

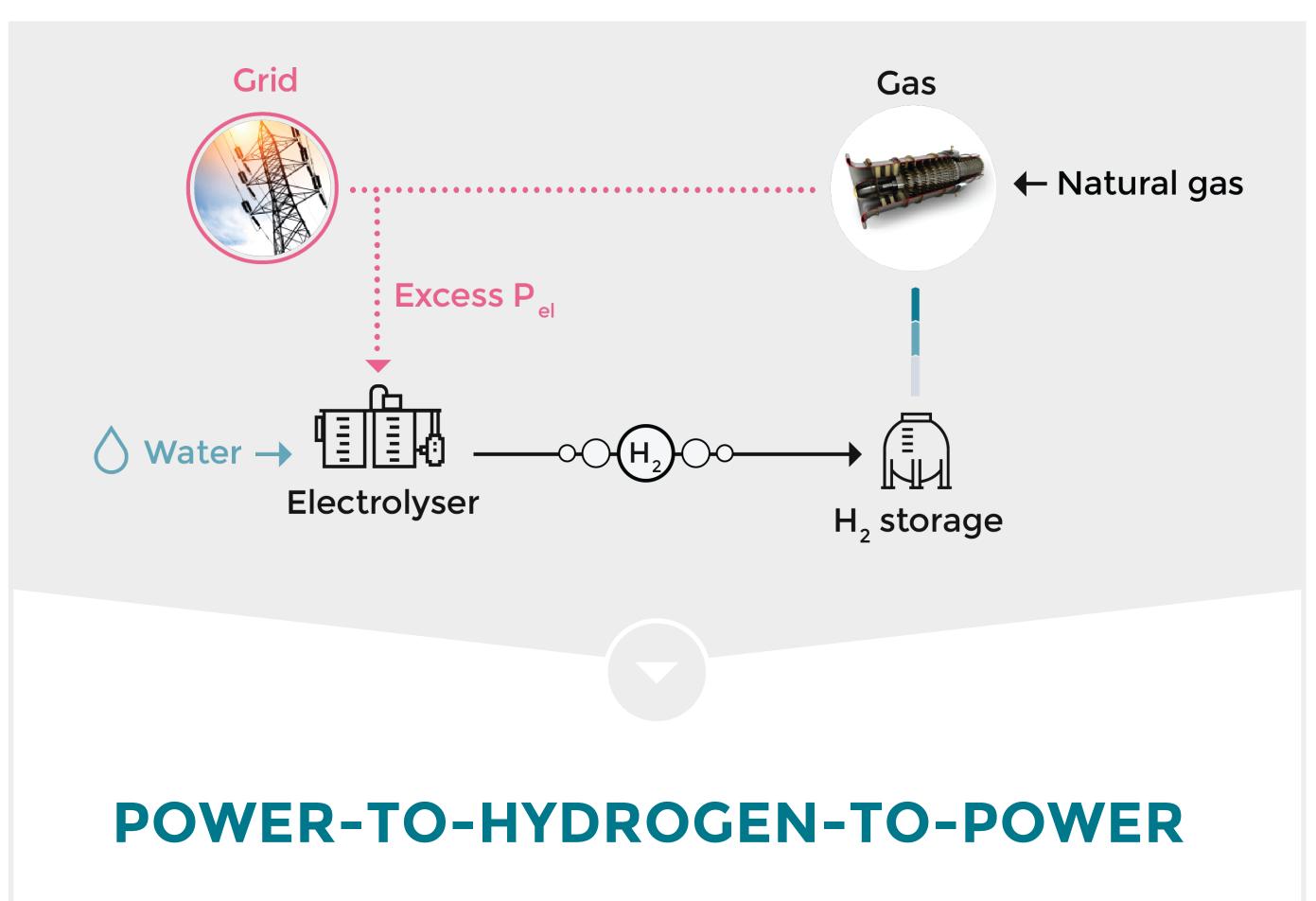
FLEXibilize combined cycle power plant through Power-to-X solutions using non-CONventional FUels

4-year R&D project 2020-2024

CONCEPT

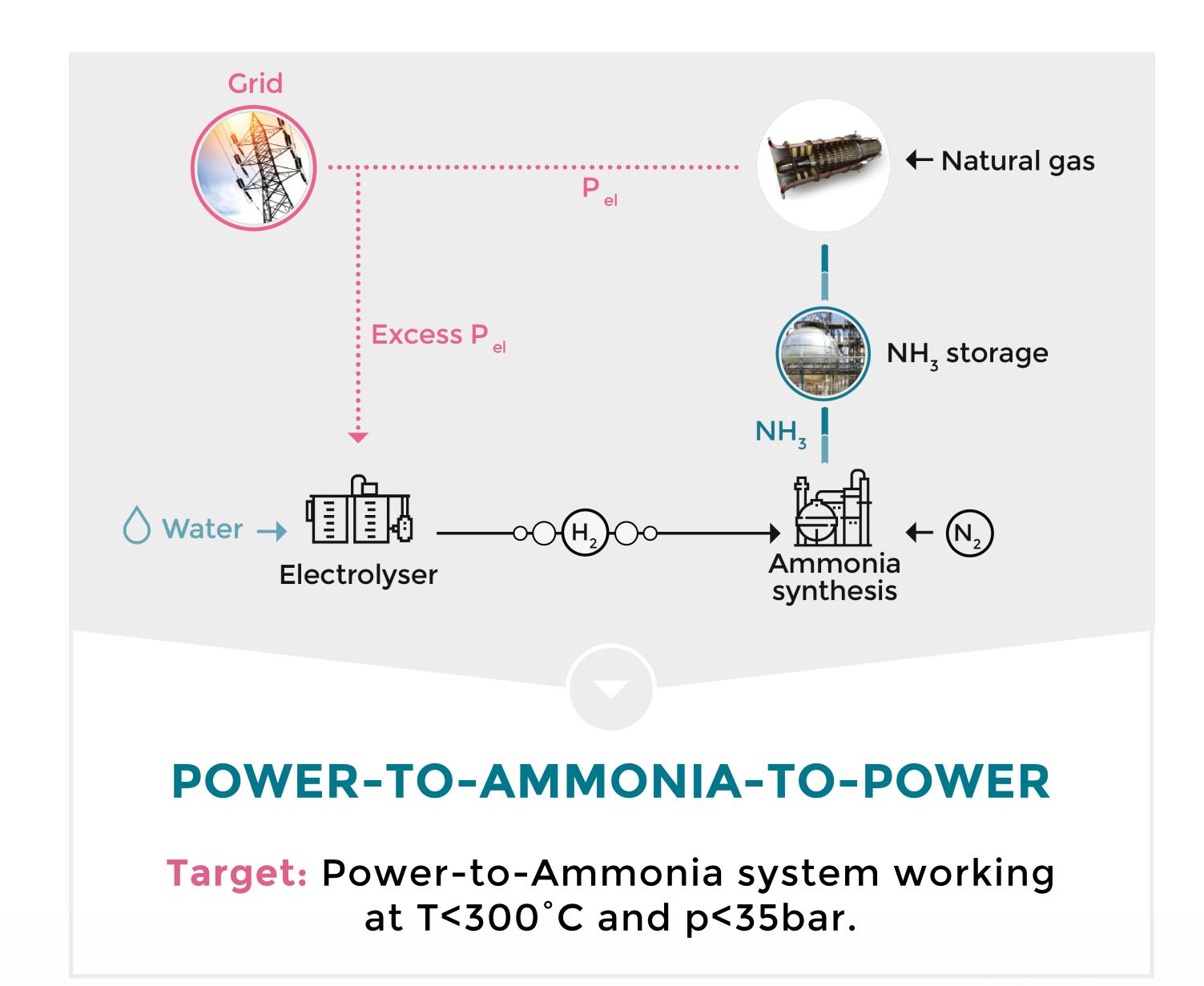
The main goal of the FLEXnCONFU is to develop and demonstrate in a combined cycle (CC) power plant an innovative, economically viable and replicable power-to-X-to-power solutions.

OBJECTIVES



Target: 1000 operating hours for the Power-to-Hydrogen solution connected with

the combined cycle power plant.



GAS TURBINE FUEL FLEXIBILITY

Target:

30%H₂ and 100%NH₃ in combustion test for representative heavy duty gas turbines; 100% NH₃ in modified micro gas turbine.

ADVANCED CONTROL SYSTEM

Target:

computational duration reduction up to 25%.

ECONOMIC, SAFETY AND ENVIRONMENTAL SUSTAINABILITY

Target:

GHG reduction up to 20% - Pay Back Period up to 8 years - 3 Feasibility studies performed.

Shaping tomorrow's energy generation with flexible, carbon-free and efficient Power-to-X-to-Power solutions



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