Green Hydrogen& Solar and Wind Energy.

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Power to Hydrogen and Power to Water Using Wind Energy(13 May 2022)



Figure : Schematic representation of the HRES: (a) with PHS; (b) with HPHS.

Hydrogen farm concept: A Perspective for Turkey(27 July 2021)



Potential and economic viability of green hydrogen production by water electrolysis using wind energy resources in South Africa(4 June 2019)



Schematic Diagram of hydrogen production chain from wind turbine to storage.

Onshore, offshore or in-turbine electrolysis? Techno-economic overview of alternative integration designs for green hydrogen production into Offshore Wind Power Hubs(1 September 2021)



Fig. Schematic representation of the electrolyserplacements.

Techno-economic analysis and Monte Carlo simulation for green hydrogen production using offshore wind power plant (6 May 2022)



Fig. Configurations of three cases for transporting offshore wind energy inland: (a) distributed hydrogen production; (b) centralized hydrogen production; (c) onshore hydrogen production. 5

Optimizing hybrid offshore wind farms for cost competitive hydrogen production in Germany (31 December 2021)



Fig. Overview of hybrid offshore wind farm with power-to-hydrogen.

Flexible production of green hydrogen and ammonia from variable solar and wind energy. Case study of Chile and Argentina (May 2019)



Fig. Schematic of a green all-electric Haber-Bosch plant. Light blue lines denoted by p show power flows, other lines represent chemical energy fluxes when denoted by f, or mass flows.

Irish company designs floating solar platform for green hydrogen (February 15, 2021)



Solar and Wind Power Could Ignite a Hydrogen Energy Comeback (February 1, 2020)

Grid Support

During windy or sunny days, excess electricity can be sent to run electrolyzer machines that split water into hydrogen and oxygen. The hydrogen can be stored, and if renewable



Techno-economic assessment of solar hydrogen production using CPVelectrolysis systems (March 2016)



Fig. Estimation of the hydrogen production fractional cost variation with solar concentration for different values of cell efficiency. C is the solar concentration ratio.