



MARINE MANAGEMENT
GOSHEN

FROM HAMBURG TO GLOBAL H₂ HUBS



PRESENTED BY

HEE JIN EUN-HOFMANN



WAVES OF ENGINEERING PROGRESS

FOUNDED 2012; 50-YEAR ENGINEERING HERITAGE THROUGH
ING. BUERO H. HOFMANN (EST. 1974).

WE DELIVER SCALABLE, FINANCE-READY INFRASTRUCTURE
PROJECTS FOR INDUSTRIAL DECARBONIZATION —HELPING HEAVY
INDUSTRIES TRANSITION TO HYDROGEN AND CARBON CAPTURE
WITH PRECISION AND REALISTIC BANKABILITY.

STRATEGIC HAMBURG LOCATION → EU FUNDING ACCESS +
MARITIME CLUSTER.



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STRATEGIC PARTNERSHIPS

CARBON CAPTURE • WIND-POWER OEMS • BATTERY
MANUFACTURERS • FUEL-CELL DEVELOPERS • RESEARCH
INSTITUTES



OUR WORK BRIDGES THE GAP BETWEEN VISION AND
EXECUTION, PARTNERING WITH GOVERNMENTS, ENGINEERING
FIRMS, AND TECHNOLOGY PROVIDERS.

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TECHNOLOGY STACK



SOLAR & WIND GENERATION

HYDROGEN PRODUCED VIA ELECTROLYSIS IS THE TRADITIONAL PRODUCTION CHOICE THROUGH RENEWABLE ENERGIES.

CARBON NEUTRAL • INFRASTRUCTURE DEPENDENT • HIGH COST



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Green Hydrogen



No CO₂ emissions
(renewable energy)

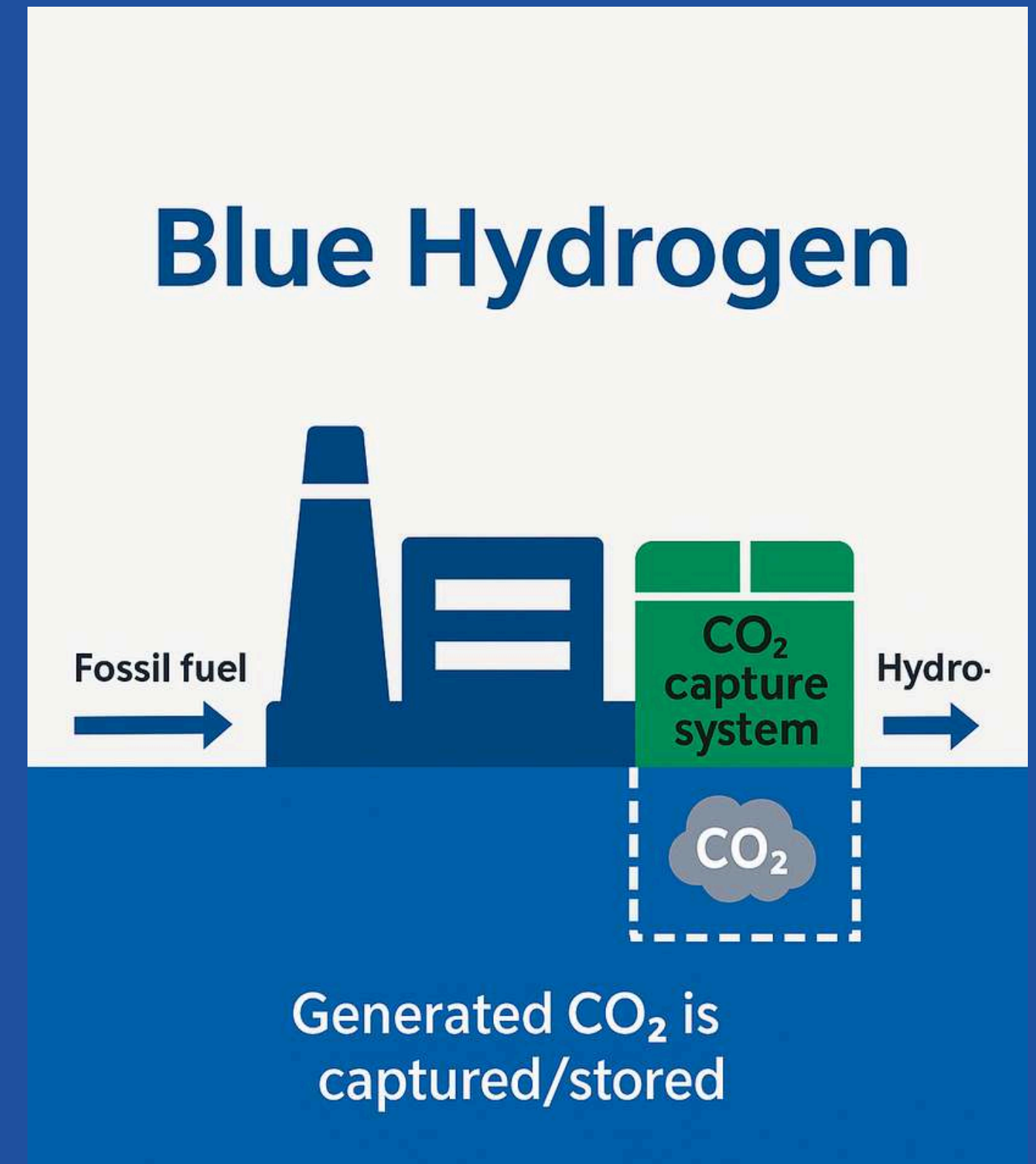
TECHNOLOGY STACK

CARBON CAPTURE & STORAGE CEMENT & STEEL INDUSTRIES

CARBON-CAPTURE DIRECTLY INTEGRATED INTO YOUR CURRENT PLANTS DELIVERING COST-EFFICIENT DECARBONIZATION, AND EARLY COMPLIANCE WITH FUTURE SUSTAINABILITY MANDATES.

- MEMBRANE
- PRESSURE SWING ADSORPTION (PSA)
- SEA-CAPTURE FOR SHIPS –MARINE RETROFIT

SOURCE OF REVENUE • FREE FROM INFRASTRUCTURE • COMPETITIVE EDGE





FROM HEAVY FUEL OIL, HYDROGEN-FUELLED

DRIVING INNOVATION

EXCEPTIONAL OPPORTUNITY TO EQUIP A MARINE VESSEL WITH AN ON-BOARD CARBON CAPTURE SYSTEM. OUR FUEL CELL SYSTEMS DELIVER CO₂ RICH STREAMS, AND AN APPROPRIATE ON-BOARD CAPTURE MODULE WOULD JUSTIFY INVESTMENT IN THIS CONVERSION TECHNOLOGY.

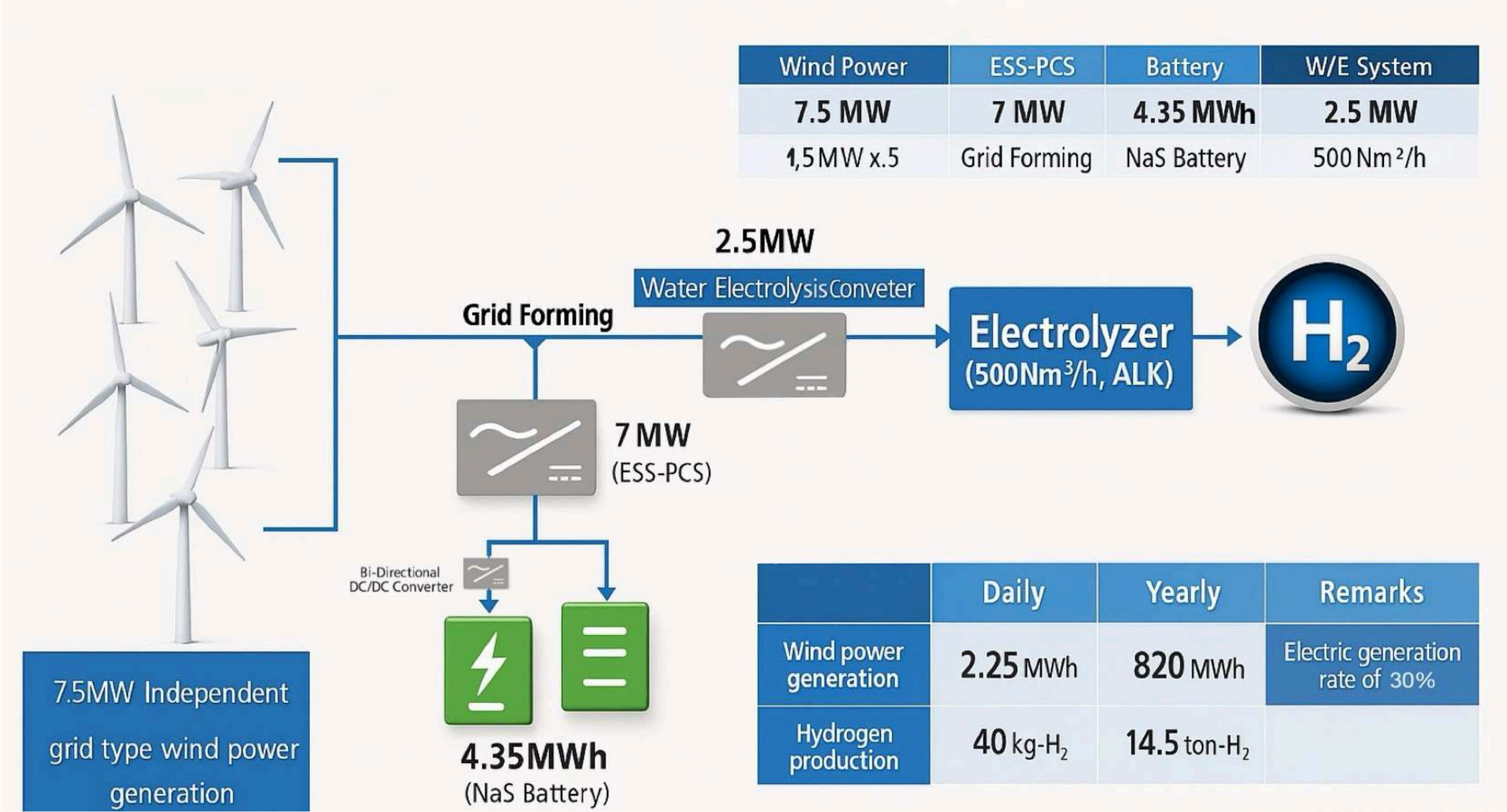
PROPOSAL OF COOPERATION TO BUILD

- FUEL-CELL ANODE OFF-GAS
- MAIN ENGINE EXHAUST GAS

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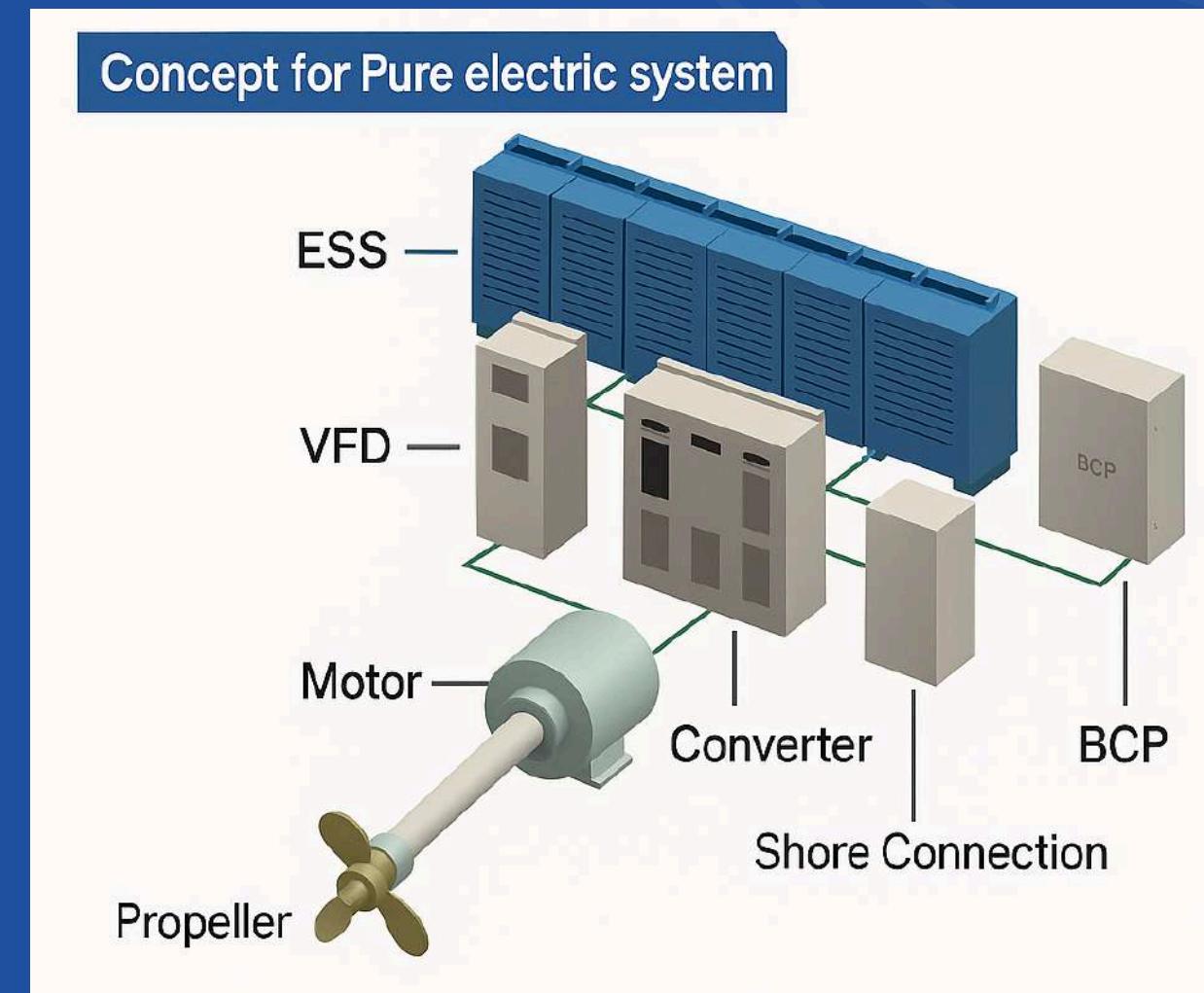
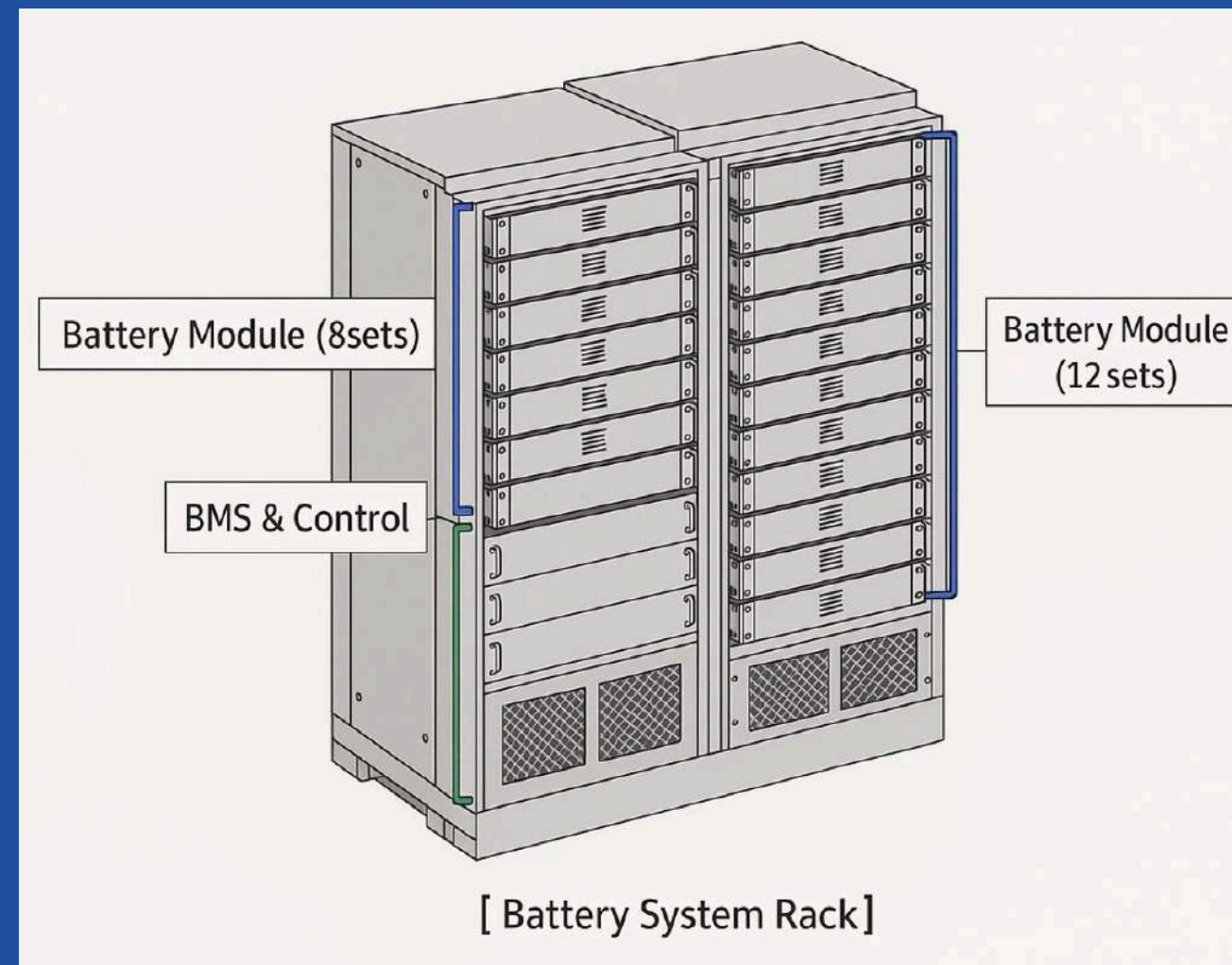


GREEN H₂ 7.5 MW WIND POWER





BATTERY & FUEL-CELL MODULES



OUR NEXT-GENERATION BATTERY SOLUTIONS ARE ENGINEERED SPECIFICALLY FOR ELECTRIC PROPULSION, AND THESE MODULAR PACKS CAN BE SCALED FROM TENS TO SEVERAL THOUSAND KILOWATT-HOURS TO SUIT ANY VESSEL CLASS.

LARGE-SCALE 3D METAL PRINTING

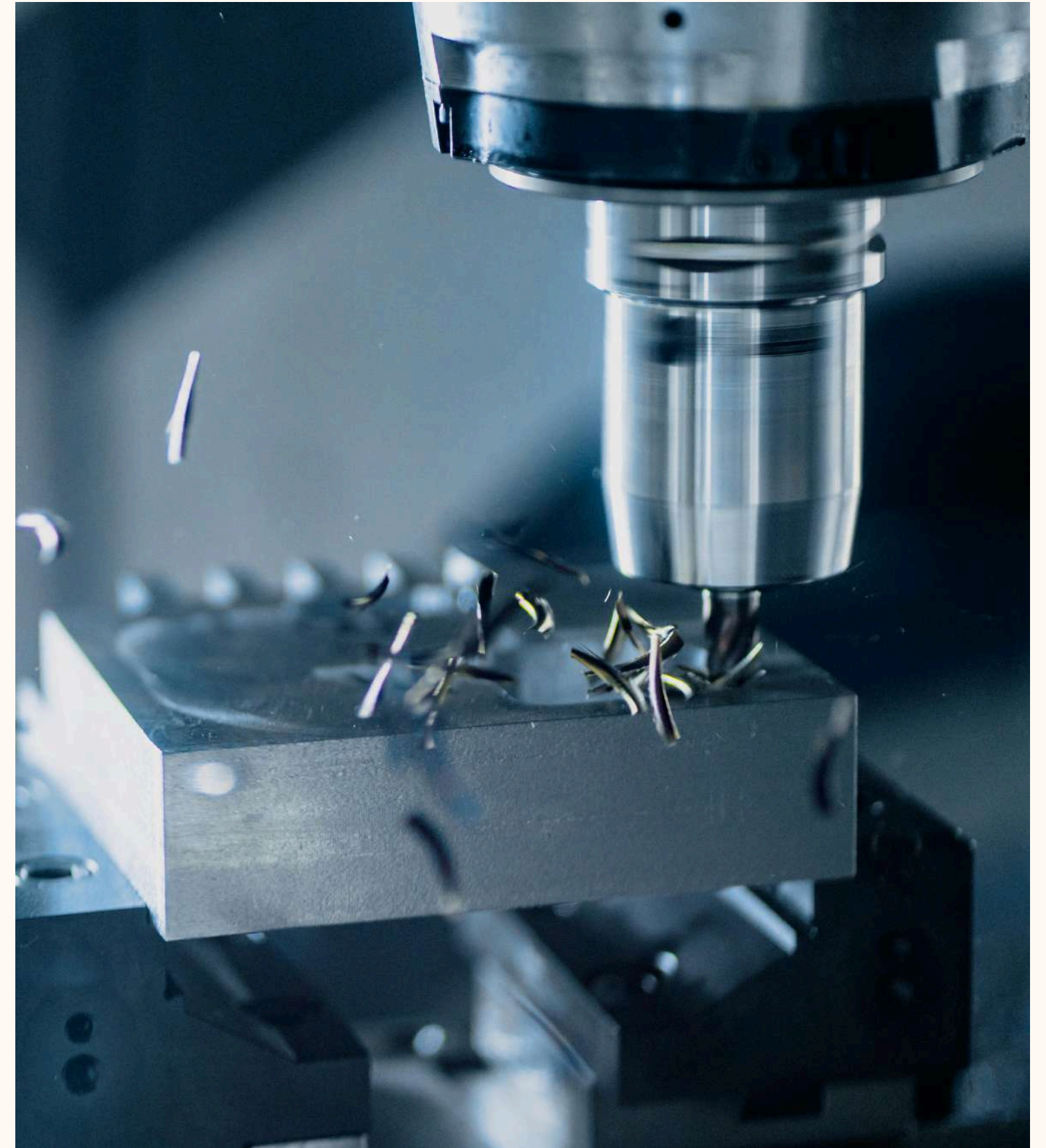
GMM SUPPLIES LARGE SPARE PARTS THAT START AS CUSTOMER APPROVED 3D DESIGNS. THEY PASS THROUGH A DIGITAL PROCESS BEFORE THE FINAL INSPECTION.

- SHIPBUILDING & MARINE APPLICATIONS
- POWER PLANTS
- WIND TURBINES

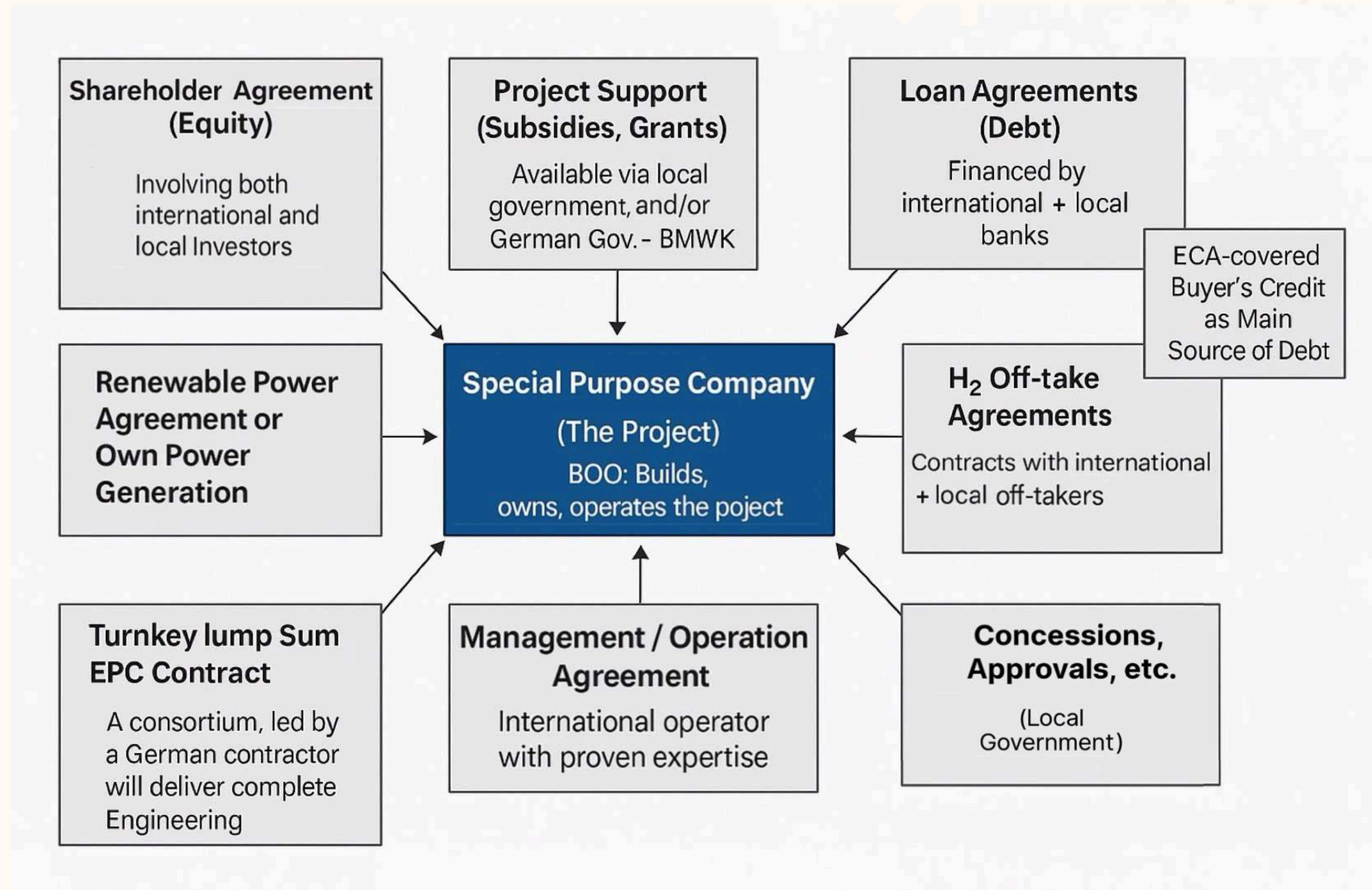
FINITE ELEMENT CHECKS • CNC MACHINING • ROBOTIC WELDING



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FINANCING & COLLABORATION MODEL



THANK YOU



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