



GE VERNOVA

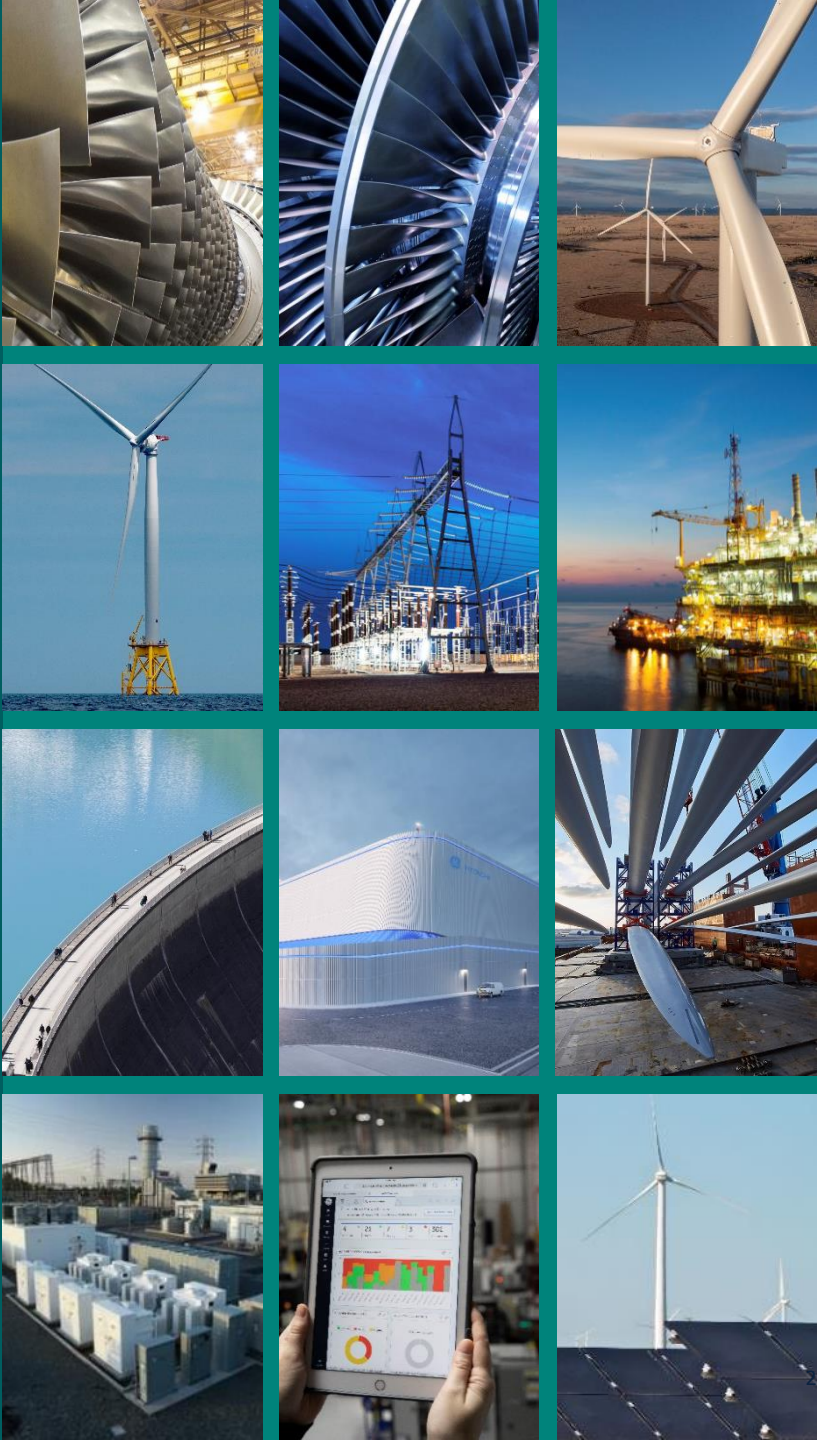
Our portfolio of energy businesses

GE Hydro Solutions Sustainability

Commitment and Actions

2023

Our Vision of Sustainability



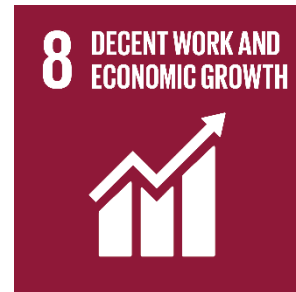


Pierre Marx

COO of GE Hydro Solutions

“ Being GE Hydro Solutions is about dedicating every day and every step of our work to the fight against climate change through our technologies and actions. Keeping this blue planet, the way it is for our future generations is our DNA. ”

United Nations Sustainable Development Goals

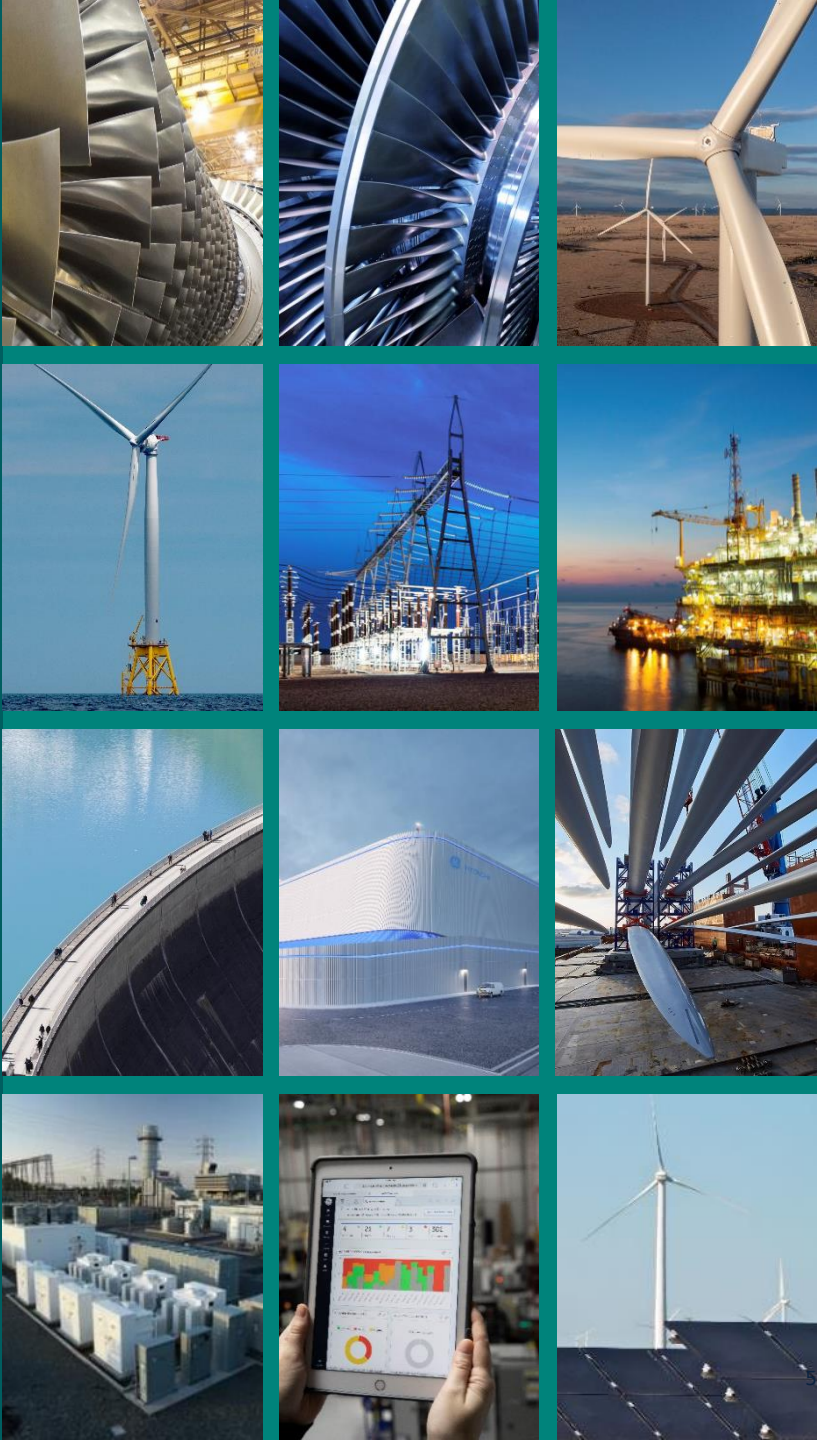


Our hydropower technologies help our industry play an essential role in **fighting climate change** (13), providing flood control, drought mitigation, resilient water resources and irrigation (6).

They **provide affordable renewable** (7) energy and integrate other clean energy solutions through **energy storage** (9).

Our products and services are designed to promote sustainability, respect for the **environment** (11), and ensure the **Health, and Safety** of our employees and the communities in which we work (8).

Our Commitment for Sustainability





Our Commitment

Our commitments

- ➔ Achieve **carbon neutrality for our direct activities and our energy consumption by 2030**
- ➔ **Reduce these related emissions by 50% by this date**

Our Actions



ACCOUNT

for our operational green-house gas emissions



REDUCE EMISSIONS

by finding efficiency opportunities within energy, waste, and mobility



POWER WITH RENEWABLES

by securing green electricity for our sites –onsite installations, PPAs, Environmental Attribute Certificates

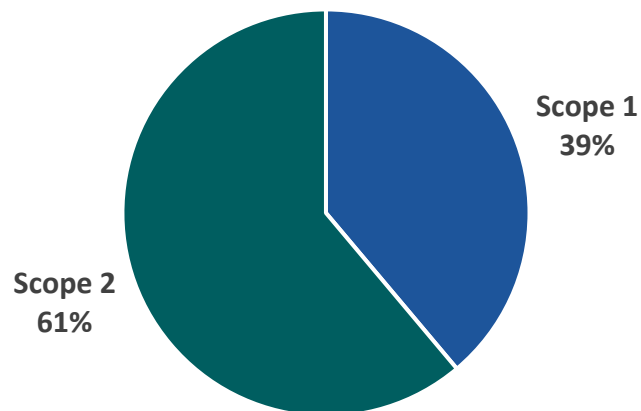


CAMPAIGN, ENGAGE, LEAD

by sharing what we learn, celebrating employee contributions and showcasing leadership

Our Actions for Sustainability

Measuring emissions



*Breakdown between GE Hydro
2022 scope 1 & 2 emissions*

- Use of **dedicated and existing tools**
- Training **the teams to declare their emissions**
- ✓ **Identify the carbon hotspots to take impactful actions**

Reducing emissions

- Since 2020, GE Hydro Solutions has invested **almost 1M USD into energy efficiency actions** across its sites.
- This represents **more than 5800 MWh/Year of energy savings.**

✓ **Reduce our GHG impact**



*Replacement of USP and CASLSP lighting by LED on
Taubate GE Hydro site (2021)*

Powering with Renewables



*Solar roof made of 13 000 solar panels
installed at GE Hydro Tianjin site*

- **Green electricity contracts** for Europe and North America
- Pan-European REN-wide virtual **Power Purchase Agreements**
- **Renewable Energy certificates** for other manufacturing sites
- ✓ **Reduce the impact of our purchased electricity**



Our Actions for Sustainability

Promoting sustainability

Within our Industry

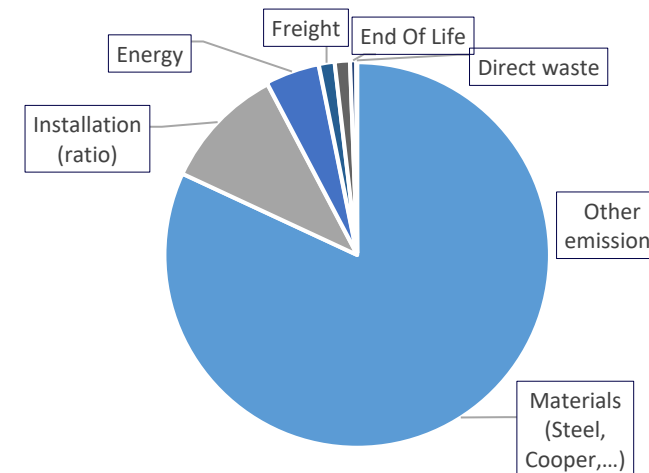
- The **certification of Pumped Hydro Storage Technology** with the solar impulse foundation
- **Signature of the San José Declaration** on sustainable hydropower and commitment to the Hydro Sustainability Standards
- **Work with IHA** on the promotion of hydropower

Within GE

- The **GE Green Team Network Employee Resource Group** supports and furthers GE sustainability goals with a grassroots-driven approach
- ✓ **Developing a sustainability culture within GE and our Industry**

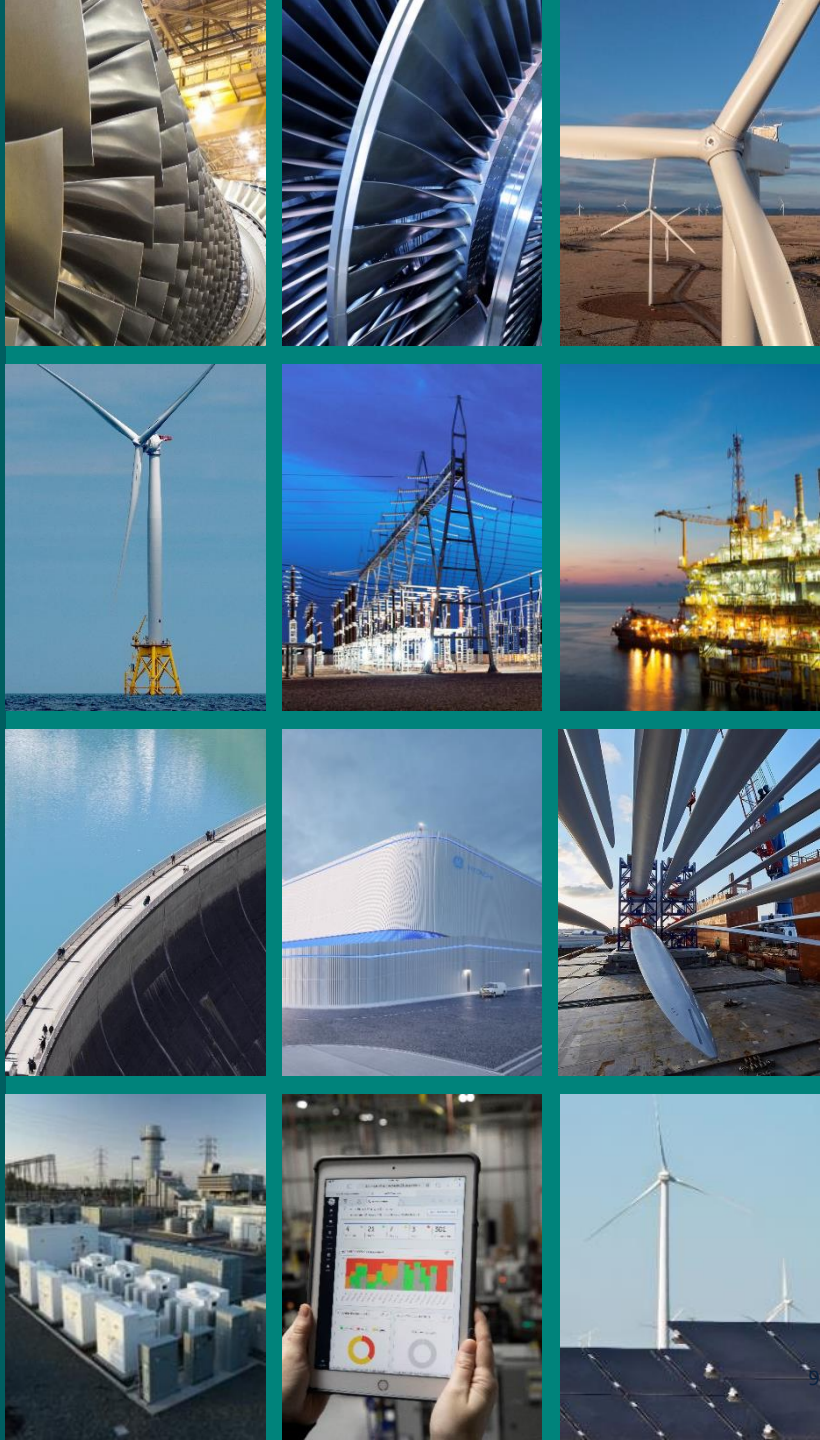
Developing sustainability actions

- To ensure that our projects meet sustainability standards, **we have integrated the Hydro Sustainability Standards into our business processes.**
- We carry out **Life Cycle Assessments** of products and projects.
- ✓ **Developing our capabilities and credibility**



Breakdown GE emissions for a hydro project

Our Product Sustainability



Product Sustainability – Four pillars

Decarbonization

- **Decarbonize our products** through energy efficiency actions and green energy contracts for all our sites
- **Measure of the carbon footprint** of our products

Circular Economy

- **Minimize resources used during the design process**
 - Additive manufacturing
 - Digital simulation
- **Extend the life of our products**
 - Design improvements
- **Extend the life of hydropower plants**
 - Diagnostic and repair tools
- **High level of recyclability**

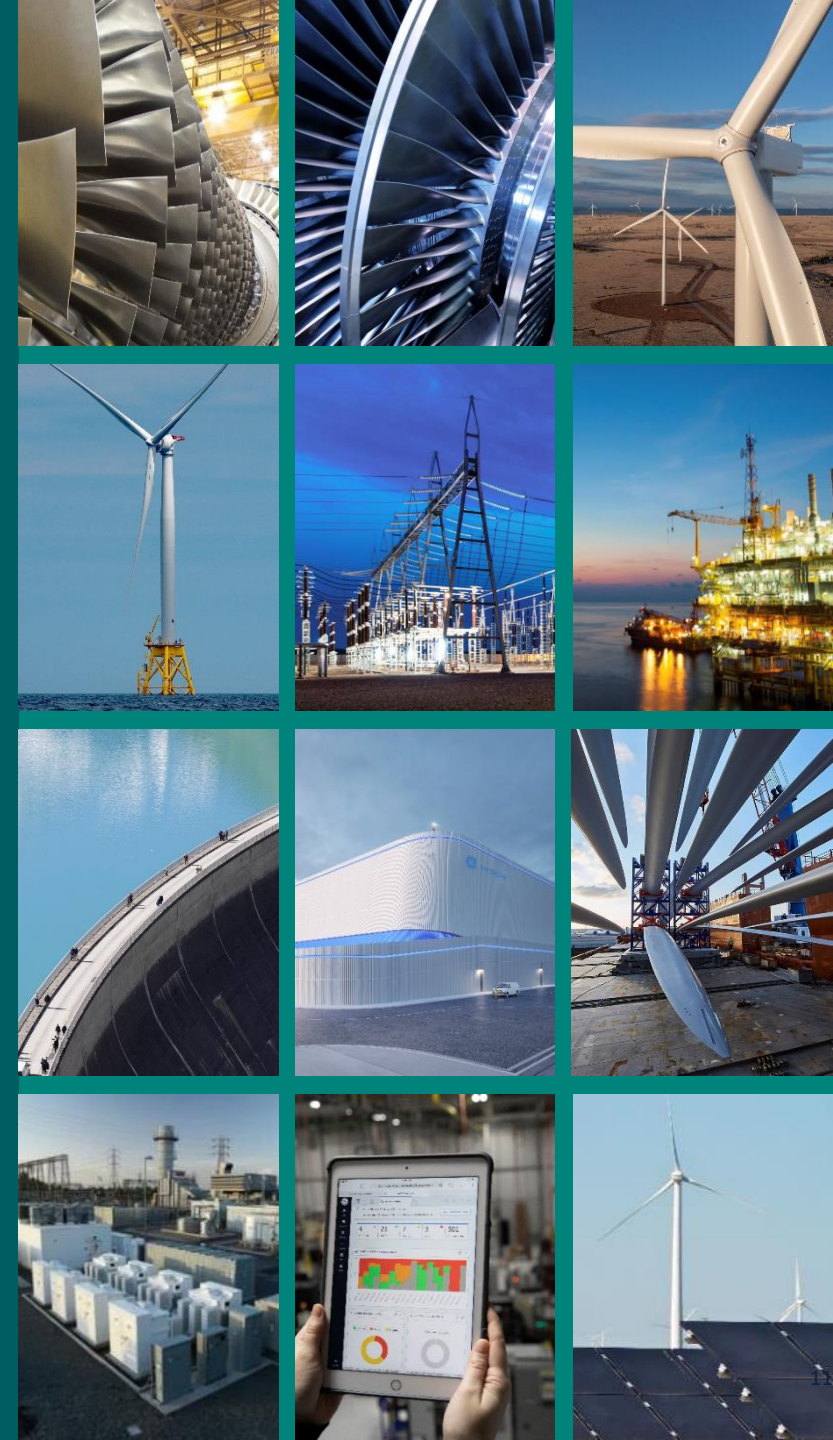
Value Creation

- **Improve the flexibility of our products**, easing the integration of intermittent renewable
- **Control and coating technologies** to improve performance and lifetime

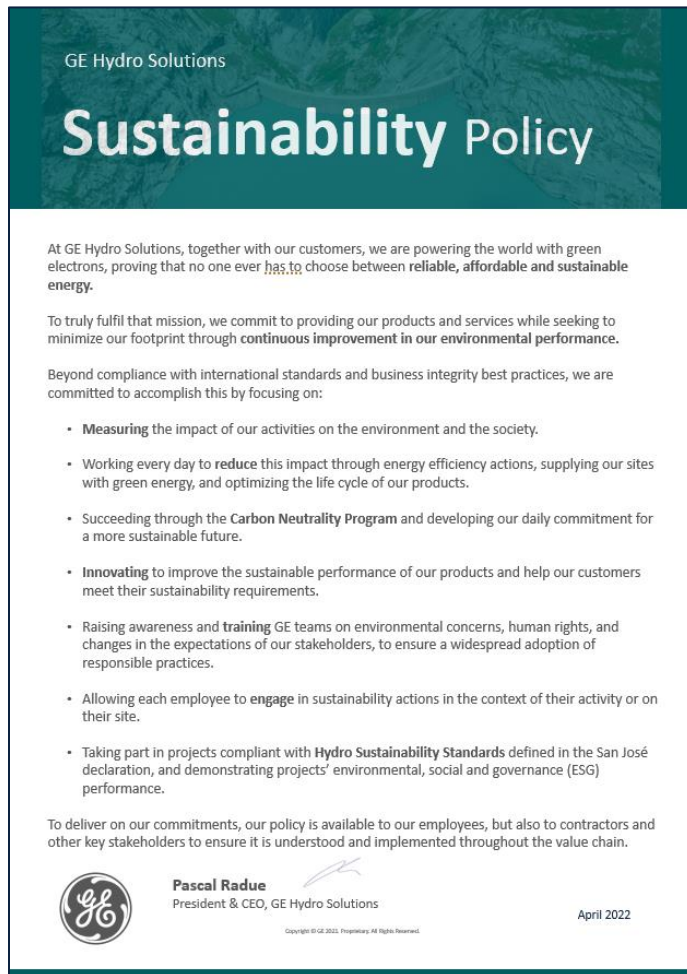
Biodiversity & Eco-systems

- **Fish friendly technologies** to protect biodiversity
- **Oil-free technologies and biodegradable oils** to protect aquatic ecosystems
- **Dissolved oxygen runners** to protect downstream habitats

Documents & Contacts



GE Hydro Solutions Sustainability documents



GE Hydro Solutions

Sustainability Policy


At GE Hydro Solutions, together with our customers, we are powering the world with green electrons, proving that no one ever has to choose between reliable, affordable and sustainable energy.

To truly fulfil that mission, we commit to providing our products and services while seeking to minimize our footprint through continuous improvement in our environmental performance.

Beyond compliance with international standards and business integrity best practices, we are committed to accomplish this by focusing on:

- **Measuring** the impact of our activities on the environment and the society.
- Working every day to **reduce** this impact through energy efficiency actions, supplying our sites with green energy, and optimizing the life cycle of our products.
- Succeeding through the **Carbon Neutrality Program** and developing our daily commitment for a more sustainable future.
- **Innovating** to improve the sustainable performance of our products and help our customers meet their sustainability requirements.
- Raising awareness and **training** GE teams on environmental concerns, human rights, and changes in the expectations of our stakeholders, to ensure a widespread adoption of responsible practices.
- Allowing each employee to **engage** in sustainability actions in the context of their activity or on their site.
- Taking part in projects compliant with **Hydro Sustainability Standards** defined in the San José declaration, and demonstrating projects' environmental, social and governance (ESG) performance.

To deliver on our commitments, our policy is available to our employees, but also to contractors and other key stakeholders to ensure it is understood and implemented throughout the value chain.

 **Pascal Radue**
President & CEO, GE Hydro Solutions

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[GE Hydro solutions Sustainability Policy](#)



GE Hydro Solutions Sustainability

Our role for a sustainable world

How our corporate sustainability commitments and our products align with the **United Nations Sustainable Development Goals**



UN Sustainable development goals

Our hydropower technologies help our industry play an essential role in **fighting climate change (13)**, providing flood control, drought mitigation, resilient water resources and irrigation (6). They provide **affordable renewable energy (7)**, and integrate other clean energy solutions through **energy storage (9)**. Our products and services are designed to promote sustainability, respect for the **environment (11)**, and ensure the **Health, and Safety** of our employees and the communities in which we work (8).

Our sustainability journey

Since our first carbon related program launched in 2019, our renewable energy businesses have shown that accounting and reducing our greenhouse gas emissions is a long-term concern for the company. **GE has now committed to achieving carbon neutrality for its direct activities and its energy consumption (scope 1&2*) by 2030, and to reduce these related emissions by 50% by this date.**

GE is reducing emissions through operational efficiencies and securing renewable electricity supply for all GE Renewable Energy sites throughout its wind, hydropower, hybrids and grid businesses. Furthermore, GE Hydro Solutions is committed to **the promotion of sustainability standards within the industry.**

*The GHG Protocol Corporate Standard classifies a company's GHG emissions into three scopes. Scope 1 emissions are direct emissions from owned or controlled sources. Scope 2 emissions are indirect emissions from the generation of purchased energy. Scope 3 emissions are all indirect emissions (not included in scope 2) that occur in the value chain of the reporting company, including both upstream and downstream emissions. ghgprotocol.org

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[GE Hydro solutions Sustainability Journey](#)



GE Hydro Solutions Product Sustainability

Our product sustainability vision

Complying with the most stringent legal and environmental requirements, GE Hydro Solutions' product sustainability is based on our **extensive experience** and **rigorous standardized processes**, strengthened by advanced **digital tools**. The continuous sustainability improvement of our products is driven by a will to increase **product efficiency and life expectancy**, and to reduce its impact on wildlife and the environment.

The four sustainability pillars of our products

Decarbonization

- Decarbonize our products through energy efficiency actions and green energy contracts for all our sites
- Capacity to measure the carbon footprint of our products

Biodiversity and eco-systems

- Fish-friendly technologies to protect biodiversity
- Oil-free technologies and biodegradable oils to protect aquatic ecosystems
- Dissolved oxygen runner-technology to protect downstream habitats

Circular Economy

- Minimize resources used during the design process
 - Additive manufacturing
 - Digital simulation
- Extend the life of our products
 - Design improvements
 - Coating technologies
- Extend the life of hydropower plants
 - Diagnostic and repair tools
- High level of recyclability

Value creation

- Improve the flexibility of our products, easing the integration of intermittent renewable
- Develop control and coating technologies to improve performance and lifetime

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[GE Hydro solutions Product Sustainability](#)

Contact informations

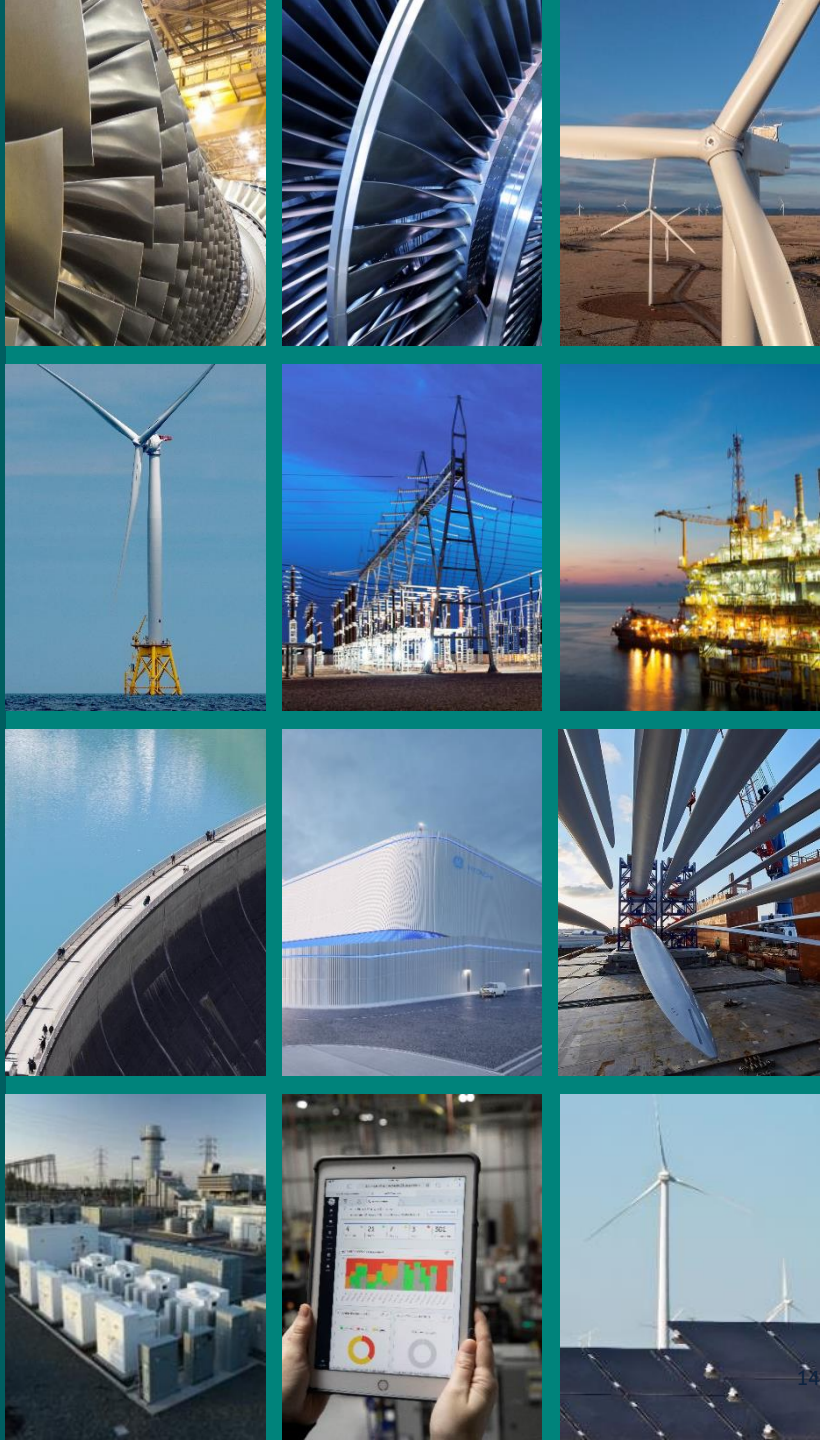


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Overview of our Sustainability Journey



Overview of our sustainability priorities

All actions presented in this document are part of a global strategy to make our business more sustainable. The diagram below presents our progress and future actions for the continuous improvement of our sustainability actions.





GE VERNOVA

Our portfolio of energy businesses