

JUST-GREEN AFRH2ICA

PROMOTING A JUST TRANSITION TO GREEN HYDROGEN IN AFRICA



Project ID	101101469
PRR 2025	Pillar 5 - Cross-cutting
Call Topic	HORIZON-JTI-CLEANH ₂ -2022-05-05
Project Total Costs	999 995.00
Clean H ₂ JU Max. Contribution	999 995.00
Project Period	01-02-2023 - 31-01-2025
Coordinator Beneficiary	UNIVERSITA DEGLI STUDI DI GENOVA, IT
Beneficiaries	TEKNOLOGIE SOLUTIONS LIMITED, AFRICAN HYDROGEN PARTNERSHIP, IMPACT HYDROGEN B.V., STAM SRL, BLUENERGY REVOLUTION SCRL, INSTITUT DE RECHERCHES EN ENERGIE SOLAIRE ET ENERGIES NOUVELLES, STRATHMORE UNIVERSITY, ARTELYS, Fundacion IMDEA Energia, NOORDWES-UNIVERSITEIT, FORSCHUNGSZENTRUM JULICH GMBH, COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

<https://just-green-afrh2ica.eu/>

PROJECT AND GENERAL OBJECTIVES

JUST GREEN AFRH2ICA aims to develop a green hydrogen just transition roadmap that would make African-European transition pathways to H₂ synergic, sustainable (from environmental and social points of view), while avoiding any new EU hydrogen colonisation of Africa, and promoting a mutually beneficial collaboration between the two continents for the development of independent and collaborative hydrogen economies, research and development ecosystems and value chains. To do so, JUST GREEN AFRH2ICA has involved key partners from both the EU and African Union (AU) sides, such as the African Hydrogen Partnership (AHP) and Hydrogen Europe, along with representatives from academia, research and technology organisations, and policymakers. JUST GREEN AFRH2ICA aims to be a stepping stone to a collaborative hydrogen roadmap that, based on the analysis of different AU green H₂ scenarios at the socio-economic-technical level via partners' tools (also assessing local resources for green hydrogen production, among which renewable energy sources and water are the key ones), will also drive future investments and policies and the setup of local manufacturing lines.

NON-QUANTITATIVE OBJECTIVES

- Support the mutual benefit collaboration between Africa and Europe on green hydrogen initiatives.
- Promote a Just Green Hydrogen transition in both continents.
- Stimulate the sharing of know-how between the continents.
- Identify the most interesting African countries for investing in green hydrogen looking at both domestic markets and exports to Europe.

PROGRESS, MAIN ACHIEVEMENTS AND RESULTS

- Modelling of the identified use cases via techno-economic, sustainability assessment, socio-economic, hydrogen potential assessment, water availability assessment via tools developed and properly adapted to the African context.
- Assessment of the impact of green hydrogen import from Africa on the EU energy system.
- Continuous assessment of AU countries' national hydrogen strategies and updates.





- Assessment of African manufacturing and knowledge capabilities to setup an EU green hydrogen manufacturing value chain.
- Assessment of financing instruments relevant to support green hydrogen transition in Africa.
- Realisation of JUST GREEN AFRH2ICA financing, policy and manufacturing roadmaps.
- Engagement with stakeholders through surveys and events to gather input for project tasks.
- Promotion of the second training package on the E-Learning platform.
- Organisation of fifteen physical training events and five web events.
- Participation in more than 35 events: speeches at international conferences, organisation of seven stakeholder workshops, robust social media campaign, release of project videos.
- Publication of three open access journal papers.

FUTURE STEPS AND PLANS

The project has been successfully completed in January 2025.

PROJECT TARGETS

Target source	Parameter	Unit	Target	Achieved to date by the project	Target achieved?
Project's own objectives	Modelling tools from the consortium updated.	Number	5	5	✓
	Number of trainees registered to trainings workshops/events and E-Learning.	Number	> 200	> 600	
	Number of AU countries' policies analysed.	Number	10	25	
	Approval from the stakeholders of the Project roadmaps.	%	> 70	60	
	Stakeholder interaction - Number of stakeholders engaged in activities.	Number	At least 25 stakeholders always present and active in foreseen stakeholders driven activities.	>25	
	Modelling AU Green H ₂ scenarios via unique consortium tools.	Number	4		
	Number of Users of the JUST GREEN AFRH2ICA Matchmaking/stakeholder platform.	Number	> 150	157	