

Our process



Conceptual Design of a Lineal Reactor

Hysun is a Spanish start up
with very solid investors:

Nanogap
advanced catalysts

Tewer Engineering
solar concentration

Equinor Ventures
*Venture Arm of Equinor: shaping the
future of energy*

EIT InnoEnergy
*VC with 2,3GT portfolio accumulated
CO₂ potential reduction by 2030*

Axon Partners
*VC empowering opportunities in
technology and innovation*



Delivering the low cost
renewable hydrogen revolution

Supported also by EU-NextGeneration funding:

S²LAR-H₂R

The S²LAR-H₂R project, led by TEWER ENGINEERING together with HYSUN, NANOGAP, and with the collaboration of USC and UC3M. With a duration of three years, a budget of more than €3.18 million, and EU-NextGenerationEU funding, it seeks to industrialize efficient, modular, and scalable green hydrogen technologies to drive the energy transition and the creation of skilled jobs

Contact us today and lead
the hydrogen revolution

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h2hysun.com

Madrid - A Coruña - Almería

The future of the hydrogen starts here

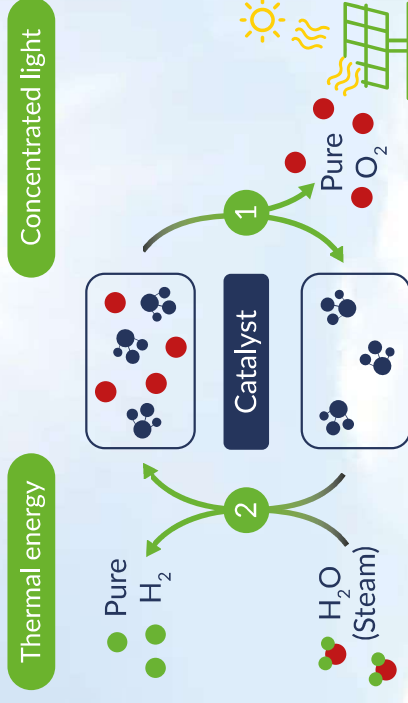
Hydrogen. 100% Renewable. Zero Electricity

Hysun delivers the world's first hydrogen production system that:

- Run on only sunlight and water
- Needs no electricity- fully off-grid
- Produces zero CO₂ emissions

The uniqueness of our technology: Metal Molecules, a unique photo-thermo catalyst

The secret: a revolutionary photo-thermo-catalytic process



- 1. Vacancy formation**
Using concentrated sunlight, pure O₂ is photocatalytically eliminated from the catalyst
- 2. Vacancy elimination**
In the reactor, the catalyst traps O₂ from H₂O steam, forming pure H₂

Performance Beyond Limits

- **Record efficiency:** 22% achieved today with a solid track to get up to 42%. Solar-to-Hydrogen - up to 4x better than others.
- **Game-changing cost:** Just 1-3€/kg - making green hydrogen truly competitive.
- **Scalable power:** From 45 tonnes/year pilot plants to 9.000 tonnes/year industrial scale.

We're turning clean hydrogen into a mainstream energy source – affordable, abundant, unstoppable.

Benefits



Designed for Impact

Compact, modular, scalable – fits anywhere, grows with your needs

Works in remote areas without a power grid

Perfect for decarbonizing high-energy sectors.

Our Ambition

