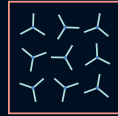
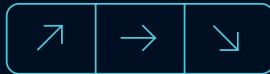


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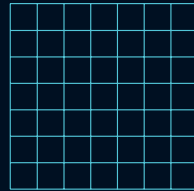
The



 control
room



of the
future



FOR
OFFSHORE
WIND FARMS



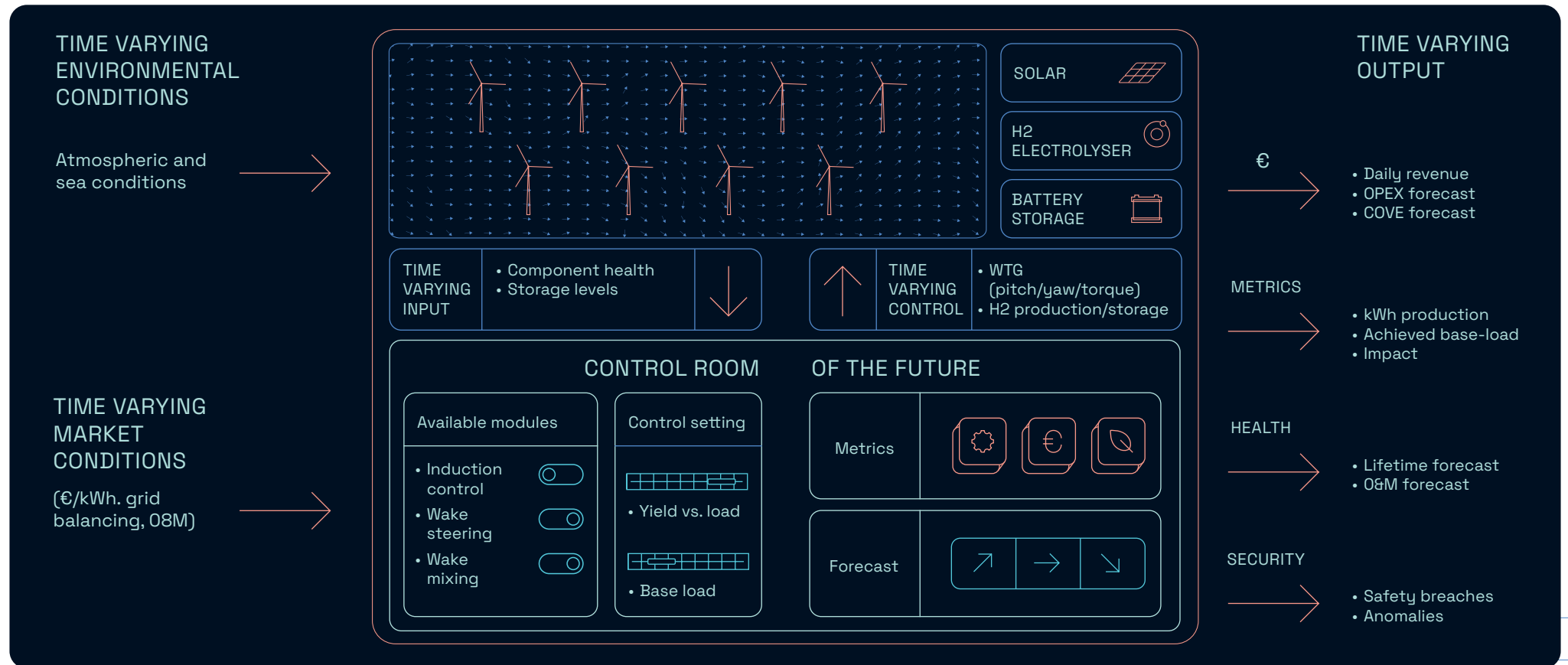
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CONTROL ROOM OF THE FUTURE

The SUDOCO project will introduce an innovative open-source, data-driven platform designed to achieve an optimal equilibrium between maximising energy production and mitigating structural stresses for offshore wind farms. SUDOCO's control room will ensure a substantial enhancement in wind farm performance by utilizing extensive experimental data and physics-based machine learning.



MAIN GOALS

- Develop a control system for a 10% reduction in the Cost of Valued Energy (COVE) metric
- Optimise the entire wind farm system to decrease lifetime CO2-equivalent emissions by 20%
- Enhance cybersecurity to ensure an uninterrupted energy supply

IMPACT

- SUDOCO's innovative solutions promise substantial benefits for wind farm operators, developers, and original equipment manufacturers (OEMs).
- Operators can maximise the financial returns from their wind farms
 - Developers can minimise operational risks
 - OEMs have the flexibility to enhance the open-source tools with additional features

PARTNERS OF SUDOCO PROJECT ARE:



POLITECNICO
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