GE Hydro Solutions Sustainability
Commitment and Actions
2023
Our Vision of Sustainability
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.  

Pierre Marx
COO of GE Hydro Solutions
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

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

Powering with Renewables

- 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

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

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

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

GE Hydro Solutions - Sustainability vision and actions
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

GE Hydro Solutions - Sustainability vision and actions
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 or 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 vision and actions

GE Hydro Solutions Sustainability Policy

GE Hydro Solutions Sustainability Journey

GE Hydro Solutions Product Sustainability

Presentation Template Title Example
Contact informations

Solène MICHAUD
Hydro Sustainability Leader
Email: solene.michaud@ge.com
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.