

HITACHI

Hitachi Energy

'Kurs na Offshore'

12/02/2026

12 February 2026



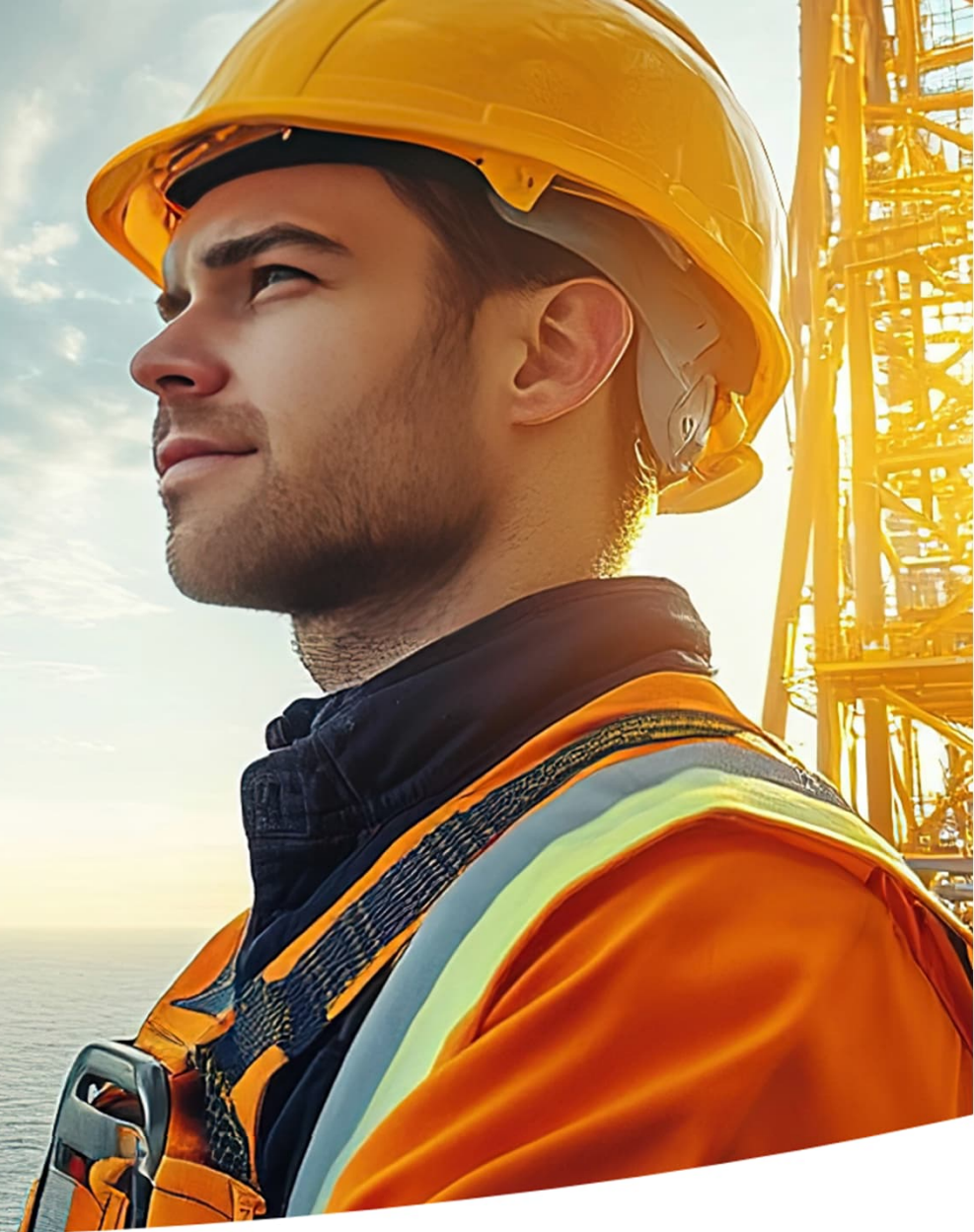


Projekty morskich farm wiatrowych Bałtyk

Hubert Krukowski

Tomasz Komalski

Hitachi Energy

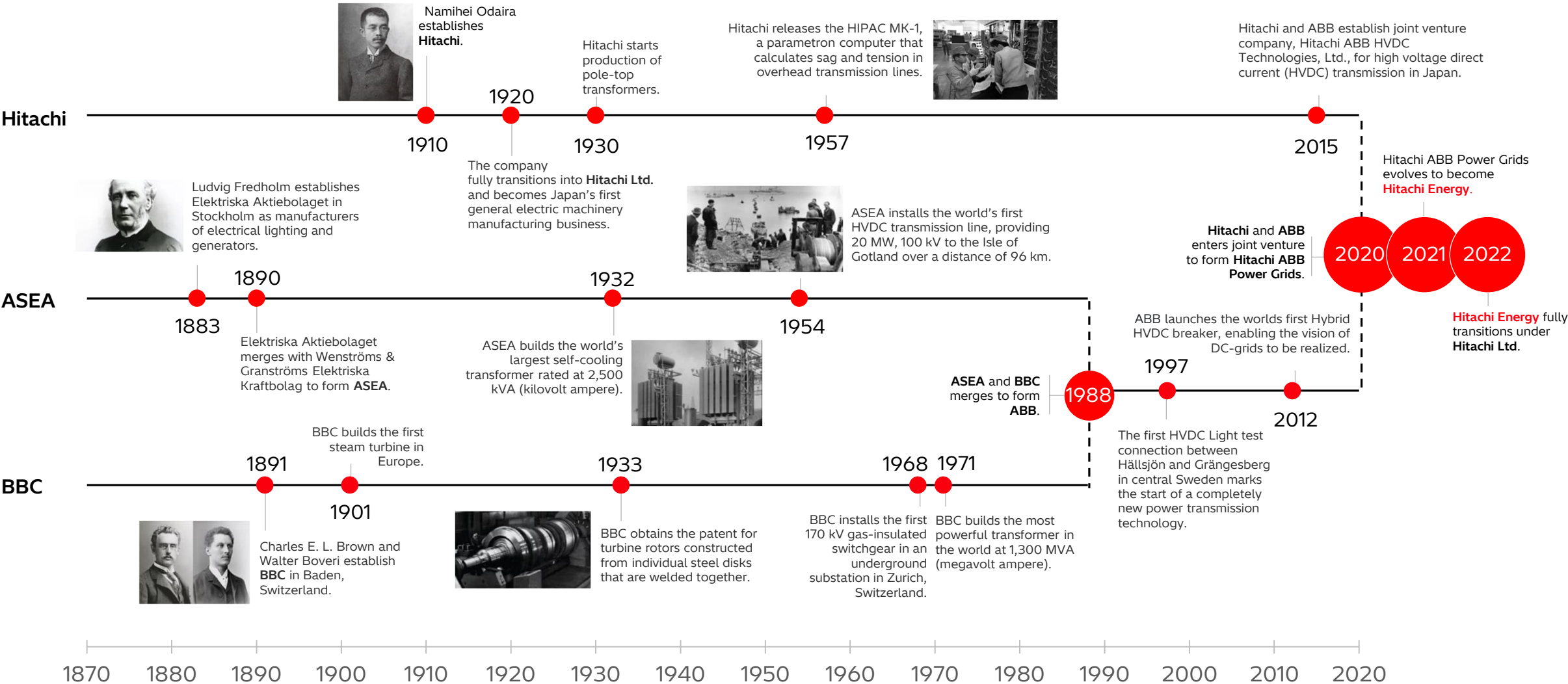


ORGANIZATORZY PROGRAMU

Gdańsk, 12 lutego 2026

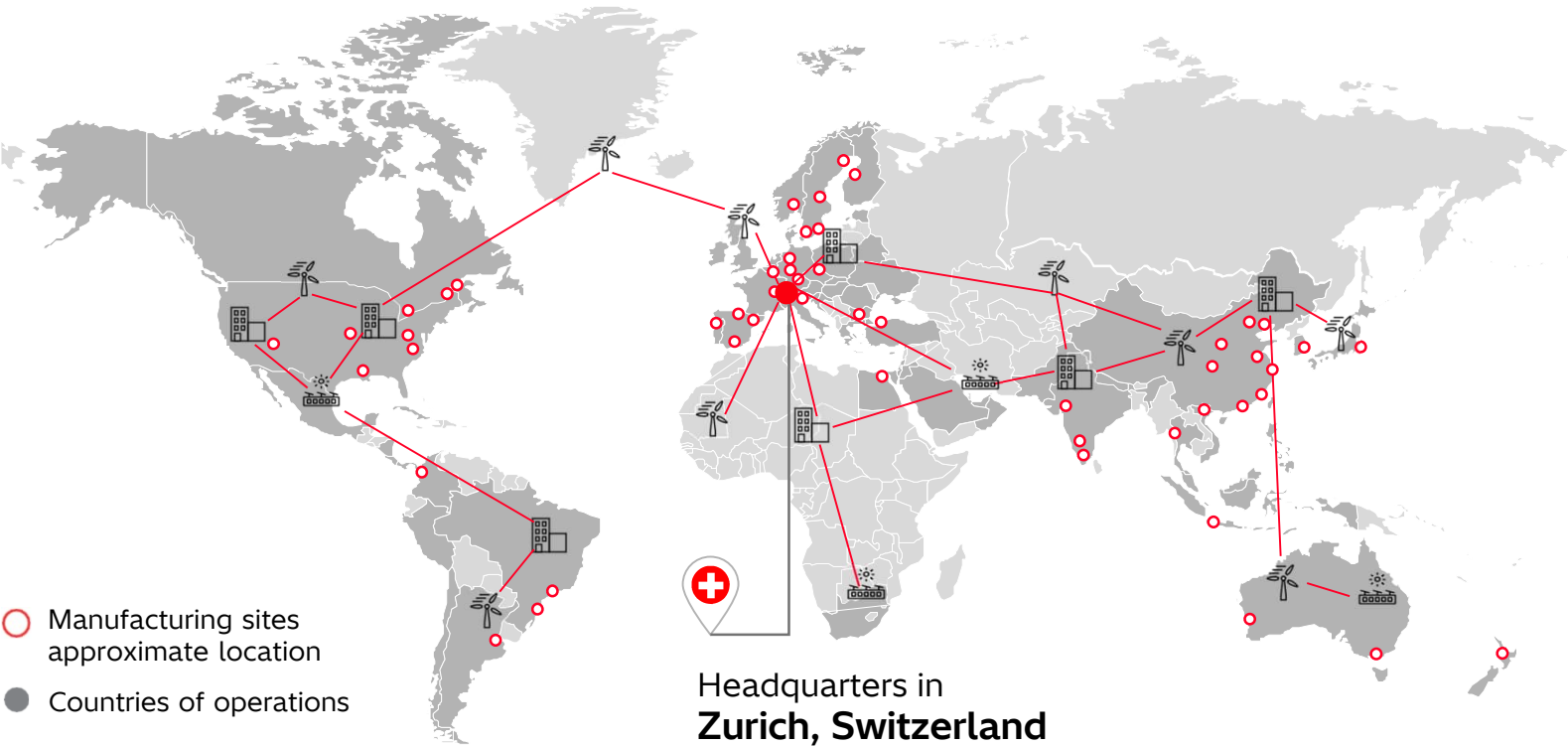


Our Story 1883 - 2022



About Hitachi Energy

HITACHI



~45,000 employees	150 nationalities
60 countries	250 years' heritage combined
1,800+ field engineers	2,600+ R&D experts
~\$13 billion USD business volumes	

Business Units	Grid Automation
	Grid Integration
	High Voltage Products
	Service
	Transformers

Customers



Offering



Geographies







 **3,800+** employees

 **Regional sales offices:**
Lublin, Katowice, Poznan,
Gdansk, Wroclaw


 **Factories** in Lodz and
Przasnysz

 **Service** High Voltage
Products and Transformers

 **Headquarters** in Warszawa

 **Technology Center**
in Krakow and Lodz
Research Center in Krakow

 **Common Shared Services
Center** in Krakow

 **Engineering** Centers in
Warszawa and in Krakow

Five Business Units

Grid Automation

Grid Integration

High Voltage Products

Service

Transformers

Research Center in Krakow

28 years of innovation

HITACHI

One of six global research centers delivering disruptive technologies for stronger, smarter and greener grid

45 world-class scientists

20% researchers from abroad

20% females

~38 years average age

70% PhD & DSc

600 m² dedicated research laboratories

Experimental areas



Material science and additive manufacturing



Novel numerical simulations methods



Noise mitigation and vibroacoustic



Machine learning & AI, advanced analytics



Cybersecurity



Software architecture



Power system autonomous operation

Technology Center in Krakow

Technological backbone of
Hitachi Energy

HITACHI

The largest single development unit of
Hitachi Energy **in the world**

4% PhD degree or
higher

12% non-Polish
employees from **18**
countries

21% females

~35 years
average age

400+ professional employees

Focus areas of close cooperation with business units:

Development of new products
and systems

Digital solutions

Software

Cybersecurity

Figures include BU High Voltage Products and High Voltage Products
professionals working for BU Service

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Hitachi Energy: connecting > 54 GW offshore power to the grid

Global: #1 Supplier Globally for Offshore Wind products and systems

Global: 2 State-of-the-art centers of excellence (Germany & Sweden) dedicated to support Offshore Wind globally

UK: Europe first multi-terminal HVDC connection

UK: World's largest wind farm using HVDC technology (3.6 GW) and AC (1.2GW) connections

USA: Over 22GW in the projects pipeline, including equipment orders for very first substation in the country for a utility scale project

USA: Enabling more than 2 GW AC offshore wind connections

Portugal: World's first WindSTAR® transformer for floating turbines

France: First HVDC connections for RTE

Denmark: First multiterminal offshore HVDC

Japan: actively supporting projects in partnership with Hitachi

China: Market leader in transformers, 66 kV breakers and Dry type transformer for floating turbines

South Korea: early engagement including complete FEED

Taiwan: country's first 3 offshore substation (2.2 GW) and associated power quality equipment. Local transformers assembly

The Netherlands: HVDC connections for Tennet

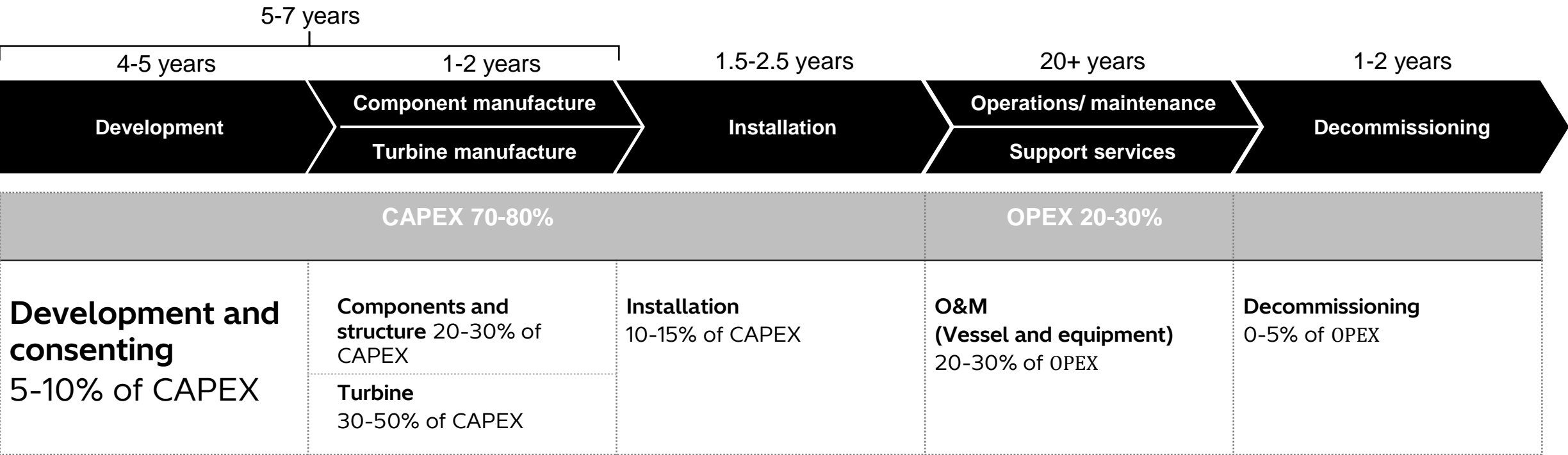
Germany: Over 3GW of HVDC offshore wind connections

Poland: enabling 5 GW AC offshore connection including complete 1,4 GW AC system

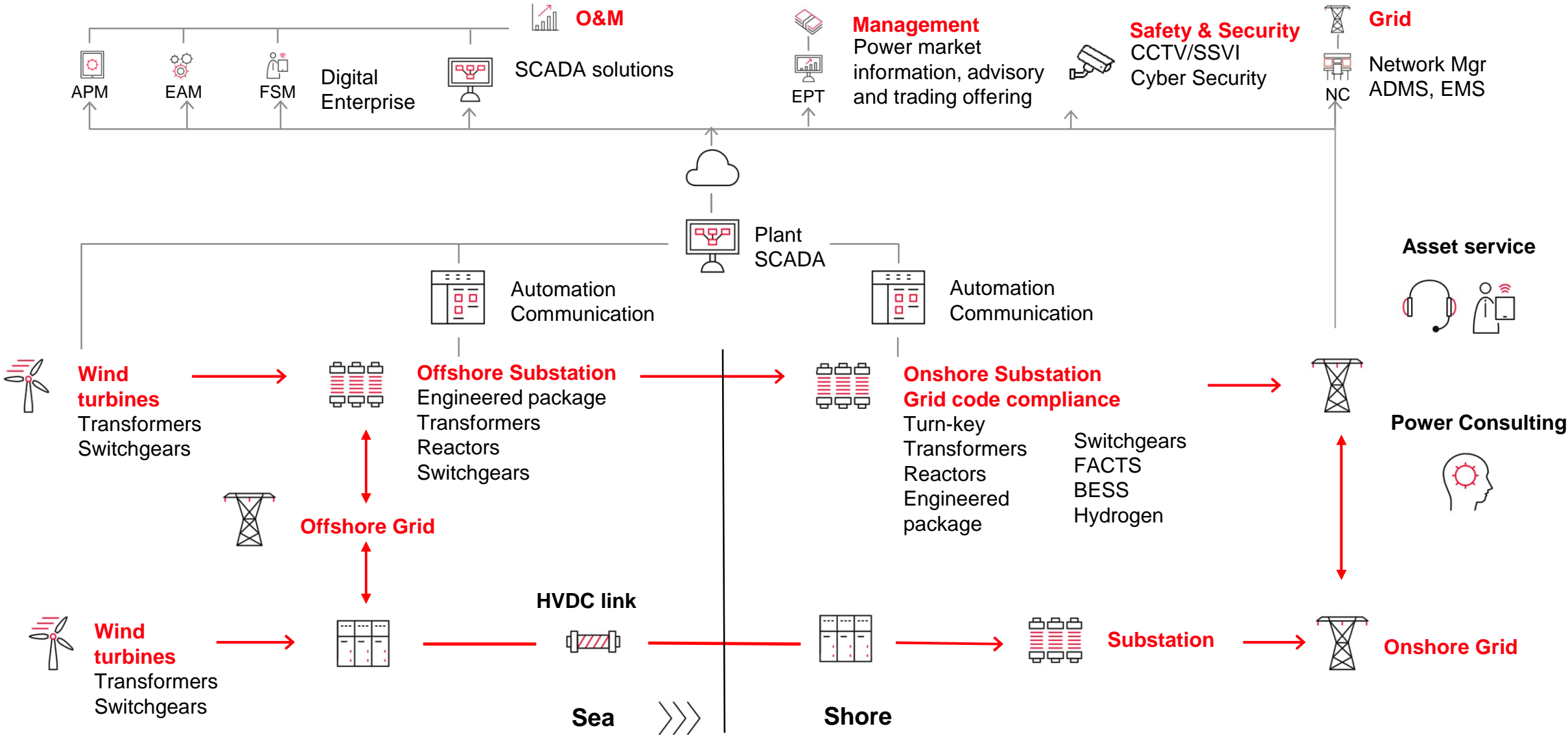
Offshore wind project lifecycle

Starting to collaborate from early project development increases synergies, decreases risks

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An offshore wind project is a long-term endeavour with major risks and constraints during entire project life cycle



Accelerating Offshore Wind in Poland: Equinor's Baltyk II & III

Baltyk 2 and 3 represent some of the largest infrastructure projects in Poland's history. Their execution will significantly enhance the country's energy security and independence while creating jobs in a developing sector.

Michał Jerzy Kołodziejczyk,
Country Manager Equinor Poland



Challenge

- The Baltyk II and III offshore wind farms, with a combined capacity of 1.44 GW, required a highly secure and integrated control system to ensure safe, reliable, and efficient operation of unmanned platforms. The challenge involved maintaining cyber-secure communication across multiple substations and providing local lifecycle support for commissioning, operation, and maintenance.

Solution

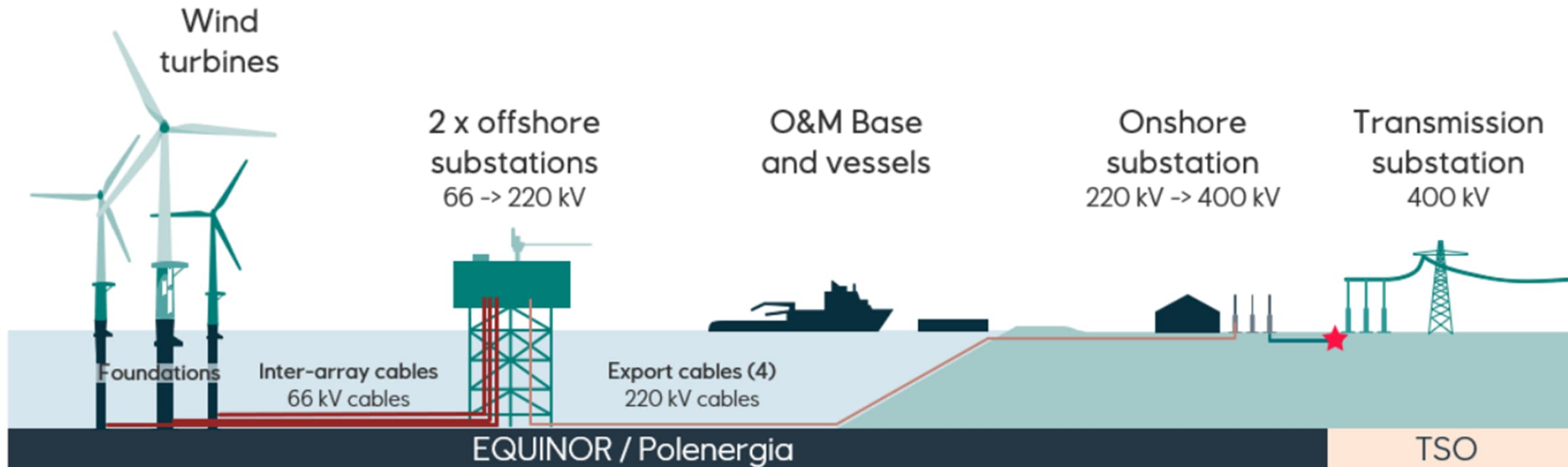
- Unified SCADA system for both offshore platform and onshore substations supervising and controlling various wind farm systems.
- Complete telecommunication system incl. MPLS-TP system, telephony system, VHF/UHF and TETRA Radio System, meteorological weather station, AIS, CCTV system, access control & intruder system and general alarm system.

Impact

- Centralized control simplifies operations across offshore and onshore assets
- Unmanned platform capability reduces operational costs and improves safety
- Cyber-secure automation and communication
- Local lifecycle support throughout complete project life cycle

Bałtyk 2 & Bałtyk 3 – delivery of Hitachi Energy scope

Design and execution of the grid connection to the offshore wind farm



- Design with system analysis
- Electrical equipment and systems for offshore power substations 66kV/220kV
- Construction of two onshore power substations 220kV/400kV in turnkey formula
- Control system, automation and communication systems

Service

Trusted lifecycle partner
for a sustainable, flexible, and
reliable future

Maintaining and modernizing the world's
largest installed base through world-class service
solutions enabled by digital technologies.

#1
installed base

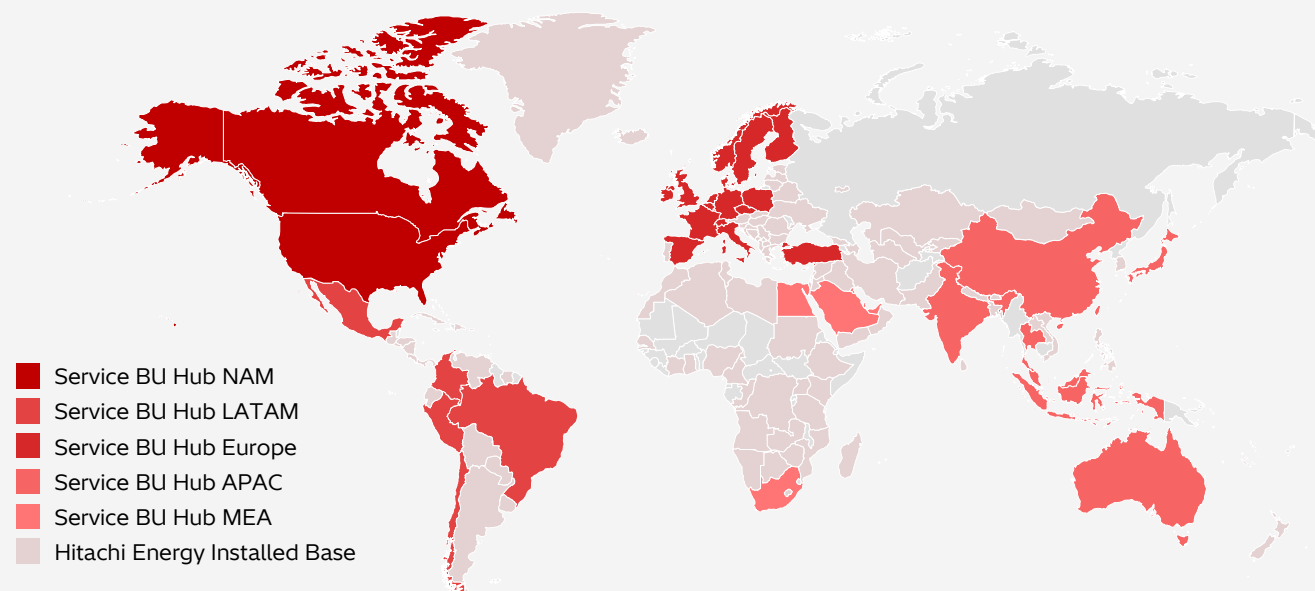
~5,500
Service employees
across the company

140+
countries with
installed base

24/7/365
Customer Connect
Center

500,000+
transmission assets
installed globally

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Providing lifecycle services for the breadth of the transmission and
distribution (T&D) value-chain with segment and application
specific solutions

Utility

Industry

Renewables

Data centers

Microgrids

Rail

HVDC

Power quality

EV charging

Software and
automation



Kurs na Offshore Sesja III Offshorowy Panel Ekspercki



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