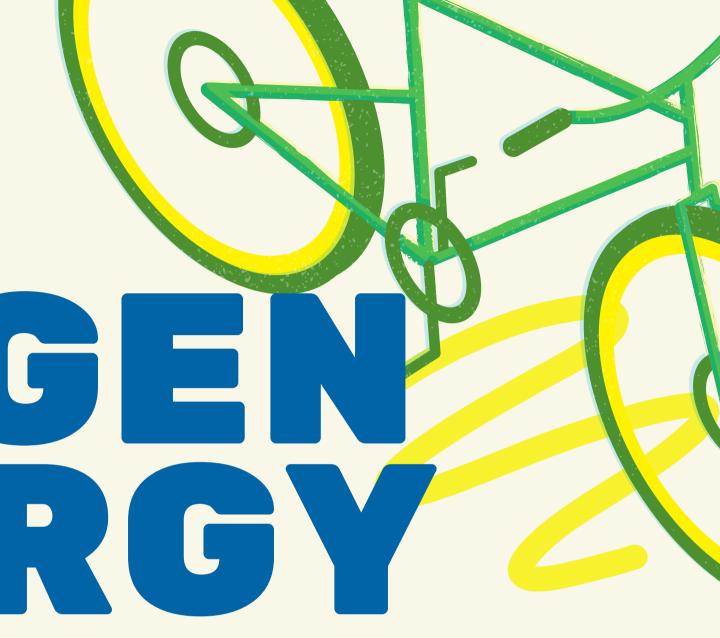
UWC ADRIATIC HYDROGE

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A look into the present for *improving* our futures



A lookinto

- **Europe**
- **O** Asia
- **O** America
 - **Africa**





<u>Helios Project:</u>

- Provincia di Frosinone
- 5MW electrolysis system
- 7MW photovoltaic system
- 400 tons/y
- €9,500,000 from PNRR

SoutH2 Corridor:

- 3,300 kilometers of pipelines across Italy and Europe
- reusing over 70% of existing infrastructure
- 4 million tonnes per year of imported hydrogen
- 40% of the EU's REPowerEU import target



NRRP:

- €191.5b in grants
- €68.6b in renewable energy
- By 2050, hydrogen could supply nearly 23% of Italy's total energy
- Green hydrogen" is projected to become cost-competitive with "grey hydrogen" by 2030,
- Importing hydrogen from North Africa via existing pipelines could lower costs

• 3rd hydrogen producer in Europe

(unfortunately not much from renewable sources)

- Polish Hydrogen Strategy and main objectives
- Hydrogen valleys
- Interesting innovations in 2023







YES

Committed to COP 28 targets

LCHP part of national and regional (CIS) strategies documents

Method: electrolysis via NPP

Own NPP

Cheap energy imports

Low CO₂ emissions

ASO

NPP runs on low capacity

Untapped renewables potential

Acknowledgement of lowcarbon hydrogen production

Constellation of factors

Low-carbon hydrogen production is great

Must do some day

How about 2040 or let's say 2050?









• Largest producer (1/4 global)



Hydrogen applications

Strategy 2

International collaboration

Strategy 3

Policies





H₂

Latin America Mexico Internetion

- Largest Project: *Baja California Hydrogen Hub*
- Strategic partners for collaboration
- Baja California HUB can offer more jobs





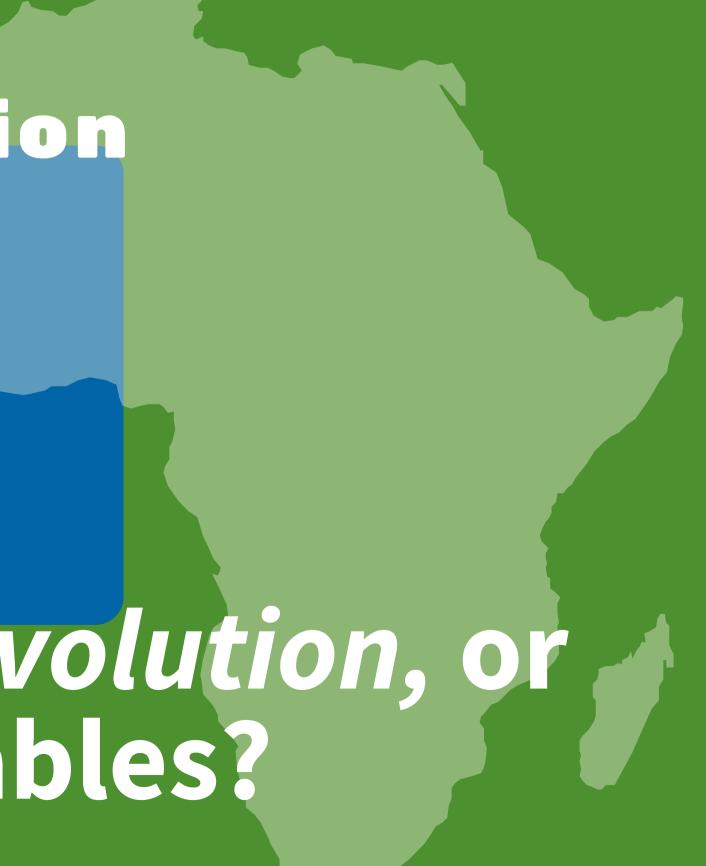


O Africa "Going Green" Mission

- Noor Solar Complex (Morocco) generates over 580 MW of clean energy.
- Morocco's partnerships in 2020 led to Africa's first standalone green hydrogen plant.
- Green hydrogen-powered ammonia plant in Morocco on track to produce 31,000 tons of green hydrogen by 2026.

The Green Revolution, or was it Vegetables?





Challenges in Scaling Green Hydrogen



Elements in the Periodic Table

39% **Global Untapped Solar potential**

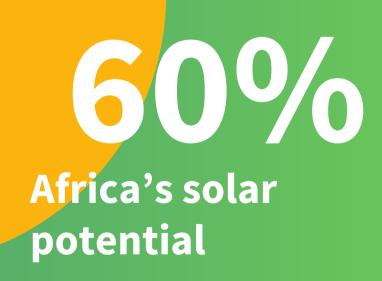
hydro = *water* genes = forming



1% **Africa's Actual Solar contribution**



Africa's potential in solar resources **FUEL OF THE FUTURE?**





Politicians, entrepreneurs, engineers, educators each of you has a role in the green hydrogen legacy.

Green hydrogen isn't a dream anymore; it's already underway.



your role be?







Nina Benedetta Leonardo Milena Marta

Helena Alessandro Milca Rawane Ashraf

