

Grant Agreement number: 101101469

Project acronym: JUST-GREEN AFRH2ICA

Project title: Promoting a JUST transition to GREEN hydrogen in AFRICA

Type of action: Deployment of systemic solutions with the support of local clusters and the development of regional community-based innovation schemes



JUST GREEN AFRH2ICA TRAINING EVENT

Italy can become one of the most relevant European Hydrogen Hub also being “hydrogen door” for African green hydrogen import via its natural gas pipelines and port. Furthermore Italy has been recently promoting a political agreement with some African countries also looking at energy as one of the key topic of cooperation, the so-called Piano Mattei. Europe and Africa have to jointly promote a hydrogen transition to boost sustainable economic development and a decarbonization of their economic sector: to do so specific know-how should be developed in both continents.

Genova, 29th May 2024 9.00 – 16.30

Venue

Università degli Studi di Genova - Scuola Politecnica – Villa Cambiaso

Via Montallegro 1 – 16145 Genova

Aula A7 – Oreste Acton

ATTENDEES MUST REGISTER THEMSELVES AT THE FOLLOWING LINK:

[JUST GREEN AFRH2ICA training event](#)

The event is held in English

Training attendees

Project stakeholders: PhD Students, researchers, technicians...

Time	Activity	Presenter
8.30 – 9.00	Registration and networking	
9.00 – 9.30	Welcome and Opening the day <i>Greetings from JUST GREEN AFRH2ICA coordinator and project presentation</i>	Stefano Barberis (UNIGE)
SESSION 1: UNIGE Hydrogen key R&D activities for African Green Hydrogen Transition		
9.30 – 9.50	Frontiers in the Anionic Exchange Membrane Electrolyser technologies	Ombretta Paladino (UNIGE)
9.50 – 10.10	Materials challenges for electrolysis and co-electrolysis technology	Antonio Barbucci (UNIGE)
10.10 – 10.30	Green hydrogen production methods different than electrolysis: a focus on biomass valorisation	Elisabetta Arato (UNIGE)
10.30 – 10.50	Molten Carbonate Fuel Cells: a solution for industrial/transport decarbonization	Barbara Bosio (UNIGE)
10.50 – 11.00	NEST project and UNIGE role in it	Loredana Magistri (UNIGE)
11.00 – 11.15	Networking Coffee Break	
SESSION 2: Creating green hydrogen Ecosystems in Africa: the JGA Experience		
11.15 – 11.30	HOW TO MODEL GREEN HYDROGEN POTENTIAL AND IMPACT	Amin Lahnaoui – Gianmarco Aniello (JULICH)
11.30 – 11.45	Potential Impacts of African Green Hydrogen Import to the EU Energy system	Thomas Brouhard (ARTELYS)
11.45 – 12.00	WATER NEEDS AND ASSESSMENT OF A GREEN HYDROGEN PROJECT	Cristian Berretta (STRATH)
12.00 – 12.15	TECHNO-ECONOMICS OF GREEN HYDROGEN PRODUCTION: Main indicators to evaluate the economic viability of a project (Case study – how to calculate green hydrogen cost?)	Nouhaila Nabil (IRESEN)
12.15 – 12.30	Costs of transportation of hydrogen towards EU	Stefano Barberis (UNIGE)
12.30 – 12.45	Sustainability assessment of a green hydrogen project	Vafa Feyzi (IME)
12.45 – 13.00	SOCIO-ECONOMIC ASPECTS TO BE CONSIDERED ONCE DEVELOPING A GREEN HYDROGEN PROJECT	Nienke Homan (IH-AHP)
13.00 – 14.00	Lunch Break	
SESSION 4: Hydrogen Hub Team work		
14.00 – 14.30	Presentation of the “Hydrogen Hubs” to be analysed by JGA project and of the team work	Philimon Modisha (NWU) Oussama Bayssi (IRESEN) Cristian Berretta (STRATH)
14.30 – 15.30	TEAM WORK	
15.30 – 16.30	Wrap up and presentation of the team work	