

HITACHI

A man in a dark jacket and cap stands in a long, dimly lit server room aisle, holding a laptop. The room is filled with rows of server racks on both sides, illuminated by blue light. The perspective is looking down the aisle, creating a sense of depth.

Hitachi Energy

Welcoming the Electrical Era: Building resilient, sustainable energy infrastructure for AI-powered data centers

Per Nissen, Local Sales Manager, Hitachi Energy
Denmark

Data Center Forum 2025, October 2nd

Datacenter Forum 2025

Hitachi Energy at a glance

Datacenter Forum 2025

About Hitachi Energy

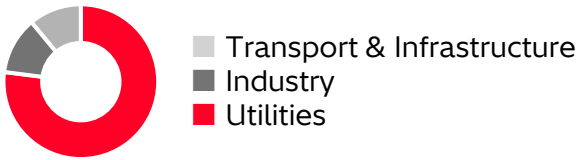
HITACHI



50,000+ employees	150 nationalities
60 countries	100+ years of heritage
1,800+ field engineers	2,600+ R&D experts
~\$16 billion USD business revenues	

Business Units	Grid Integration
	Grid Automation
	High Voltage Products
	Transformers
	Service

Customers



Offering

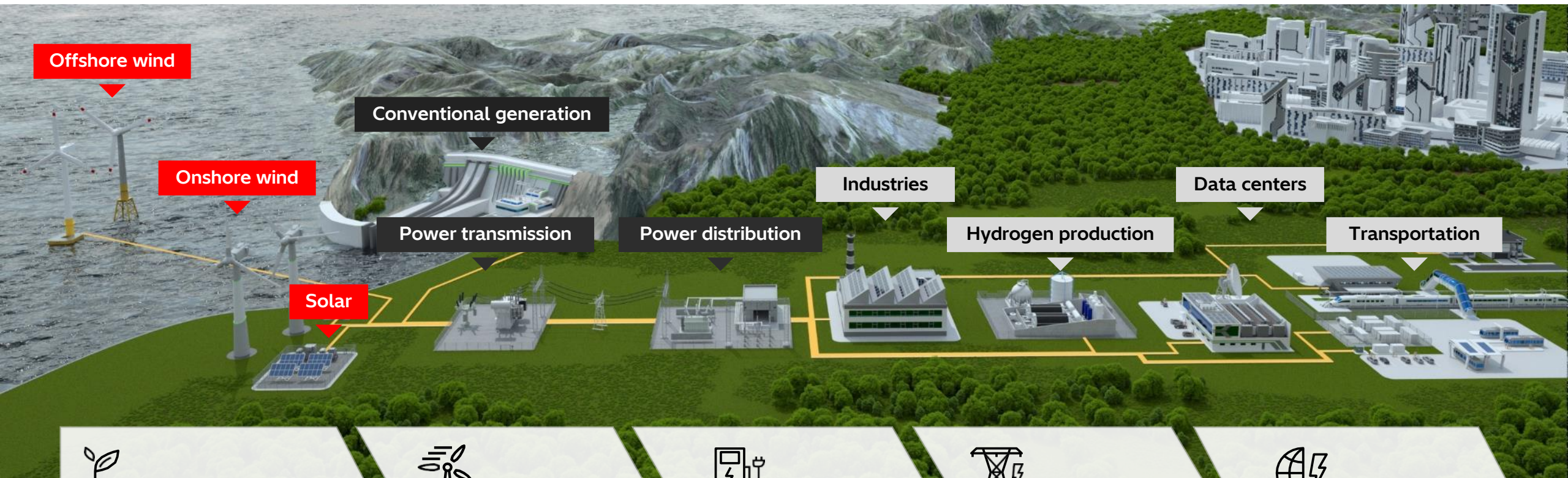


Geographies



We serve customers across the energy value chain

■ Power generation ■ Power transmission and distribution ■ Energy intensive industries



Transform through
low-carbon technologies
and digital solutions



Accelerate the shift
to renewable power
generation



Decarbonize
through
electrification



Expand and strengthen
the transmission and
distribution grid



Enable sustainable
energy fuels

Hitachi Energy in Data Centers

We secure reliable power for your data center with an integrated eco-friendly design, so, a sustainable future is in your control.

01 Ensuring continuous operation and uptime through reliable solutions

02 Standardized designs enabled for local deployments on a global scale

03 Low environmental impact through sustainable and efficient solutions

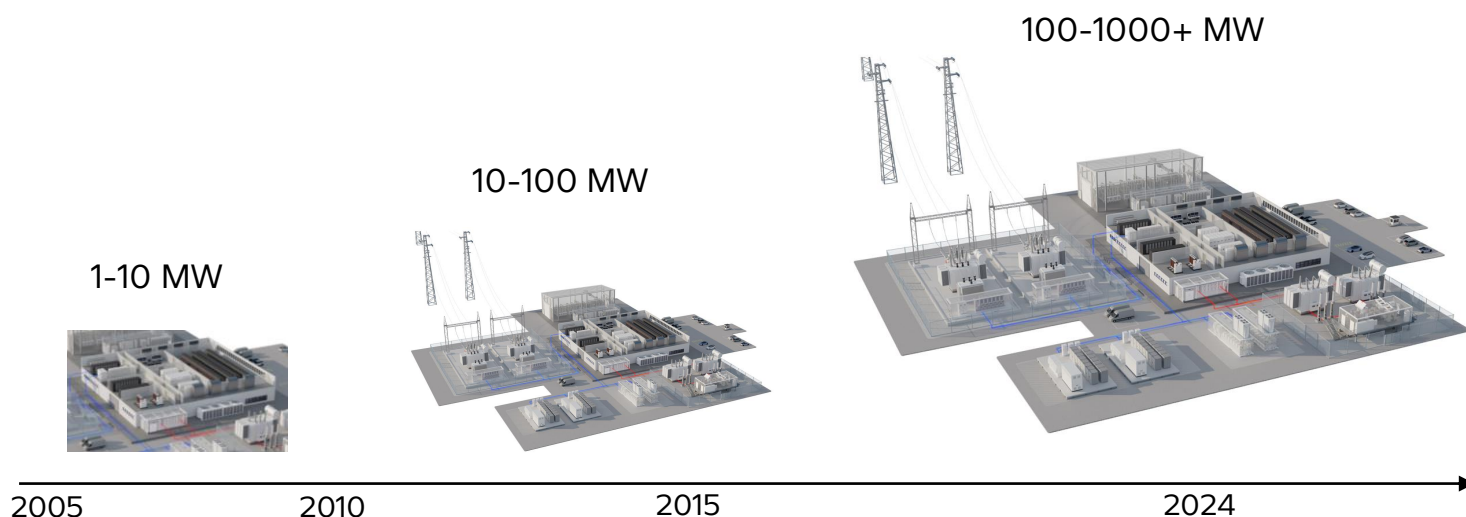
30%
reduction in footprint of
grid connection solutions

40%
reduction of installation
time through modular
design

156 tons
of CO₂ saved with
prefabricated, modular
metal enclosures

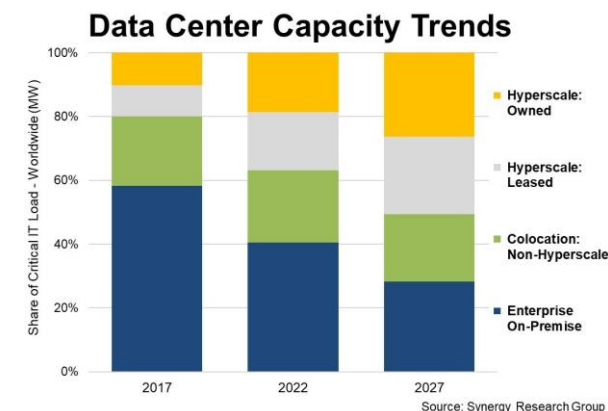
Data centers are becoming larger

What is a total power of a large data center?



Data centers **over the years are getting larger:**

- > 10 ago large data center was 1-10 MW
- 5-10 years ago 10-100 MW
- Today large data center is even 1GW or more

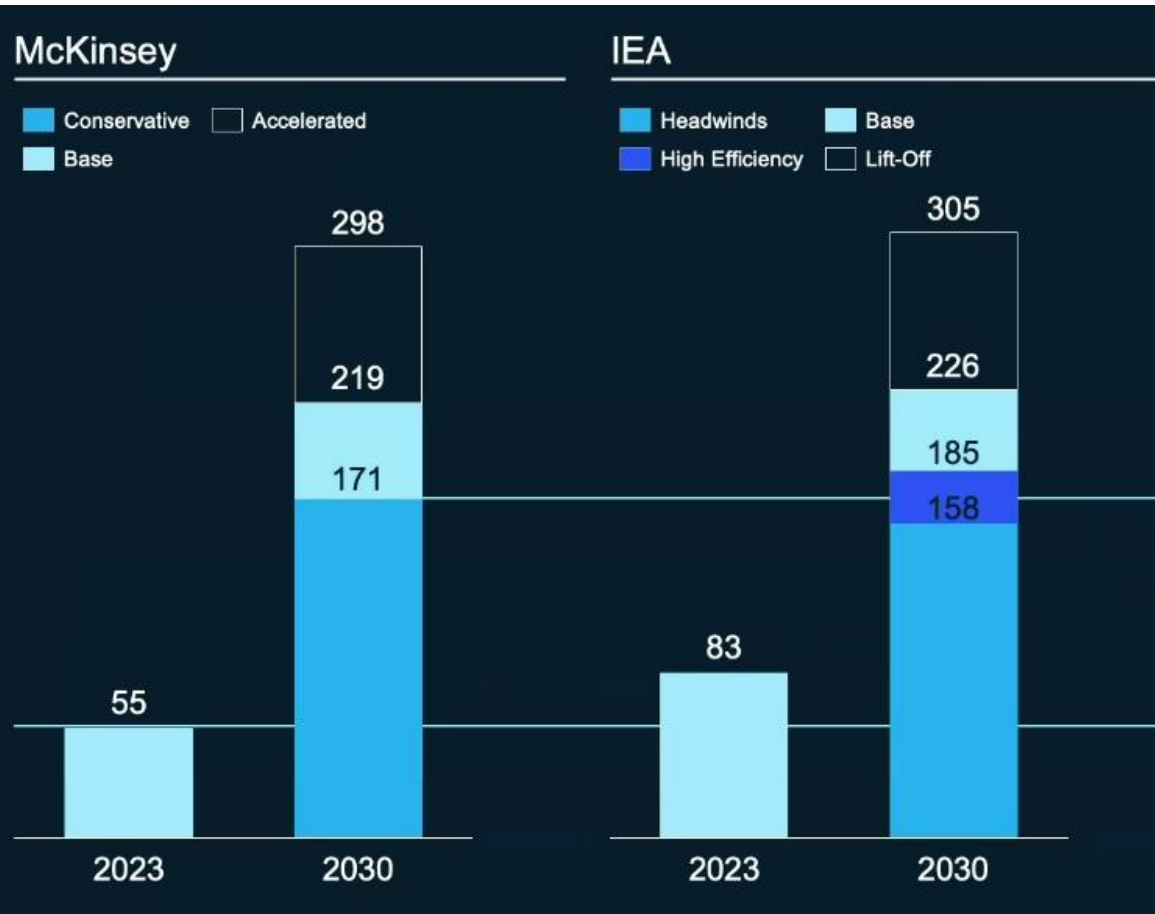


Hyperscale providers are building largest data centers

Global colocation providers are also building very large data centers, especially if they are single tenant data centers

HV and MV connections are becoming increasingly necessary

Comparison of forecast growth of computation Power demand [GW]



- Market challenges shape “**Accelerated**” vs. “**Lift Off**” scenarios
- Not all projects will materialize—**uncertainty is high**
- Power grid and **infrastructure constraints** (e.g., transformers, switchgear)
- **Rapid tech shifts**: GPUs, software, cooling, efficiency
- **AI adoption** and business growth remain **unpredictable**
- **Economic, regulatory, and regional factors** impact progress

Today and Future Data Center Needs and Challenges



Surging electricity demand

- Global data center electricity demand could double by 2026 compared to 2022
- Continued strong growth expected through 2030
- Estimated CAGR: 10%+



Drivers of growth

- Artificial Intelligence
- Cryptocurrencies
- Digitalization across industries



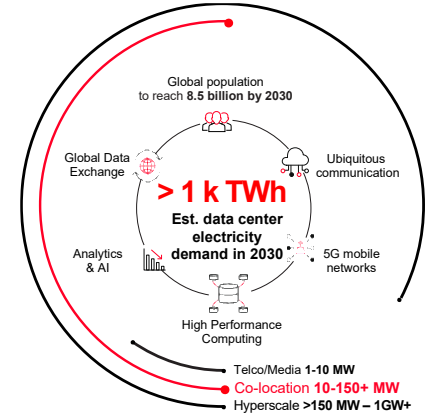
Sustainability pressure

- Utility power access is increasingly constrained



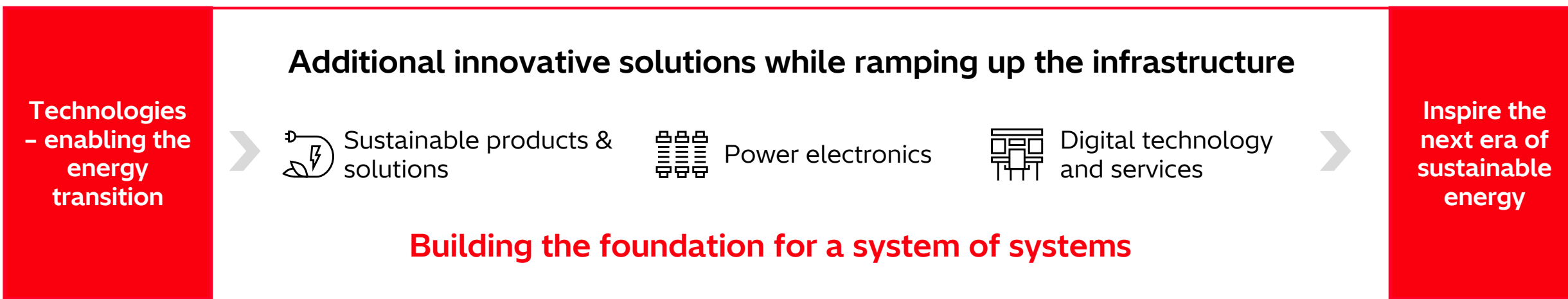
Call for innovation

- A new approach to energy supply is essential
- Rethink infrastructure to support future demand and sustainability



The energy transition needs technologies, services, and partnerships

Urgent power system ramp-up: The technology is available to start now

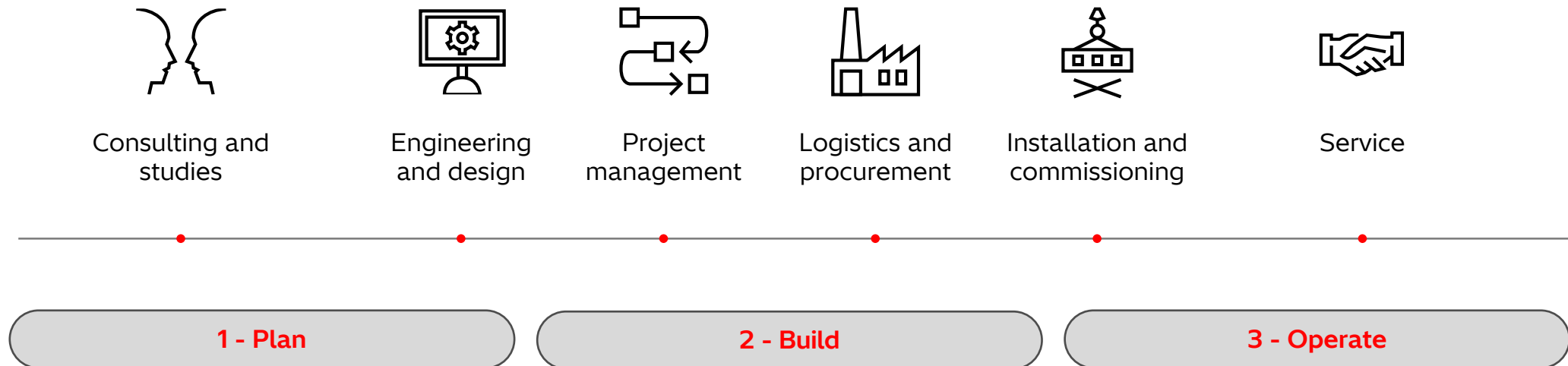


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Data Center Solutions

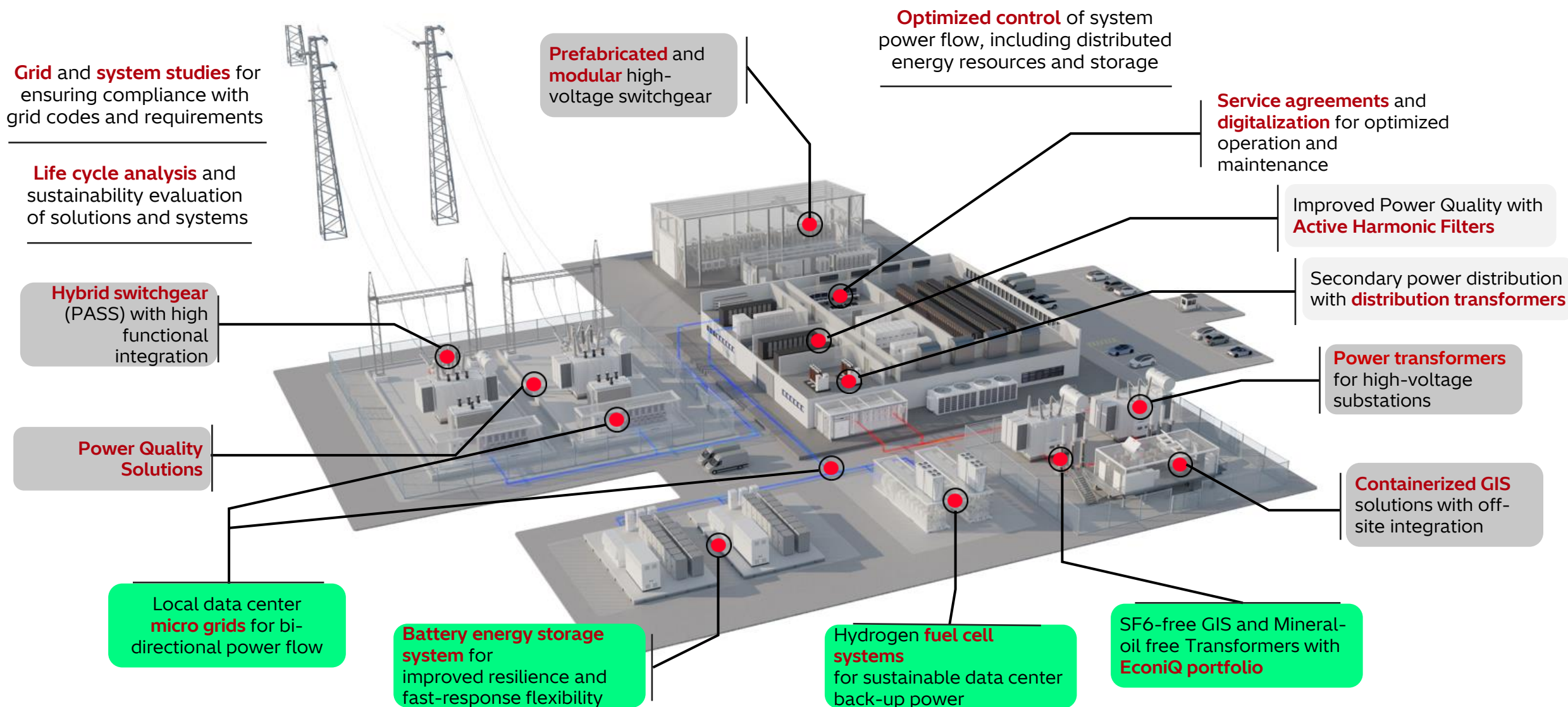
Your partner to connect to HV Grid: Plan – Build – Operate

Masters in project execution from the very early stage



Supporting you throughout the entire project lifecycle

Hitachi Energy Data Center Solutions



Footprint: Installed data center projects

Europe

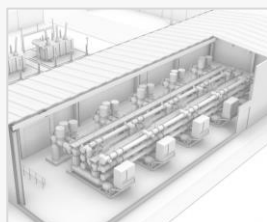
Main Customers:

- ✓ Hyperscalers: under NDA
- ✓ Colocations companies: under NDA

Voltages:

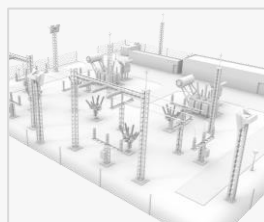
- ✓ 400 kV
- ✓ 220 kV
- ✓ 150 kV
- ✓ 132 kV
- ✓ 110 kV
- ✓ 66 kV
- ✓ MV

✓ GIS

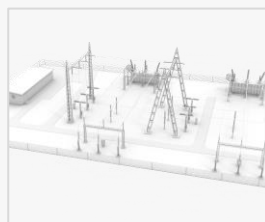


HV Technology:

✓ Hybrid (PASS)



✓ AIS

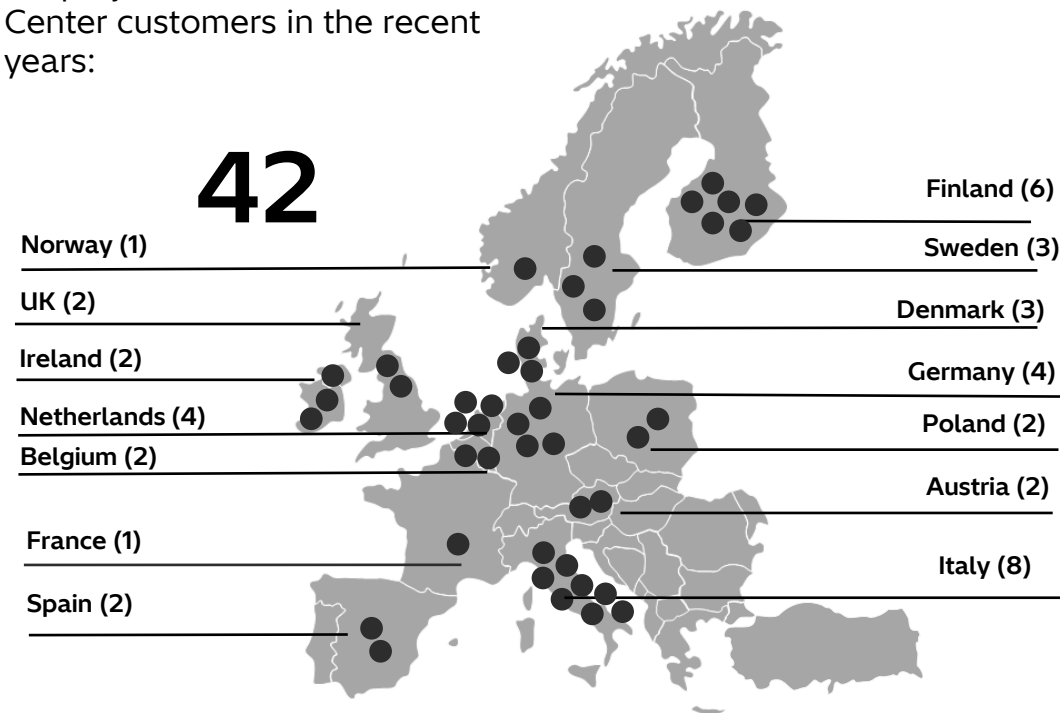


What we offer:

- ✓ Global / Regional player
- ✓ Manufacturer: secure supply chain
- ✓ Early engagement with customers: partner approach
- ✓ Grid experts: long experience with local Utilities (TSOs / DSOs)
- ✓ BIM and Modular/Prefab solutions to allow fast response & delivery
- ✓ Strong Country units + cross-country collaboration (EU HUB)

Projects :

HV projects **DELIVERED** to Data Center customers in the recent years:



Safety first

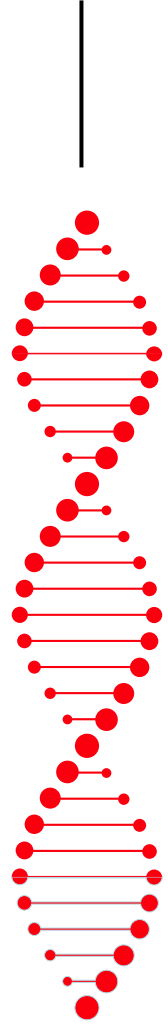
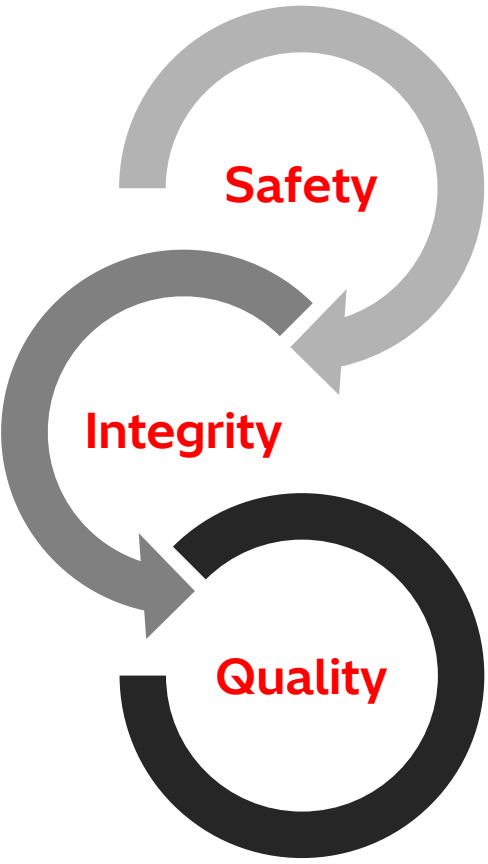


On quality



On time

Safety, Integrity, and Quality
is part of our DNA



Sustainability Strategy



Planet

Accelerating the clean energy transition while boosting circularity and biodiversity:

- Climate
- Circular economy
- Biodiversity and ecosystems



People

Supporting a safe, inclusive, equitable, and just energy transition for today's generations and those to come:

- Health and safety
- Diversity, equity, and inclusion (DEI)
- Human rights and social contributions

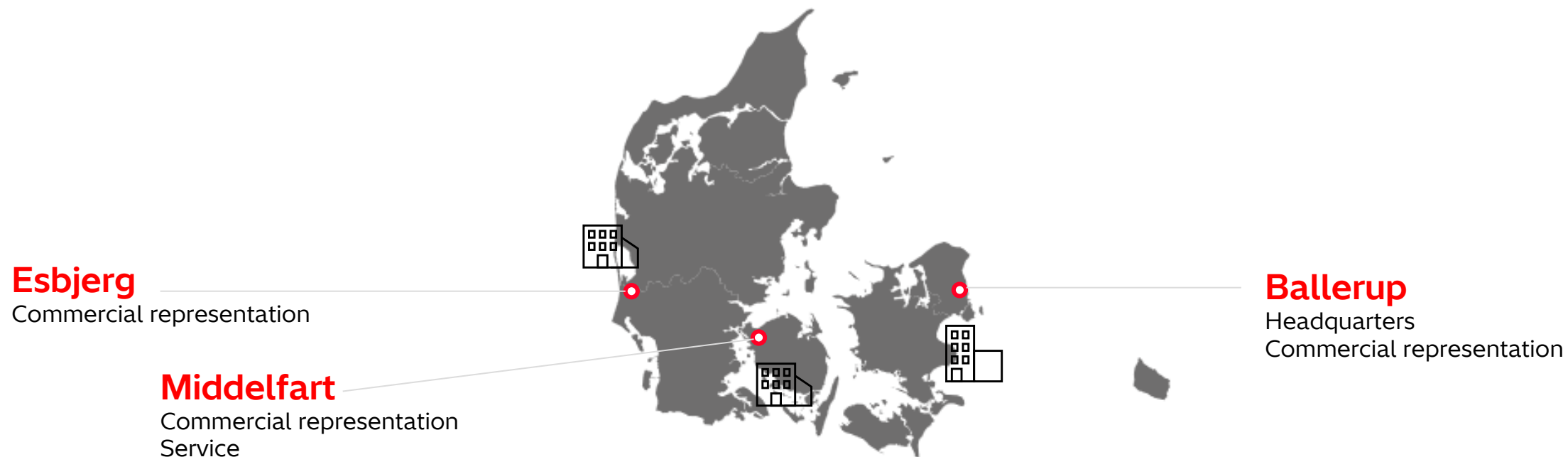


Principles

Taking responsibility for our company governance and employee behaviors, as well as our value chain:

- Ethics and integrity
- Sustainable supply chain
- Behaviors and values

Hitachi Energy in Denmark - Overview



Ballerup Headquarters



5 business units



80+ employees



3 locations



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