



# GE's Transatlantic Impact: Innovating Across Oceans

General Electric (GE) and its employees are leading the way towards a cleaner, healthier, and more connected world, thanks to innovative work underway in both the United States and Europe.

With more than 56,000 employees in the U.S. and 53,000 in Europe, GE's transatlantic partnerships have enabled exciting developments in the future of flight, precision healthcare, and energy that both strengthen the U.S.-European alliance and promote even greater economic growth and activity.

Together, GE employees in Europe and the United States are building a world that works, reimagining the power of flight, working towards a healthier world with more precise and efficient care, and advancing the future of energy.

## Future of Energy

### Leading the Energy Transition Across Borders

GE is working with countries and customers on both sides of the Atlantic to support the energy transition and roadmap to decarbonization through a combination of wind, gas, and a modernized grid.



#### Renewables

GE Renewable Energy's Haliade-X™ was designed by engineering teams in France, Spain, and GE's Global Research Center in the U.S., tested in the Netherlands, in the U.S., and in the U.K., and built in France. It is the world's most powerful offshore wind turbine built today and will power the world's largest offshore windfarm, Dogger Bank, in the Northeastern coast of England. It is also slated to power future U.S. windfarms, including two off the coast of New Jersey and Maryland, and one off the coast of Massachusetts.



#### Gas Power

GE has been delivering innovative energy solutions across Europe for more than 80 years, where GE equipment represents 90+ gigawatts (GW) of installed capacity. Last year, GE and Uniper began collaborating on the decarbonization of Uniper's gas-fired power plants and natural gas storage facilities, while GE engineers from both sides of the Atlantic have jointly developed critical upgrades for gas turbines that will help customers decrease emissions across Europe, including Uniper's Enfield power plant in the U.K., the first to feature GE's new GT26 HE (high efficiency) turbine upgrade.



#### Decarbonizing the Grid

GE's g<sup>3</sup> insulating gas offers an alternative to significantly reduce the grid's environmental impact compared to SF<sub>6</sub> gas and represents the culmination of a decade of research and development by GE teams in France, Germany, and Switzerland in collaboration with 3M in Saint Paul, Minnesota. To date, 23 leading utilities in Europe and Asia have chosen to install substation equipment featuring GE's g<sup>3</sup> gas in place of SF<sub>6</sub> insulated equipment, avoiding the addition of more than one million tons of CO<sub>2</sub> equivalent to the grid.



#### Nuclear Power

GE Hitachi Nuclear Energy has entered into agreements with Fermi Energia OÜ (umlaut) in Estonia and Synthos Green Energy in Poland to support the potential deployment of BWRX-300 small modular reactors.

# Future of Flight

## Smart, Sustainable Return to Flight

As the aviation industry returns to normal, GE Aviation employees are already hard at work innovating new solutions to help ensure a smarter, more sustainable future of flight.



### Revolutionizing Manufacturing

Assembled in [Lafayette, Indiana](#), and [Villaroche, France](#), the LEAP® engine was developed by GE and Safran Aircraft Engines through their joint company, CFM International, to power single-aisle commercial jets. It is the first engine to use additive manufacturing. Its fan blades are manufactured from 3D woven RTM (Resin Transfer Molding) carbon fiber composite and its fuel nozzles are 25 percent lighter than previous models and five times more durable than parts manufactured conventionally, meaning 500lbs (~227kg) less per engine. Both GE and Safran Aircraft Engines have added new manufacturing capability at sites throughout the U.S. and France, making a considerable combined investment in new facilities and capabilities.



### Powering More Sustainable Aviation

The LEAP® delivers a 15 percent improvement in fuel consumption and CO<sub>2</sub> emissions, compared to the engine it replaces, along with dramatic reductions in noise emissions and NO<sub>x</sub>. CFM has delivered more than 4,000 installed LEAP® engines to a total of 137 operators worldwide.

## Transatlantic Defense

GE Aviation employees in Lynn, Massachusetts and other GE Aviation facilities across the U.S. make engines that power military helicopters, fighters, and other aircraft used by North Atlantic Treaty Organization (NATO) allies including France, Germany, Italy, and the U.K., as well as other European countries like Austria, Switzerland, Sweden, and Finland.

# Future of Precision Health

## A Healthier World with More Precise and Efficient Care

GE Healthcare equipment is used in two billion patient examinations each year. At the start of the COVID-19 pandemic, GE Healthcare significantly increased and localized manufacturing, quadrupling ventilator production and launching an unprecedented global logistics push to ensure medical devices got to where they were needed most. At the same time, innovations like Command Center are helping healthcare providers maximize resources and improve patient care while minimizing burnout.



### Advancements in Innovation & Artificial Intelligence

GE Healthcare's [Command Center Software](#) is helping caregivers reduce length-of-stay and improve quality in more than 300 hospitals in the U.S., Canada, U.K., and the Netherlands.



### Advancements in Personalized Care

[GE Healthcare](#) recently [acquired French company Zionexa](#) to help enable more personalized health care in the treatment of breast cancer. Zionexa, a privately-owned company headquartered in Aubiere, France, employs 24 people in France and the U.S., all of whom will transfer to GE Healthcare. Additionally, GE Healthcare will hire approximately 70 new employees in the United States where the Pharmaceutical Diagnostics team is headquartered, in Marlborough, Massachusetts.

