

TOWARDS A SUSTAINABLE FUTURE



INTERNATIONAL CONFERENCE
ON THE ENERGY TRANSITION

CAGLIARI-CARBONIA | 27-29 JANUARY 2026

FINAL PROGRAMME

ORGANISED BY



WITH THE PARTICIPATION OF



MINISTERO DELL'AMBIENTE
E DELLA SICUREZZA ENERGETICA



ITALIAN NATIONAL AGENCY FOR
NEW TECHNOLOGIES, ENERGY AND
SUSTAINABLE ECONOMIC DEVELOPMENT



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DI CAGLIARI



The International Conference on the Energy Transition will bring together global policymakers, researchers, industry leaders, and financiers to accelerate the shift toward a sustainable, low-carbon future. Over three days, the program covers:

Day 1: Global climate scenarios, regional energy policies, and strategies for a just and inclusive transition

Day 2: Low-carbon technologies, with an emphasis on green hydrogen, innovation, and public-private partnerships

Day 3: Workshop –Just Transition:
The Sardinian Case as a European Model

This global forum will unite policymakers, researchers, industry leaders, financiers, and civil society to accelerate the transition to a low-carbon, sustainable future. The program blends high-level policy discussions, deep dives into breakthrough technologies, and practical financing strategies—focusing on solutions that are just, inclusive, and globally coordinated.

Attendees will engage in an event designed to spark partnerships and create actionable roadmaps for decarbonization.

The Day 3 workshop will be held in Carbonia and there will be a shuttle service from and to Cagliari for all the delegates attending the conference.

Venues



Cagliari, T Hotel
January 27–28, 2026



Carbonia, Sotacarbo Research Centre
January 29, 2026



- Admission is free and reserved to the first 150 registered visitors.
- **To book your place**, please register through this link (limited seats)
<https://secure.onlinecongress.it/onlinecongress/secure/form.aspx?guid=6549498242170777692087809>
- Participation in the conference ensures Professional Training Credits (CFP) for members of the Order of Engineers in the Province of Cagliari, in accordance with current legislation.
- **Languages:** Italian-English (Simultaneous translation service provided)

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Day 1 The Energy Transition in the World: Scenarios, Policies & Strategies

Venue: Cagliari, T Hotel

Morning sessions

8:30-9:15 Registration and welcome coffee

9:15-9:30 Opening remarks

Address by the Conference Chairman

Dr Mario Porcu, CEO, Sotacarbo

9:30-10:00 Plenary Session Global Climate Scenarios & the Urgency of the Transition

Address by the President of the Sardinian Region

Hon. Alessandra Todde

Address by the Italian Ministry of the Environment

Hon. Gilberto Pichetto Fratin

10:00-11:20 Session 1 Energy resilience and security – I

Moderator: Dr. Noel Simento, Former Director ANLEC

10:00 World Outlook for the energy transitions

Dr. Carl Greenfield, Energy Analyst, IEA

10:20 The swinging energy transition of the US

Dr. Charles Taylor, Energy Analyst, ONE

10:40 Asia: Challenges & opportunities in the energy market
and China's leadership role

Drs. Binqing Yang, Energy Analyst, Ember

11:00 US and Europe's path towards competitiveness
and sustainability

Dr. Toby Lockwood, Director of Carbon
Management Practice, CATF

Coffee break

11:40-13:00 Session 2 Energy resilience and security – II

Moderator: Dr. Charles Taylor, Energy Analyst, Only Natural Energy (ONE)

11:40 Latin America's energy outlook

Prof. Griselda Lambertini, Director, CEARE,
University of Buenos Aires

12:00 Africa: Pathways for clean energy expansion

Dr. Barry MacColl, Snr Regional Manager,
Electric Power Research Institute (EPRI)

12:20 Oceania: Net-zero pathways – Australia case study

Dr. Noel Simento, Former Director, ANLEC

12:40 IPCC Climate Change 2025 outlook

Dr. Paolo Bertoldi, Senior Expert, EU

Commission / IPCC WG III

Lunch break

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Day 1 The Energy Transition in the World: Scenarios, Policies & Strategies

Venue: Cagliari, T Hotel

Afternoon sessions

14:00-15:20 Session 3 The Energy Transition in Italy

Moderator: Prof. Lesley Sloss, Macquarie University Sydney

14:00 The Italian Energy Mix evolution for climate neutrality and energy security

Prof. Franco Cotana, CEO, RSE

14:20 Italy: Funding the scale-up of low carbon technologies

Drs. Stefania Crotta, Director General, Ministry of the Environment

14:40 From research to deployment: technology transfer pathways in the energy transition

Prof. Maria Chiara Zanetti, Deputy Rector, Territorial, National and European Policies, Politecnico di Torino

15:00 Power shift: how renewables are reshaping electrical infrastructure

Prof. Fabrizio Pilo, Deputy Rector, Electrical Systems for Energy, University of Cagliari

15:20-16:40 Session 4 Hurdles, Challenges and Opportunities

Moderator: Dr. Barry MacColl, Senior Regional Manager, EPRI

15:20 Ravenna CCS, the first industrial CCS project in Italy

Dr. Roberto Ferrario, Knowledge Owner CCUS, ENI

15:40 Pumped Storage Hydropower: a decisive complement to the renewable energy revolution

Prof. Giorgio Querzoli, Department of Civil, Environmental, and Architectural Engineering, University of Cagliari

16:00 Accelerating emission reductions from retiring conventional energy fleets?

Prof. Lesley Sloss, Macquarie University of Sydney

16:20 The public acceptance: an issue or an opportunity?

Dr. Niall Dunphy, University of Cork

Coffee break

17:00-18:00 Roundtable A Global Transition: Where do we go?

Moderator: Prof. Sergio Garibba, Pillar II-Energy Coordinator, EUSAIR

Prof. Fabrizio Pilo, Deputy Rector, Electrical Systems for Energy, University of Cagliari

Dr. Noel Simento, Former Director, ANLEC

Dr. Carl Greenfield, Energy Analyst, IEA

Prof. Griselda Lambertini, Director, CEARE, University of Buenos Aires

Dr. Binqing Yang, Energy Analyst, Ember

19:45 Pre-dinner reception

20:30 Social dinner

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Day 2 Low-Carbon Technologies & Green Hydrogen

Venue: Cagliari, T Hotel

Morning sessions

9:00-10:20 **Session 5 Energy resilience and security – I**

Moderator: Prof. Michele Mascia, Department of Mechanical, Chemical, and Materials Engineering, University of Cagliari

9:00 The role of turbomachinery industry in supporting the energy transition

9:20 Waste-to-X: technology development programs perspectives

9:40 Thermochemical recycling of plastic waste

10:00 Carnot Batteries: Perspectives, Open Challenges, and Ongoing Projects

Dr. Franco Rosatelli, CTO - ENGINTEC SpA,
Emeritus Member - ETN Global

Prof. Umberto Arena, Environmental Sciences and Technologies, University of Campania

Prof. Tiziano Faravelli, Chemistry, Materials and Chemical Engineering, Politecnico di Milano

Prof. Mario Petrollese, University of Cagliari

Coffee break

10:40-12:40 **Session 6 Prospects for Green Hydrogen and its Derivatives**

Moderator: Prof. Giorgio Cau, Department of Mechanical, Chemical, and Materials Engineering, University of Cagliari

10:40 A stronger role for Hydrogen

11:00 The green hydrogen value chain

11:20 H2O/CO2 as platform molecules for the energy transition

11:40 Waste Carbon to Marine Fuel & SAF

12:00 From Vision to Reality: Three Hydrogen Valley Experiences

12:20 Current demand and future prospective of hydrogen use in industry

Dr. Giorgio Graditi, General Director, ENEA

Drs. Cristina Maggi, Director, H2IT

Dr. Domenico Ferrero, Department of Energy (DENERG), Politecnico di Torino

Prof. Vinu Ravikrishnan, Chemical Engineering, IITM

Dr. Davide Tomasi, Sustainable Fuels R&D Project Manager, RINA

Dr. Horst Steinmüller, Chairman, WIVA P&G

Lunch break

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Day 2 Low-Carbon Technologies & Green Hydrogen

Venue: Cagliari, T Hotel

Afternoon sessions

14:00-15:40 Session 7 Innovation on Green Hydrogen and its Derivatives

Moderator: Dr. Binqing Yang, Energy Analyst, Ember

14:00 Electrolysis technology

Drs. África Castro Rosende, Director of Business Development, H2B2 Electrolysis Technologies

14:20 The Sulcis Hydrogen Valley: a unique synergy

Dr. Mario Porcu, CEO, and Dr. Alberto Pettinai, Research and Development Director, Sotacarbo

14:40 The Finland way: Hydrogen valley as value chain promoter and the ELECTRA project

Dr. Francesco Reda, Research Manager, VTT Finland

15:00 Renewable hydrogen projects overview: Germany & Netherlands

Drs. Paola Granados Mendoza, Technology Developer - Green Hydrogen, HyCC

15:20 Transboundary projects: H2Move

Dr. David Campos, Project Manager, H2Move project

15:40-17:00 Roundtable From intention to action

Moderator: Dr. Noel Simento, Former Director, ANLEC

Dr. Niall Dunphy, University of Cork

Dr. Cristina Maggi, Director, H2IT

Dr. Barry MacColl, Senior Regional Manager, Electric Power Research Institute (EPRI)

Prof. Vinu Ravikrishnan, Chemical Engineering, IITM

Dr. Francesco Reda, Research Manager, VTT Finland

Dr. Giorgio Graditi, General Director, ENEA

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Day 3 Workshop “The Just Transition and Territorial Development - The Sardinian Case as a European Model: The REFUEL Project”

Venue: Carbonia, Sotacarbo Research Centre

8:30-9:00 Registration and welcome coffee

9:00-9:10 Opening remarks

Address by the Conference Chairman

Dr Mario Porcu, CEO, Sotacarbo

9:10-10:00 Institutional greetings

Mayor of Carbonia

Dr. Pietro Morittu

President of Sulcis Iglesiente Provincial Council

Dr. Mauro Usai

Sardinian Region Councilor for Industry

Hon. Emanuele Cani

Sardinian Region Councilor for Budget and Planning

Hon. Giuseppe Meloni

President of the Sardinian Region

Hon. Alessandra Todde

10:00-11:20 Session 8 JTF Strategic Operation in Sardinia: the REFUEL Project

10:00 Why Strategic Operations are key to the JTF's success

Dr. Raffaele Parlangeli, JTF NP IT 21-27

National Managing Authority,

Presidenza del Consiglio dei Ministri

Dr. Marcello Capra, MASE

10:20 The much-needed synergy between JTF

and Italia's energy strategy

10:40 The REFUEL project within the regional planning

Dr. Fabio Tore, Sardinia Regional Planning

Centre, Intermediate Body JTF PT Sulcis

11:00 The REFUEL Project: a new value chain in motion

Dr. Alberto Pettinai, Sotacarbo

Coffee break

11:40-13:00 Session 9 From Coal to Green Hydrogen, towards a sustainable future: the REFUEL project and other JTF best practices

11:40 The CoalHeritage & GreenJOBS Projects:
EU RFCS in Post-Mining

Dr. Julia Haske, M.A., Research Center
of Post-Mining

12:00 The H2-HUB project

Dr. Agapi Tefiki, CERTH

12:20 Refuelling Carbonia's Renewable Energy Community

Dr. Giuseppe Girardi, Sotacarbo

12:40 How to repurpose skills and professions
in Ukraine's coal communities

Dr. Andriy Tabinskyy, ACCU

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Day 3 Workshop “The Just Transition and Territorial Development - The Sardinian Case as a European Model: The REFUEL Project”

Venue: Carbonia, Sotacarbo Research Centre

13:00-13:40 Session 10 The Energy Transition in Italy

13:00 Decarbonisation project through
an environmental justice lens

Dr. Niall Dunphy, University of Cork

13:20 Insights from the Just Transition Fund in Europe:
Opportunities, Challenges, and Policy

Dr. Balbina Gluza-Czyczerska, Manager of
Just Transition Platform, European
Commission, DG for Regional & Urban Policy

13:40-13:50 Conclusions

Lunch break

14:50-15:50 Visit of Sotacarbo Research Centre plants and labs

End of the conference

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