



FLEXnCONFU PROJECT

**Deployment of Power to Hydrogen
Solution in Combined Cycle Power Plant**

PAULA RAMOS

PORTUGAL

3RD NOVEMBER



This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 884157

EDP Worldwide

We are in

16 Countries
12.000 employees
44 Nationalities

PORTUGAL

ELECTRICITY

Installed capacity: 10.002 MW
Traded electricity: 18.119 GWh
Customers number: ≈ 4.2 millions

GAS

Traded Gas: 3.605 GWh
Customers number: ≈ 660 000



ESPAÑA

ELECTRICITY

Installed capacity: 3.528 MW
Traded electricity: 12.549 GWh
Customers number: ≈ 1.2 Millions

GAS

Traded Gas: 15.143 GWh
Customers number: ≈ 900 000



BRASIL

ELECTRICITY

Installed capacity: 2.320 MW
Traded electricity: 31.871 GWh
Customers number: ≈ 3,5 Millions



Installed capacity: 11.301 MW
Traded electricity: 28.359 GWh



edp

EDP is positioning in the Hydrogen sector through innovative and pioneering projects and strategic partnerships

Power-to-hydrogen in CCGT



Offshore hydrogen-wind coupling



H2 Sines



Mobility and injection of H2 into the NG grid



Produção

Promotes and manage hydro and thermal power plants

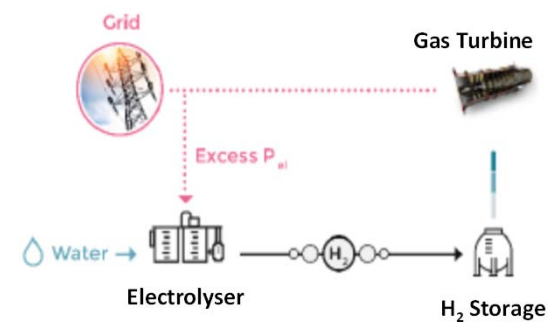


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RIBATEJO POWER PLANT

POWER to HYDROGEN



Demo Plant:

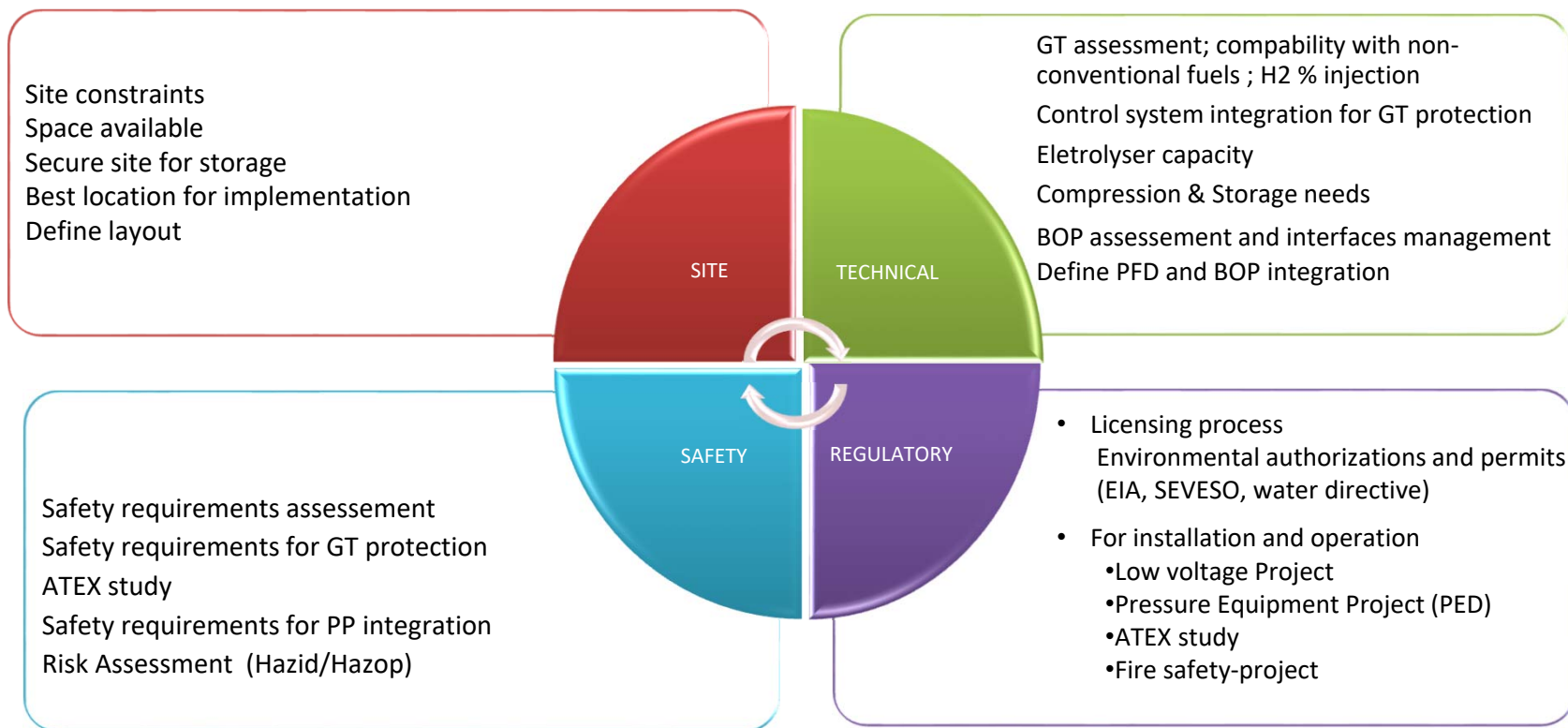
- 1 MW fast-cycling electrolyzer
- Gas compressor (from 30 to 200 bar)
- Pressurized hydrogen storage

PROJECT TIMELINE



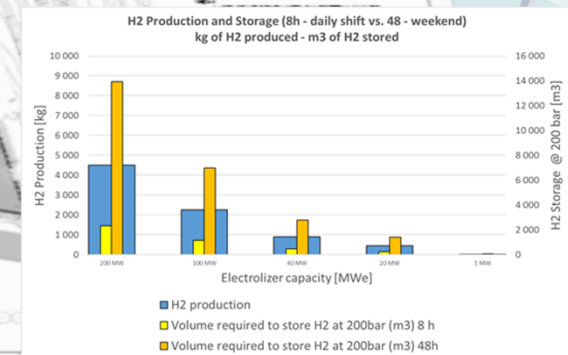
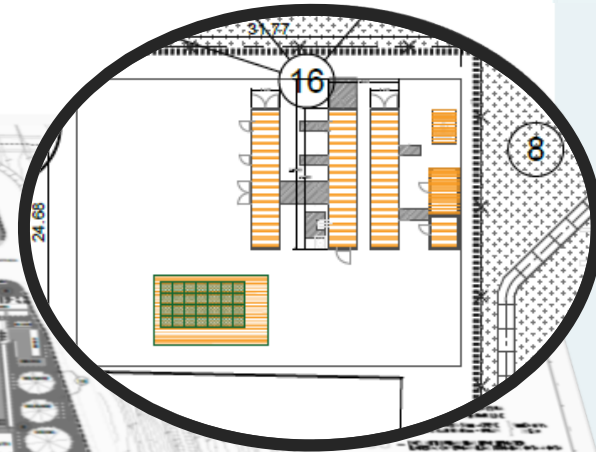
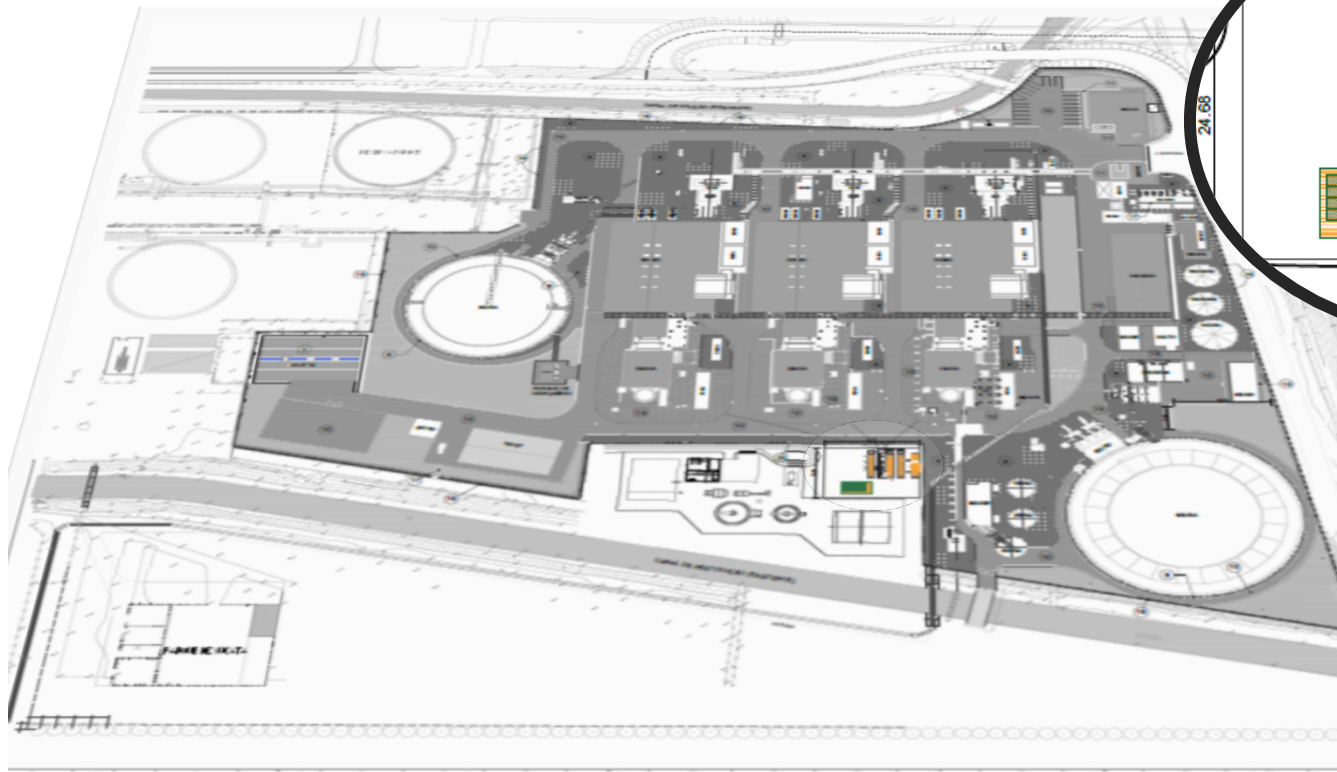
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Deployment P2H in CCGT Plant



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Challenges - Layout



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MANY THANKS!

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