

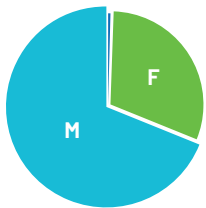


Number of participants per WG



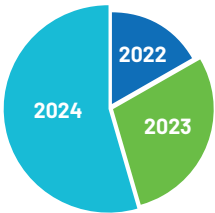
- WG1: **93**
- WG2: **100**
- WG3: **118**

Female/Male participants

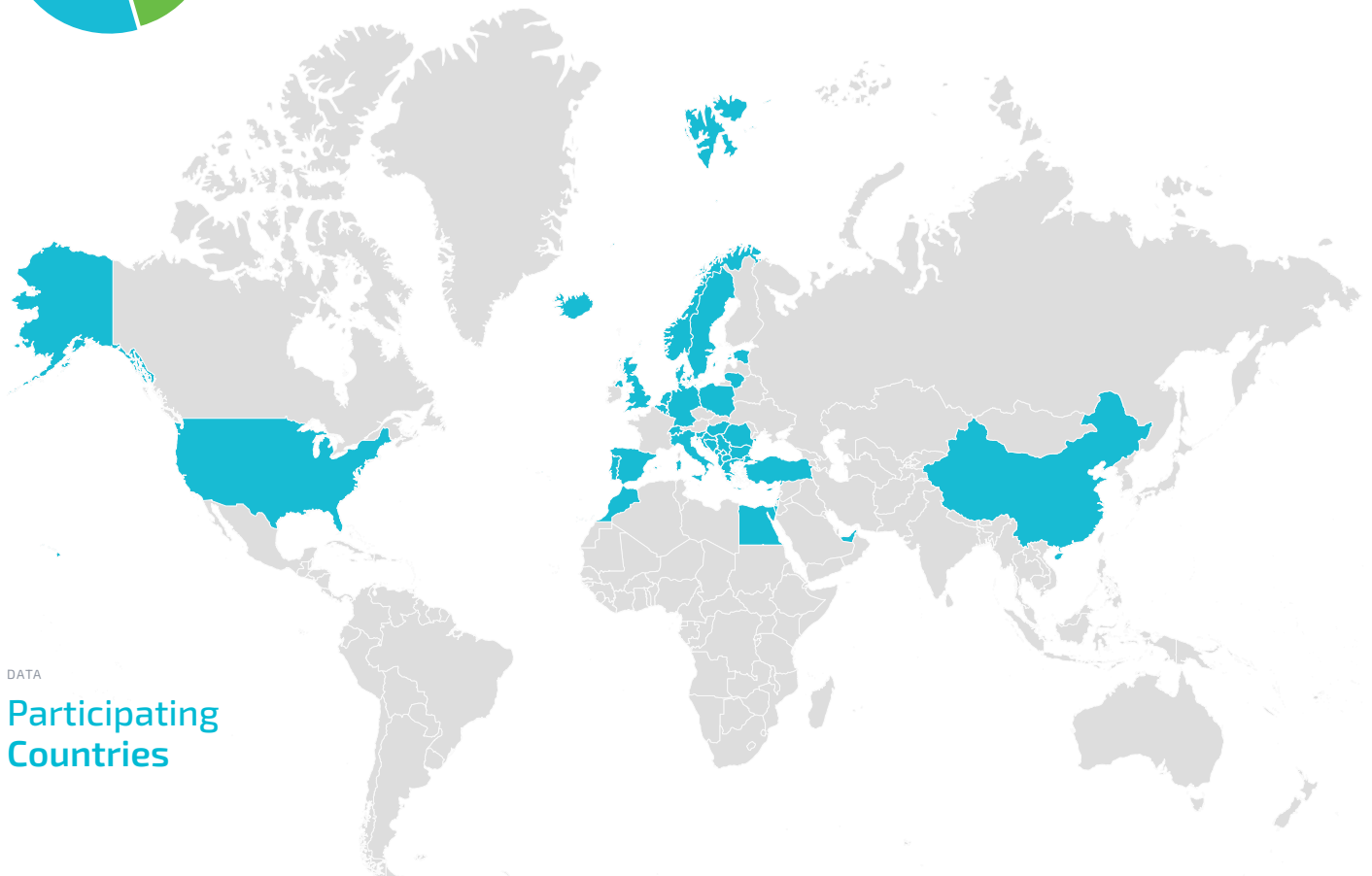


- Prefer not to say: **02**
- Female: **97**
- Male: **219**

Number of participants



- 2022: **99**
- 2023: **169**
- 2024: **318**



DATA

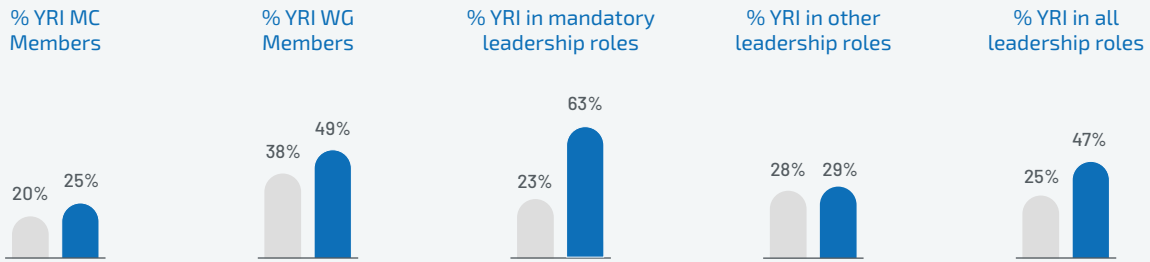
Participating Countries



YOUNG RESEARCHER AND INNOVATORS

Career stage: Young Researchers and Innovators

● Action CA20109
● All Actions



YRI - Young Researchers and Innovators

01

STORIES

Core Group meeting in Ancona

📅 05-06 FEBRUARY, 2024

The first kick-off meeting of the year took place at the Università Politecnica delle Marche in Ancona, IT, hosted by Professor Stefano Lenci. The meeting was pivotal in the organization of the upcoming Modenerlands events for 2024 and focused on the Working Group meeting in Kuanas and the Workshop in Bochum.



02

STORIES

WG general meeting in Kaunas

📅 25-26 MARCH, 2024



The MODENERLANDS' third WG meeting took place at KTU Faculty of Civil Engineering and Architecture on 25-26 March 2024.

During these two days, three working groups' participants, led by leaders Michaela Gkantou, Anina Šarkić Glumac and Luana Tesch, had presentations and discussions on the ongoing works and future steps of the project activities.

There were also guests:

- Andrius Jurelionis, dean of the Faculty, who presented research activities and the study process at the Faculty of Civil Engineering and Architecture.
- Darius Žebrauskas, Head of Innovation at EPSO-G, who introduced "Lithuania Energy Vision to 2050".

Thanks for Lina Šeduikytė for organizing the WG meeting!



03

STORIES

Core Group meeting in Visby

13 JUNE, 2024

The second Core Group meeting took place in the Gotland Campus of Uppsala University, with Professor Heracles Polatidis as host. During the meeting, the Core Group work on the organization of the upcoming Training School in Belgrade and Working Group Meeting in Chania.



04

STORIES

Workshop in Bochum

02-03 SEPTEMBER, 2024

The second Workshop of the COST Action MODENERLANDS wrapped up at Ruhr University Bochum, hosted by Professor Rüdiger Höffer. With over 50 participants, the event was a resounding success, featuring insightful keynote lectures from industry experts.

The workshop was further enriched by presentations from dedicated members of our working groups, sparking great discussions and collaboration.

05

STORIES

2nd WG and MC meeting in Chania

16-17 SEPTEMBER, 2024

The second Working Group meeting in Chania, Greece, hosted by Professor Georgios Stavroulakis, focused on planning the collaboration for a series of joint papers and defining the roadmap for the final year of the COST Action.

Additionally, the meeting included the development of the draft for the 2025 Training School.

06

STORIES

3rd Training School MODENERLANDS in Belgrade

18-21 JUNE, 2024

MODENERLANDS 3rd Training School, where we delved into "CONCEPTUAL DESIGN OF FLOATING ENERGY ISLANDS FROM TRADITIONAL CONCEPTS TO DIGITAL-TWINS DRIVEN DESIGN". This event unfolded at the University of Belgrade, Serbia, on 18-21 June 2024 and was hosted by Prof. Anina Šarkić Glumac. This Training School was a hub of knowledge and collaboration, fostering sustainable energy solutions.



3rd Training school
Belgrade, Serbia 2024



01

STSMS

Antonio Jose Alvarez Naveira

Affiliation: Universidade Da Coruna (La Coruna, Spain)
Host Institution: Laboratorio Nacional de Energia e Geologia (Lisbon, Portugal)

During his time at LNEG, Antonio Jose improved his knowledge of accessing and utilizing satellite data from the Sentinel-1 mission via the Copernicus platform. Additionally, he gained hands-on experience in processing satellite imagery using the SNAP toolbox application to derive wind field data at a 10-meter height.

02

STSMS

Beatrice Mina

Affiliation: Università degli Studi Mediterranea di Reggio Calabria (Reggio Calabria, Italy)
Host Institution: Universitat Politècnica de Catalunya – BarcelonaTech (Barcelona, Spain)

Beatrice conducted research during her STSM to model a floating Oscillating Water Column (OWC) device integrated into a multipurpose floating platform. After validating her particle-tracking algorithm with a stand-alone OWC, she applied the methodology using experimental platform motion data, ensuring computational efficiency while accurately representing the OWC's behavior.



Beatrice Mina and Salvatore Capasso at Universitat Politècnica de Catalunya

03

STSMS

Bonaventura Tagliafierro

Affiliation: Universitat Politècnica de Catalunya (Barcelona, Spain)
Host Institution: Simulation Based Engineering Lab (UW-Madison, US)

Bonaventura implemented a lumped-mass cable model within the DEM-based solver DEM-Engine, enabling high-fidelity simulations of mooring lines using GPU-accelerated force models. His work contributes to understanding uncertainties in mooring configurations for modular floating energy islands (FMEI).

04

STSMS

Saad Elshamikh

Affiliation: College of Electrical and Electronics Technology-Benghazi (Benghazi, Libya)
Host Institution: Karabuk University (Karabük, TR)

Saad's STSM focused on enhancing collaboration in the fields of Libyan grid resilience and cybersecurity of the distribution grid. During the mission, he developed a model of the Libyan energy network using HOMER and ETAP software.





01

ITC CONFERENCE GRANT

Marin Ivanjović

Affiliation: Sveučiliste U Zagrebu, Fakultet Strojarstva I Brodogradnje (Zagreb, Croatia)

Conference: 9th International Colloquium on Bluff Body Aerodynamics and Applications (BBAA IX) (Birmingham, UK)

Marin's YRI Grant participation involved presenting the study "Aerodynamic Characteristics of Airfoils Equipped with Vortex Generators and Gurney Flaps in Dynamic Stall Conditions" at the BBAA IX conference. The presentation enhanced the visibility of the authors in the aerodynamic research community and engaged experts in aerodynamics and wind energy.



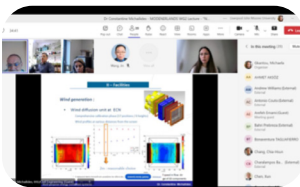
OPEN ACCESS PAPER

Offshore renewable energies: A review towards Floating Modular Energy Islands—Monitoring, Loads, Modelling and Control

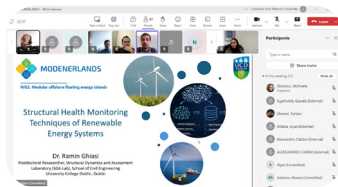
[View publication](#)

MODENERLANDS Webinars

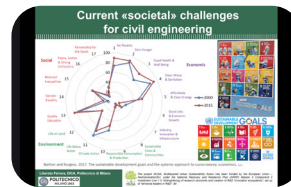
Friday 2 February 2024	WG2	Numerical analysis and testing of multi-purpose energy combined systems	Constantine Michailides
Tuesday 12 November 2024	WG2	Structural Health Monitoring Techniques for Renewable Energy Systems	Dr. Ramin Ghiasi, Postdoctoral Researcher, School of Civil Engineering, University College Dublin
Thursday 5 December 2024	WG2	Ultra High-Performance Concrete - The ideal candidate material for renewable energy harvesting facilities - the experience of the H2020 project ReSHEALience	Dr. Ferrara Liberato, Politecnico di Milano
Wednesday 8 January 2025	WG2	Offshore Floating Solar Energy Systems: The Malaysian Experience	Dr Wesam Alaloul, Universiti Teknologi PETRONAS (Malaysia)



01



02



03



04

01. Numerical analysis and testing of multi-purpose energy combined systems | WG2 MODENERLANDS - Webinar | 2 February 2024 – 11:00 Cet

02. Structural Health Monitoring Techniques for Renewable Energy Systems | Dr. Ramin Ghiasi, School of Civil Engineering, University College Dublin

03. Ultra High-Performance Concrete - The ideal candidate material for renewable energy harvesting facilities - the experience of the H2020 project ReSHEALience | Dr. Ferrara Liberato, Politecnico di Milano

04. Offshore Floating Solar Energy Systems: The Malaysian Experience | Dr Wesam Alaloul, Universiti Teknologi PETRONAS (Malaysia)



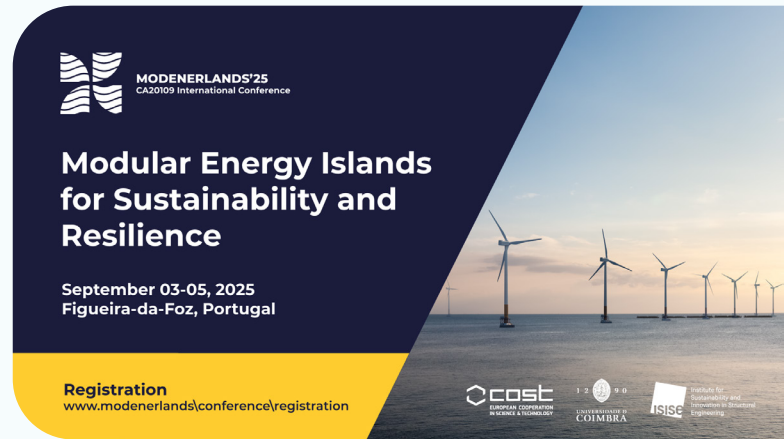
07

STORIES

MODENERLANDS Conference

Modular Energy Islands for Sustainability and Resilience
September 03-05, 2025 | Figueira-da-Foz, Portugal

The International Conference will mark the conclusion of four years of collaboration and networking supported by the COST Association, taking place on September 03–05, 2025, in Figueira da Foz, Portugal. Modenerlands'25 serves as a vital platform for knowledge dissemination across Europe, aiming to attract leading researchers, scientists, and emerging talents. Their collective expertise and insights will significantly advance the objectives of the Action.



COST MOBILITY

Are you interested in taking part?

For more information about our opportunities,
check our website.



VISIT WEBSITE

www.modenerlands.eu

COST Mobility

Are you interested in our mobility opportunities?
We offer:

SHORT TERM SCIENTIFIC MISSIONS (STSMS)

STSMS are open for researchers and innovators employed at institutions in countries participating in the MODENERLANDS action or at approved institutions.

▶ KNOW MORE

INCLUSIVENESS TARGET COUNTRY (ITC) CG

ITC Conference Grants aim to support researchers and innovators affiliated in COST ITCs or Near Neighbour Countries (NNC) to help individuals attend beneficial international conferences not organized by COST Actions and present their work as an oral presentation. action or at approved institutions.

▶ KNOW MORE

VIRTUAL MOBILITY GRANTS

Virtual Mobility consists of collaboration in a virtual setting among researchers or innovators within MODENERLANDS to exchange knowledge and learn new techniques.

▶ KNOW MORE

YOUNG RESEARCHER AND INNOVATOR (YRI) CG

The YRI Conference Grant supports Young Researchers and Innovators of less than 40 years old by funding their participation in high-level conferences not organized by COST Actions, where they can present their work as a poster or an oral presentation.

▶ KNOW MORE

DISSEMINATION CONFERENCE GRANT (DCG)

DCGs consist of an oral presentation by an Action Participant of the work of the Action in high level conferences fully organized by a third party, i.e., not organized nor co-organized by the COST Action.

▶ KNOW MORE