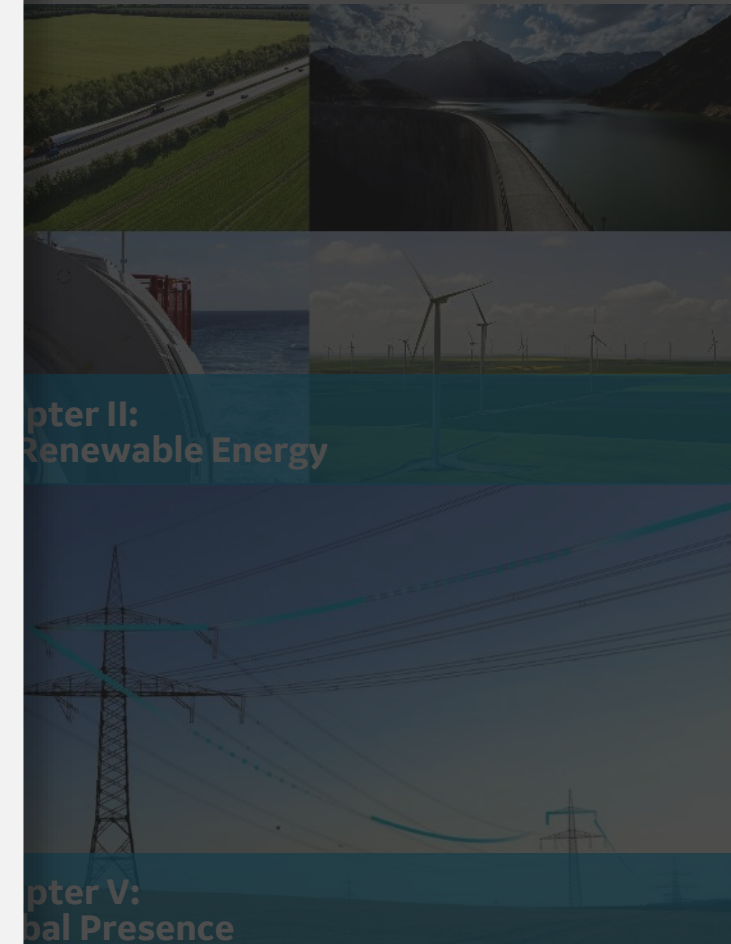
Grid Solutions

LM Wind Power

Offshore Wind

Hydro

Renewable Hybrids

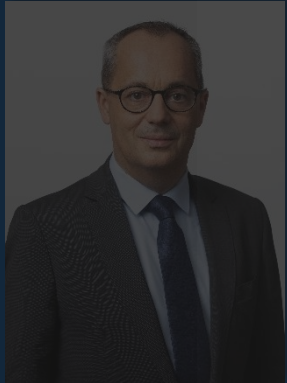


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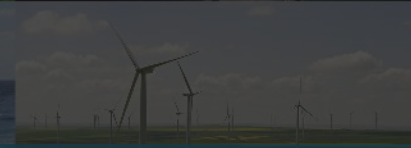
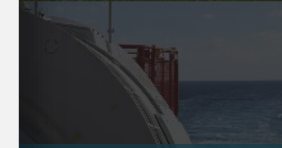
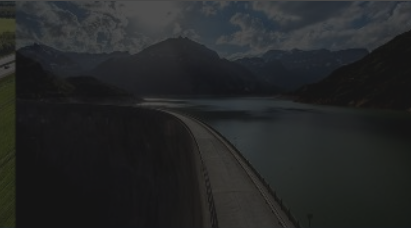


### A- Overview

Our Worldwide Facility Footprint

### B- Welcome To A New Adventure

Stay Tuned!



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**Jérôme Péresse**  
Renewable Energy  
Paris, France



## The Leadership Team



**Jérôme Péresse**  
Renewable Energy

Jérôme leads GE Renewable Energy, reporting to CEO Larry Culp. GE Renewable Energy, which has the broadest renewable energy portfolio in the industry, includes onshore and offshore wind, blades, hydro, storage, utility-scale solar, and grid solutions as well as hybrid renewables and digital services...

[Click here to read the full bio](#)



**Heiner Markhoff**  
Grid Solutions  
Paris, France



**John Lavelle**  
Offshore Wind  
Nantes, France



**Brian Ray**  
Project Mgmt.  
Office  
Schenectady, US



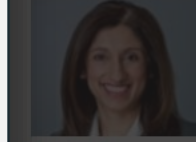
**David Majors**  
ONW Product  
Development,  
Greenville, US



**Danielle Merfeld**  
Engineering  
Charlotte, US



**Claus Rose**  
EHS  
Hamburg, DE



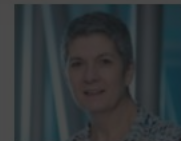
**Roshni Haywood**  
HR  
Paris, France



**Angelica Tritzo**  
Digital  
Technology  
Florence, Italy



**Bengt Persson**  
Quality  
Paris, France



**Alyson Clark**  
General Counsel  
Paris, France



**James Healy**  
Communications  
Paris, France



**Josephine Ford**  
Strategy & Business  
Development  
London, UK



**JC Sandberg**  
Government  
Relations  
Washington DC, US



**Nick Polanski**  
Lean  
Texas, US



**Tony Long**  
Sourcing  
Schenectady, NY



**Jérôme Péresse**  
Renewable Energy  
Paris, France



## The Leadership Team



**Vikas Anand**  
Onshore Wind  
Americas

Vikas oversees the strategic and operational execution of Onshore Wind activities in the Americas Region of GE Renewable Energy. This includes sales, business development, project execution, fleet reliability and services operations...

[Click here to read the full bio](#)



**Heiner Markhoff**  
Grid Solutions  
Paris, France



**John Lavelle**  
Offshore Wind  
Nantes, France



**Brian Ray**  
Project Mgmt.  
Office  
Schenectady, US



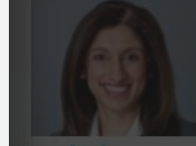
**David Majors**  
ONW Product  
Development,  
Greenville, US



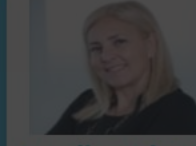
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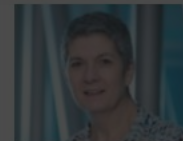
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**Jérôme Péresse**  
Renewable Energy  
Paris, France



## The Leadership Team



**Peter Wells**  
Onshore Wind Europe  
& Sub-Saharan Africa

Peter Wells is a Senior Executive and General Manager of the Europe (and Sub Saharan Africa) Region in Onshore Wind, for GE Renewable Energy...

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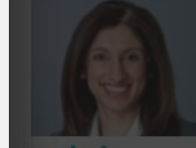
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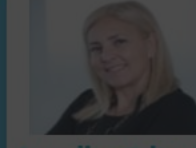
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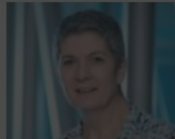
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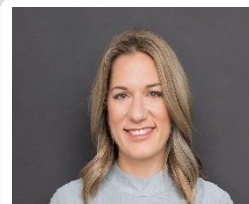




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Renewable Energy  
Paris, France



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**Sheri Hickok**  
ONW Asia Pacific

Sheri Hickok is the Region Leader for Onshore Wind in Asia Pacific for GE Renewable Energy. She was previously Global Product Development Leader for the Onshore Wind Business.

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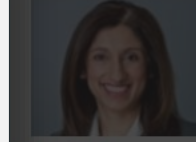
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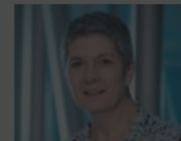
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## The Leadership Team



**Dr. Manar Al Moneef**  
Onshore Wind MENAT

Dr. Manar Al Moneef is the President and CEO for Onshore Wind in the Middle East, North Africa, and Turkey region.

She leads a broad renewable portfolio, focusing on On-shore wind and supporting the growth of off-shore wind, hydro and wind blades.

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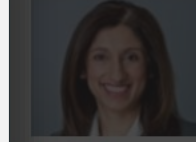
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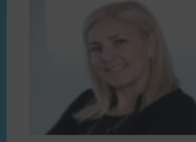
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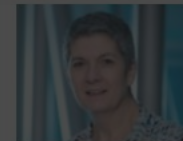
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Renewable Energy  
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## The Leadership Team



**John Lavelle**  
Offshore Wind

John Lavelle is a GE Company Officer and the President and CEO of GE Renewable Energy's Offshore Wind business, where he leads the global business strategy with the mission to become one of the top three players in the offshore wind industry globally...

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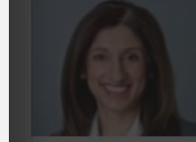
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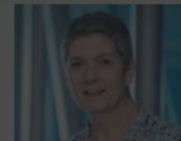
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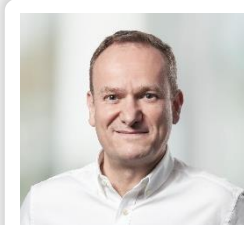




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**Olivier Fontan**  
LM Wind Power

Olivier Fontan is the President and CEO of GE Renewable Energy's LM Wind Power business. LM Wind Power is a world leading designer and supplier of rotor blades for wind turbines.

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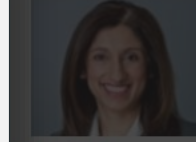
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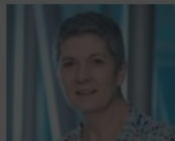
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**Pascal Radue**  
Hydro

Pascal Radue is the CEO of GE Renewable Energy's Hydro business. With 25% of global hydropower production made with GE Hydro equipment, GE is one of the world's leading hydro suppliers ...

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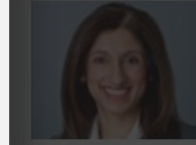
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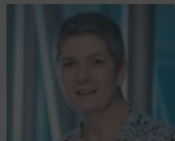
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Paris, France



## The Leadership Team



**Heiner Markhoff**  
Grid Solutions

Heiner is the Vice President & CEO of GE Renewable Energy's Grid Solutions business.

Prior to this role, he was CEO of SUEZ Water Technologies & Solutions, where he led the integration of SUEZ Industrial Solutions and GE Water & Process Technologies from 2017 to 2019.

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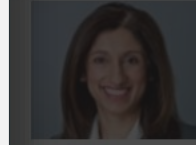
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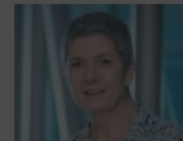
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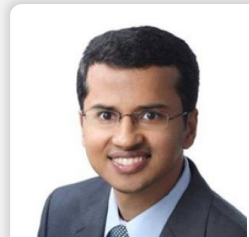




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Renewable Energy  
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## The Leadership Team



**Prakash Chandra**  
Renewable Hybrids

Prakash Chandra is the Renewable Hybrids Leader for GE Renewable Energy since April, 2019.

In his role, Prakash Chandra drives the growth strategy for the renewable hybrid initiative that combines solar inverters, energy storage and renewable hybrids capabilities.

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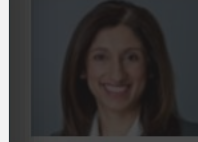
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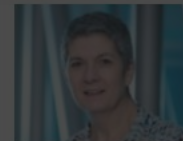
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## The Leadership Team



**Anne McEntee**  
Digital & Services

Anne McEntee is a GE Company Officer, the Vice President and CEO of GE Renewable Energy's Digital Services business, working closely with the Onshore Wind, Offshore Wind and Hydropower businesses...

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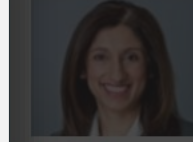
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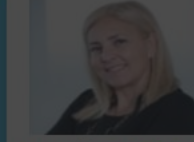
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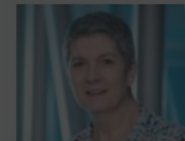
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**Steve Swift**  
Commercial

Steve Swift is the leader of Commercial Excellence at GE Renewable Energy. He provides commercial insights across the business units and regions.

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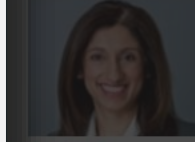
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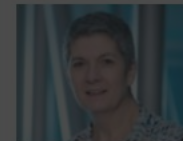
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## The Leadership Team



**Claus Rose**  
Environment, Health  
& Safety

Claus Rose is the leader for Environment, Health & Safety at GE Renewable Energy. He has worked in the renewable energy industry for almost 12 years in various positions, all in the Engineering, EHS and Quality areas.

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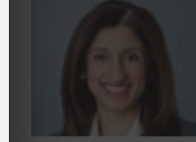
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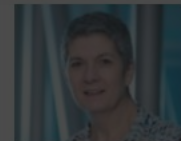
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**Brian Ray**  
Project Management  
Office

Brian Ray is the Project Management Office Leader of GE Renewable Energy. Prior to this new role, Brian was responsible for Construction & Commissioning, serving as the primary interface for Gas Power Systems (GPS) ...

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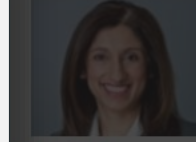
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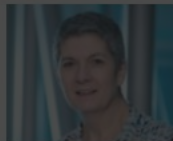
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**David Majors**  
Onshore Wind  
Product  
Development

David joined GE in October 2019 as Product Development Leader for the Onshore Wind Business, based in Greenville, North Carolina. David has deep engineering and product development experience, along with broad global leadership experience.

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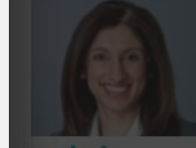
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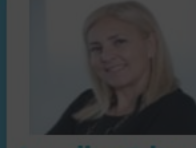
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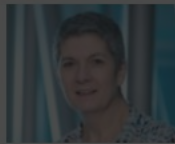
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Renewable Energy  
Paris, France



## The Leadership Team



**JC Sandberg**  
Government Relations

JC Sandberg is Managing Director of Global Government Affairs and Policy for GE Renewable Energy. As Managing Director, he sets global government engagement strategy for GE Renewable Energy's business units in key countries...

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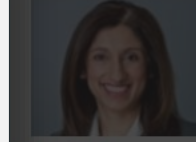
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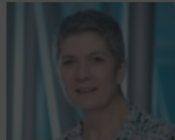
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**Nick Polanski**  
Lean

Nick is the Lean Transformation Leader for GE Renewable Energy. In this role, he is working with the P&L and functional leaders to develop a Lean strategy and roadmap, ensure it is embedded in business key operations, and help develop a Lean mindset in all teams.

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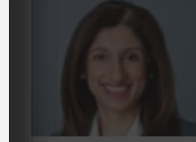
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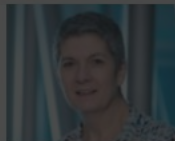
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**Tony Long**  
Sourcing

Anthony "Tony" Long is the General Manager of Global Sourcing for GE Renewable Energy since May 2020. He was appointed as the sourcing leader in January of 2013...

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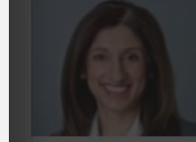
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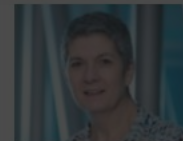
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## The Leadership Team



**Danielle Merfeld**  
Engineering

Danielle Merfeld is the Chief Technology Officer for GE Renewable Energy. She leads transformational innovation efforts to enable new products and services in the Renewable Energy fields. Passionate about the development and promotion of talented women, she is also the co-leader of GE's global Women's Network...

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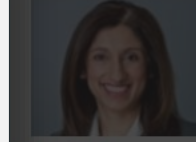
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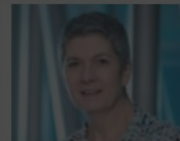
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## The Leadership Team



**Matteo Tarditi**  
VP & Chief Financial  
Officer

Matteo Tarditi is the Vice President and Chief Financial Officer for GE Renewable Energy since January 2019. Prior to it, Matteo was the Chief Financial Officer for GE Power, \$13bn worth GE business...

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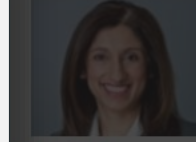
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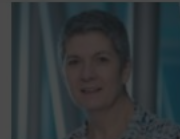
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**Roshni Haywood**  
VP & Senior HR

Roshni Haywood is the Vice President and Senior HR Leader for GE Renewable Energy. GE Renewable Energy is a start-up that brings together one of the broadest product and service portfolios of the renewable energy industry...

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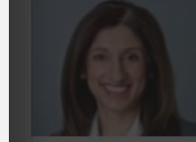
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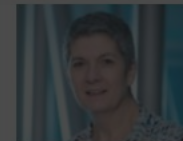
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**Angelica Tritzo**  
Digital Technology

Angelica is the Chief Information Officer for GE Renewable Energy. She has 20 years of experience at GE and started working for GE Renewable Energy in 2016...

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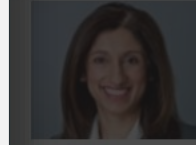
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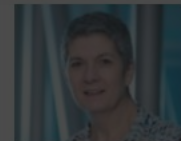
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**Bengt Persson**  
Chief Quality Officer

Bengt Persson is Chief Quality Officer for GE Renewable Energy since January 2020. He is responsible for driving quality as a priority across all regions and functions within GE Renewable Energy business, including the development and implementation of the annual strategic Quality road map.

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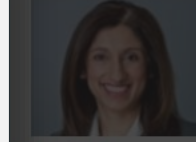
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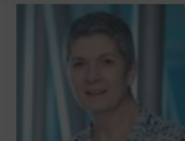
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**Jérôme Péresse**  
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**Alyson Clark**  
General Counsel

Since November 2015, Alyson has been the General Counsel for GE Renewable Energy, leading a team of lawyers whose expertise supports commercial, compliance, litigation, environment, health and safety...

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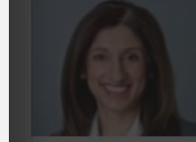
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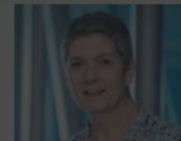
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**Jérôme Péresse**  
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**James Healy**  
Communications

James Healy is Senior Executive Communication leader of GE Renewable Energy. James leads a team of global communicators delivering enterprise-wide communications, including marketing communications, employee communications and public relations...

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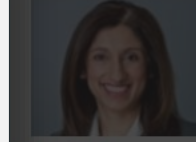
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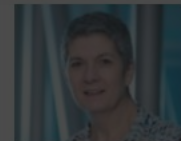
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**Josephine Ford**  
Strategy and Business  
Development

Jo (Josephine) Ford is Business Development Leader of GE renewable Energy. Her role is to establish and lead the Chief Investment office for GE, working with the senior leadership...

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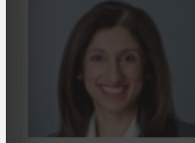
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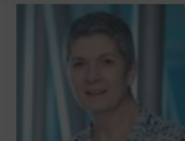
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We hire and promote the best talent everywhere in the world. This isn't enough. We are committed to an environment where all employees contribute and the best ideas win every day. At GE Renewable Energy, we have developed seven affinity networks to support and strengthen our all-inclusive workplace.

## Affinity Networks: Veterans Network



The Veterans Network was established in 2009 to create an extended GE community to support, develop and promote the unique characteristics of military veterans throughout GE's businesses and local communities.

Our mission is to empower our community of veterans and allies to Support, Hire and Grow GE veterans and to make GE the employer of choice for veterans, reservists and guardsmen.

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## Affinity Networks: African American Forum



Established in 1996 the African American Forum (AAF) is GE's first affinity network launched with the mission to strengthen African American employees at GE through professional development, career management and mentoring.

The AAF helps its members establish a strong personal network of fellow employees, leaders and mentors and provides opportunities for meaningful community outreach

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## Affinity Networks: Asian-Pacific American Forum



GE's Asian Pacific American Forum (APAF) is dedicated to attracting, developing and retaining Asian Pacific American talent and helping to create a resource pool to lead GE's global growth.

Established in 1999 APAF counts with 18 hubs and 39 chapters serving over 9,000 APA employees at GE across the US and Canada and fully embraces an outcome based approach and relentless focus on becoming a "Faster, Simpler, Smarter" affinity network.

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## Affinity Networks: Hispanic Forum



Founded in 1996, the Hispanic Forum provides a platform for developing Hispanic talent in the company and complements GE's business objectives by leveraging the diverse backgrounds and experiences of its members. The Hispanic Forum fosters connections at all levels of the organization, through events hosted throughout the year by national and local chapters where we share best practices and implement programs aimed at professional and personal development.

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## Affinity Networks: GLBTA Network



Dedicated to growing GLBT talent around the world, The Gay, Lesbian, Bisexual, Transgender and Ally Alliance helps GE build an adaptable and creative culture well positioned to meet the ever-changing needs of a rapidly changing business environment.

The Alliance promotes a space where everyone has the freedom to dialogue, show support and engage through educational sessions, professional development events, recruiting and many other activities.

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## Affinity Networks: Women's Network



Created in 1997, the Women's Network enables the more than 100,000 women working at GE to cultivate their leadership skills, business practices, personal contacts and career opportunities.

The rapidly growing Women's Network has evolved into a worldwide organization of over 160 hubs in 45 countries developing women in functions including commercial, technology and operations and recruiting women through the scholarship and GE Girls programs.

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We hire and promote the best talent everywhere in the world. This isn't enough. We are committed to an environment where all employees contribute and the best ideas win every day. At GE Renewable Energy, we have developed seven affinity networks to support and strengthen our all-inclusive workplace.

## Affinity Networks: People with Disabilities



The network fosters an inclusive environment in which people with disabilities can shine in ways that are uniquely possible at a company like GE.

The network's mission is to mobilize commitment to create a culture of inclusion; raise awareness and understanding regarding disabilities and work; share information resources and support for GE employees with disabilities and their allies.

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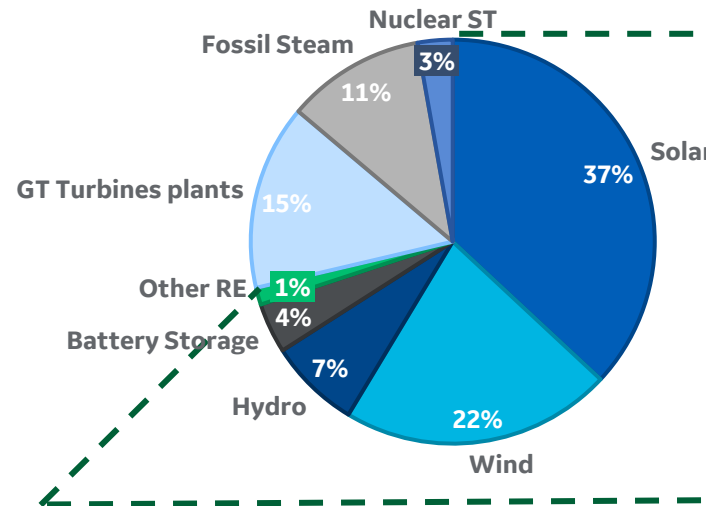


GE Renewable Energy has both facilities and plants on each continent

There will be 54% more renewable energy

### Global Renewable Energy Is Outpacing All Other Fuels

#### RENEWABLES AND GAS LEAD GROWTH



**Renewable energy 71% of cumul. new capacity additions over '19-'25 period**

Source: GE Internal GPO'20

+ ELECTRICITY GENERATION BY SOURCE

+ RENEWABLE ADDITIONS BY TECHNOLOGY

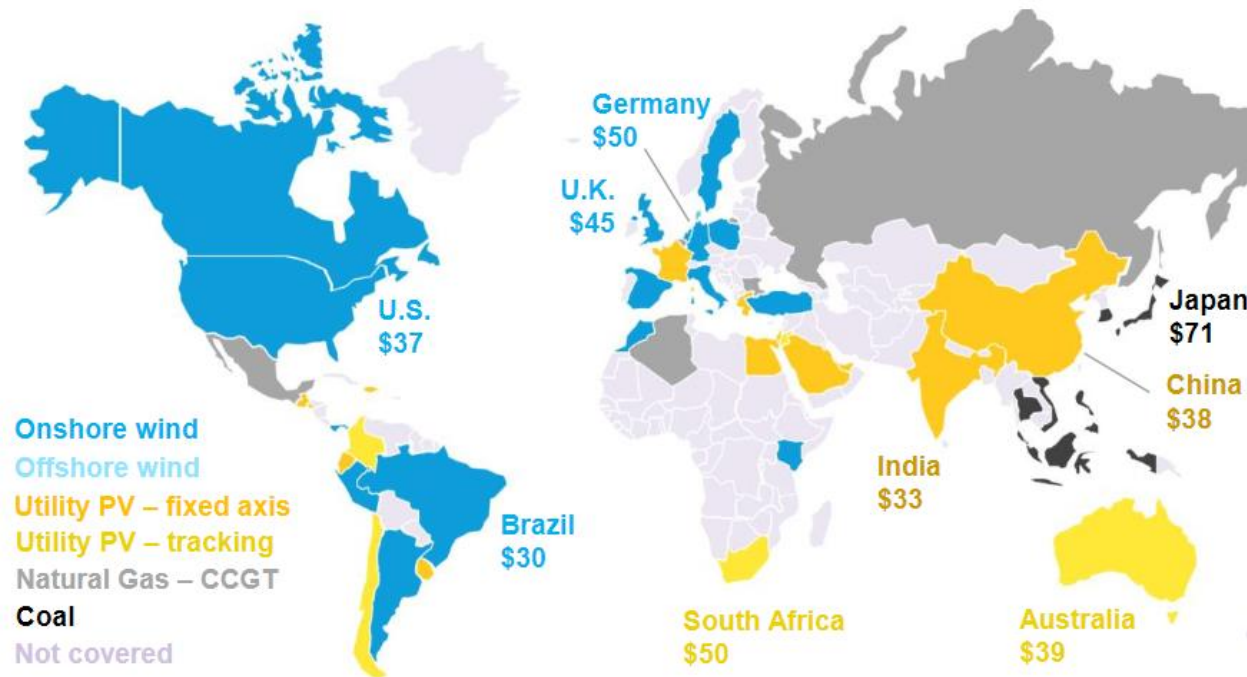


## Global Renewable Energy Is Outpacing All Other Fuels



**RENEWABLES ARE THE CHEAPEST SOURCE OF NEW BULK ELECTRICITY IN COUNTRIES REPRESENTING 2/3 OF THE WORLD POPULATION**

**Cheapest source of new bulk generation, 1H 2020**



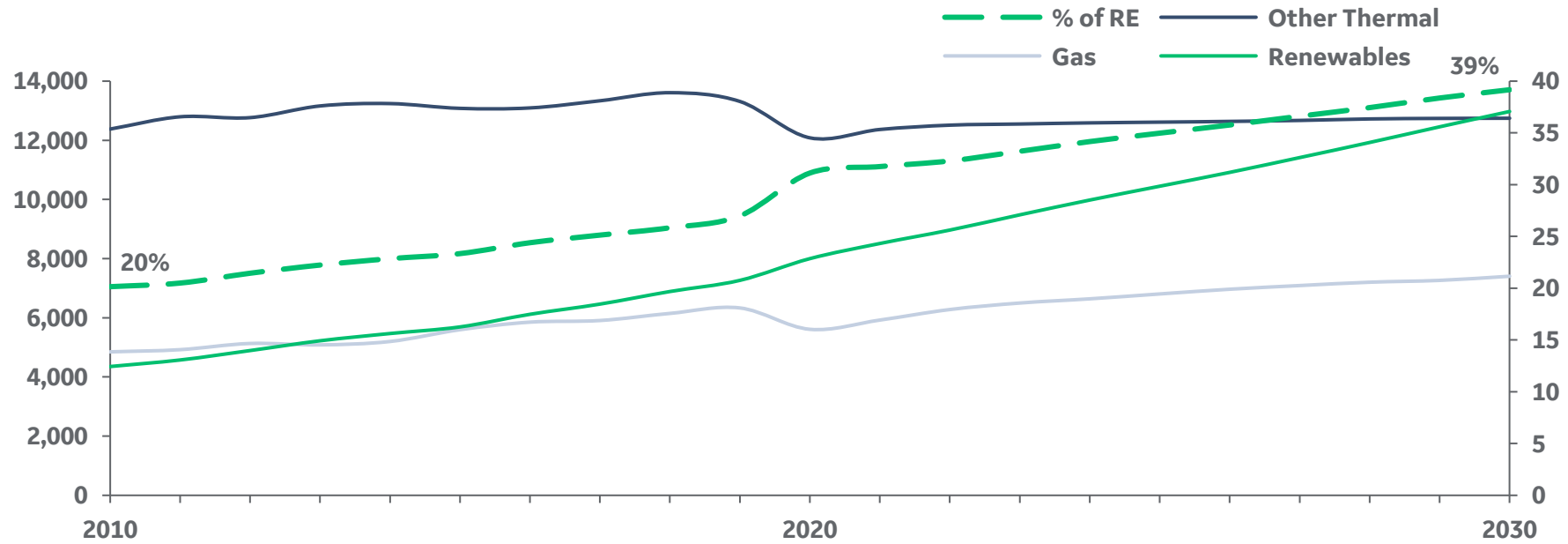
Source: BloombergNEF. Note: The map indicates for each country the technology with the lowest LCOE for new-built plants. The dollar numbers below the country name denotes the per MWh benchmark levelized cost of the cheapest technology. LCOE calculations exclude subsidies, tax-credit or grid connection costs. CCGT: Combined-cycle gas turbine.



## Global Renewable Energy Is Outpacing All Other Fuels



ELECTRICITY GENERATION BY SOURCE FUEL, IN TWH GROSS H

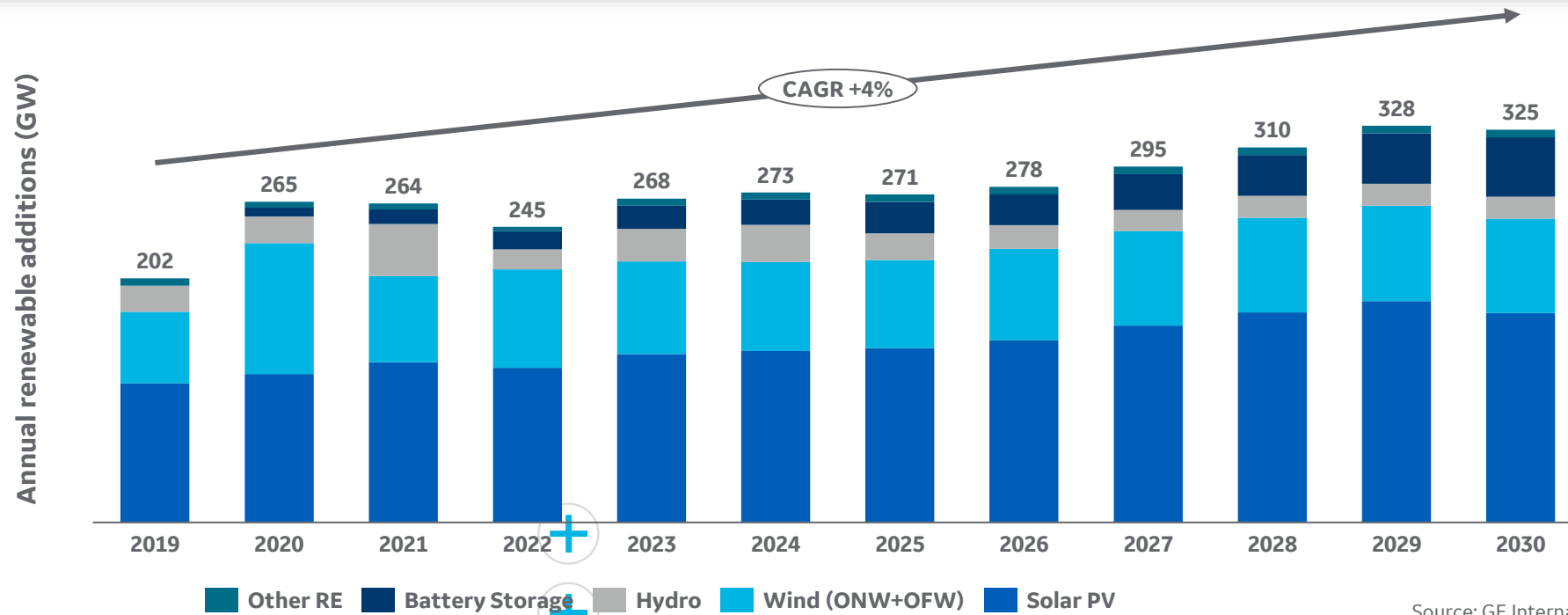


Source: GE Internal GPO'20





## Renewable Additions By Technology



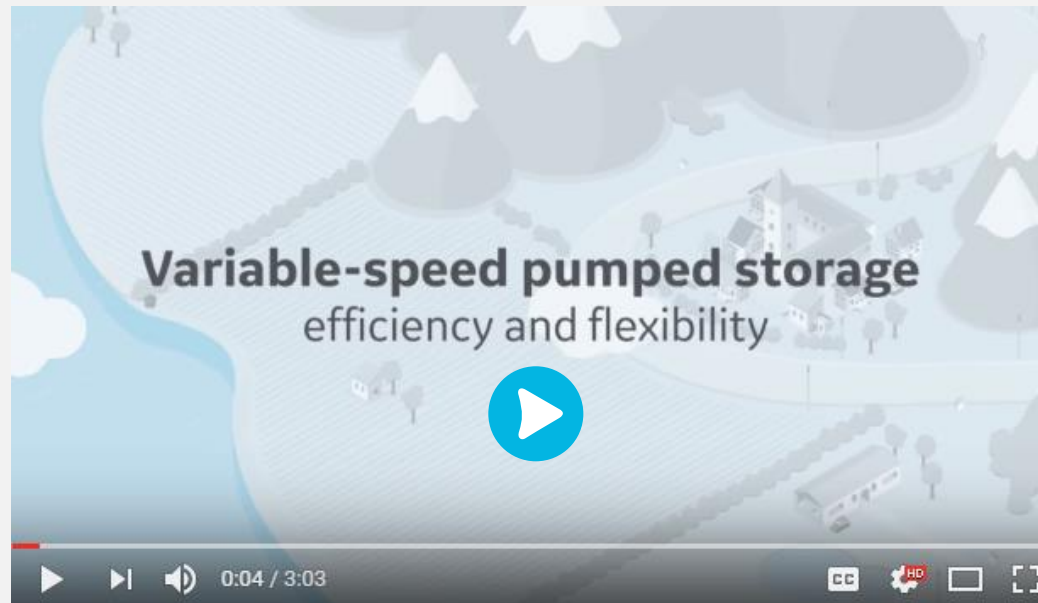
Source: GE Internal GPO'20



## WE ARE HYDRO ...

We believe that the combination of our extensive hydro and digital intelligence makes GE Renewable Energy well-suited to serve this intense & ongoing energy

### Variable-speed Hydro Storage



**Pascal Radue**  
Hydro  
Paris, France

they  
ibility

low head and run-of-river

put to best fit customer's

strengths around a high-  
nes - 2x5 kW or 2x7.5 kW),

of pumped hydropower  
plants equipped with our  
eds of our customers in a

**Services:** Our flexible & customized services solutions contribute to enhance the efficiency and extend the life of our customer assets. Our services offerings range from remote monitoring to full maintenance.

**Digital:** Digital is disrupting and transforming the electricity industry, and hydropower is no exception. GE's Hydro digital solutions help lower costs and improve the flexibility of hydro equipment.

The future of hydropower is definitely digital.













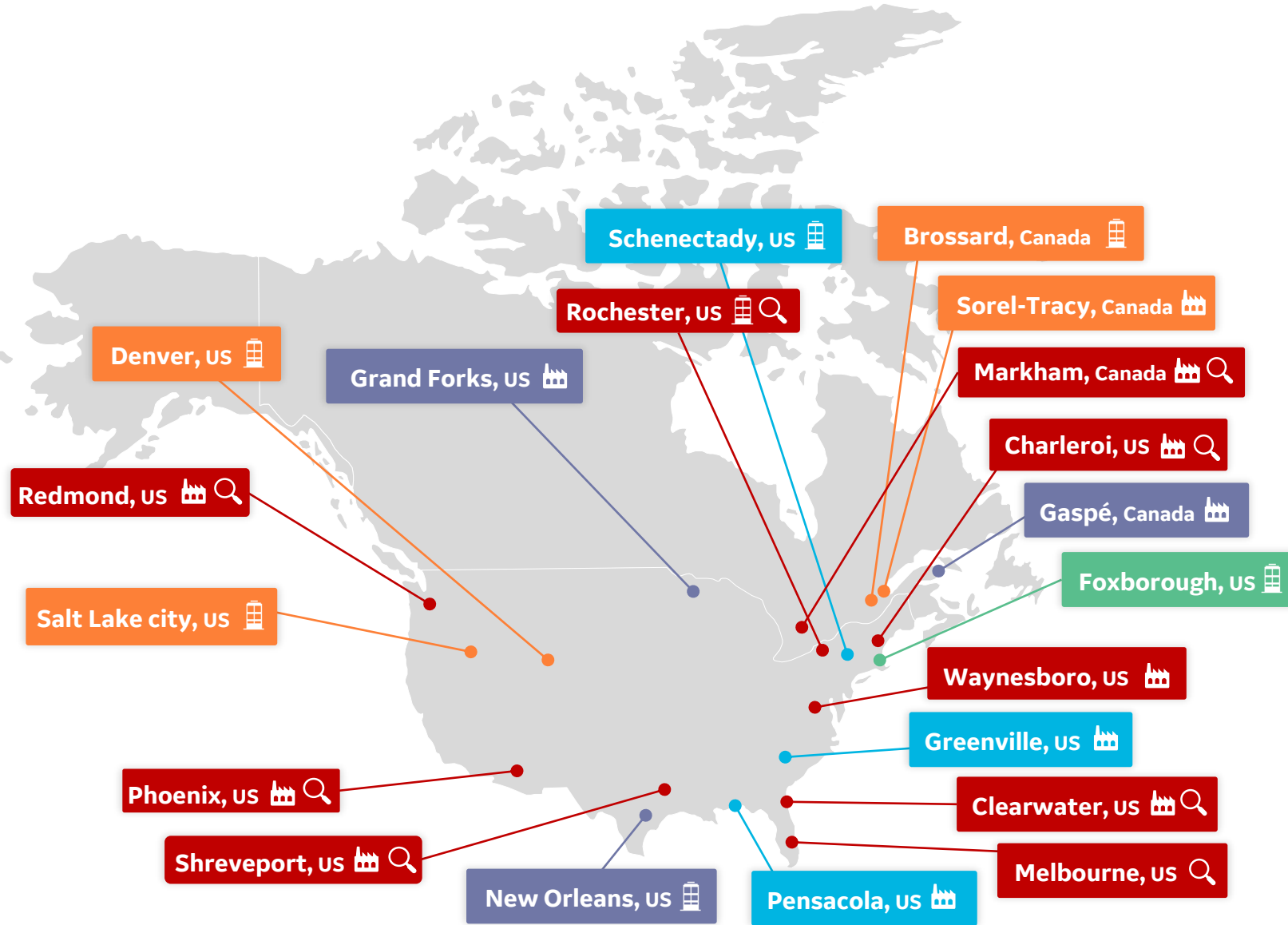
## GE's Installed Base\*

 **37 GW**

 **41 GW**

 **30 MW**

-  Onshore
-  Offshore
-  Hydro
-  LM Wind Power
-  Grid Solutions
-  Office
-  Factory
-  R&D Center















## GE's Installed Base\*

 **69 GW**

 **6,1 GW**



-  Onshore
-  Offshore
-  Hydro
-  LM Wind Power
-  Grid Solutions
-  Office
-  Factory
-  R&D Center





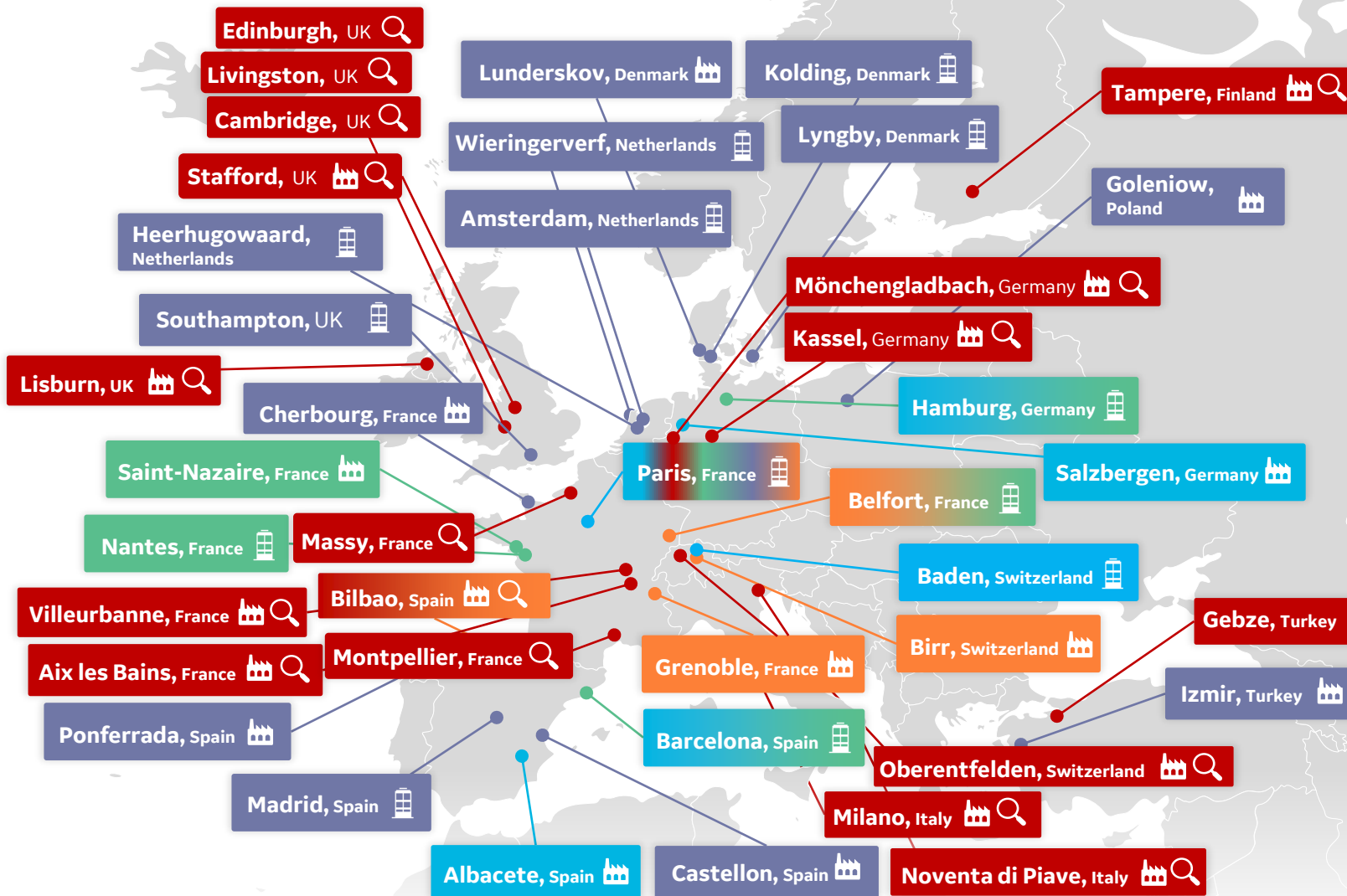
## GE's Installed Base\*

**146 GW**

**14 GW**

**0,6 GW**

- Onshore
- Offshore
- Hydro
- LM Wind Power
- Grid Solutions
- Office
- Factory
- R&D Center













## GE's Installed Base\*

 **93 GW**

 **7 GW**

 **18 MW**

-  Onshore
-  Offshore
-  Hydro
-  LM Wind Power
-  Grid Solutions
-  Office
-  Factory
-  R&D Center

