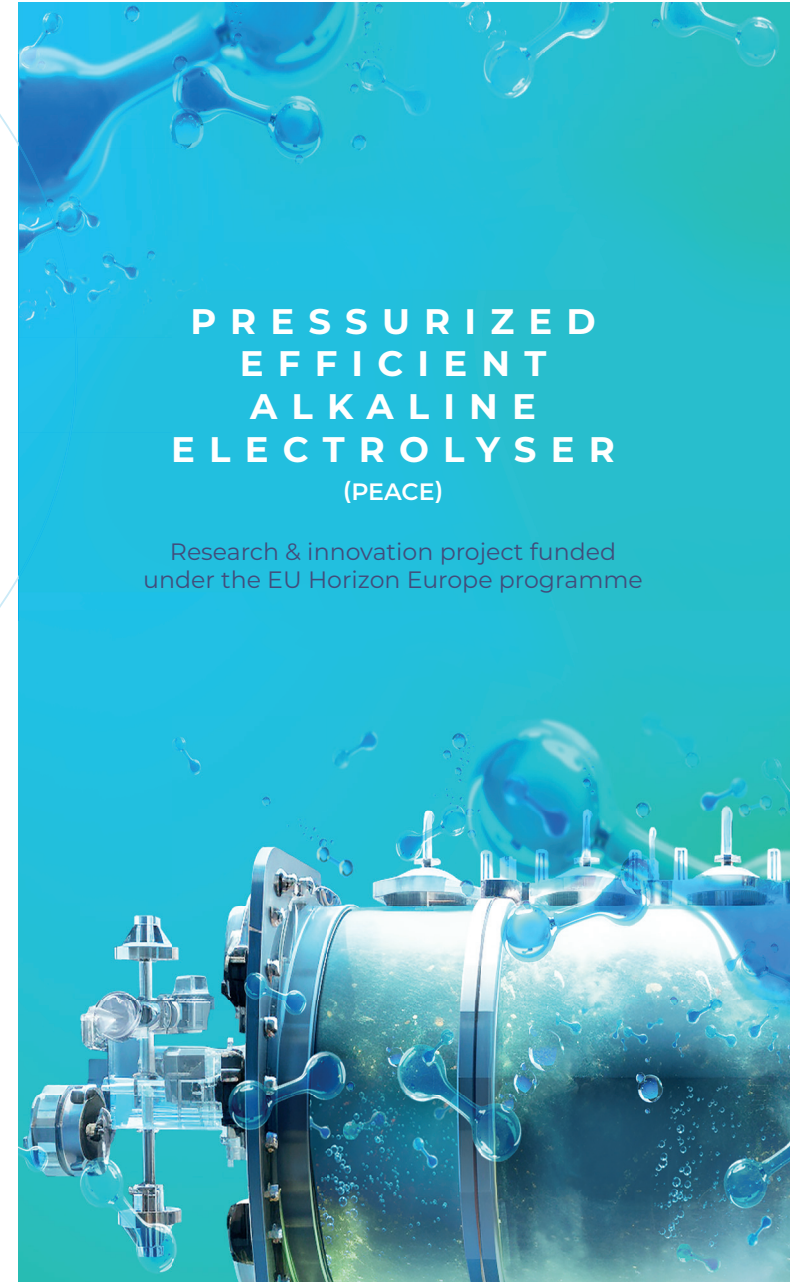




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**PRESSURIZED
EFFICIENT
ALKALINE
ELECTROLYSER
(PEACE)**

Research & innovation project funded
under the EU Horizon Europe programme



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the Clean Hydrogen Partnership
and its members.



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MEET THE PEACE PROJECT

WHAT

is PEACE?

Research and innovation project within the Horizon Europe programme

Funded by the Clean Hydrogen Partnership

Started in June 2023

Developing an innovative technology of high-pressure alkaline electrolysis (AEL) to produce hydrogen

PEACE technology will be green, efficient, less expensive and with low adverse environmental impact

WHY

does PEACE take action?

To significantly decrease the hydrogen production cost and to boost the hydrogen economy

To contribute to reduction of emission of carbon dioxide

To increase the energy efficiency of hydrogen production

WHICH

objectives has PEACE set itself?



Development of highly efficient pressurized stack



Pressure vessel stack concept



Balance of Plant and auxiliary optimization and qualifications



Technology demonstration



Integration concept with downstream chemical plants



Reduction of capital costs per system

HOW

does PEACE work?

- 1** Qualification of various cell and stack components
- 2** Assembling of the PEACE AEL stack demonstrator with the best-performing components
- 3** Demonstrator enrichment with dual-stage pressurisation concept
- 4** Demonstrator in operation - evaluation of function, performance and characteristics simulations
- 5** Assessment of the environmental and other impacts of the PEACE technology, and PEACE AEL integration with a chemical plant directly utilising the PEACE-produced hydrogen

WHO

is PEACE?

The PEACE consortium is composed of 7 entities from 5 EU countries under the coordination of Deutsches Zentrum für Luft- und Raumfahrt (DLR).