

# K.EY

22 / 23 / 24 MARCH

## Legend

|  |  |
|--|--|
|    | Africa                                     |
|    | CITY – Sustainable City                    |
|    | Considerations on Energetic Strategies     |
|    | DPE - Distributed Power Europe             |
|    | E ME – E Mobility Expo                     |
|    | EFFI – Energy Efficiency Expo              |
|    | Events organized by companies and partners |
|    | ForumTech                                  |
|    | Hydrogen Arena                             |
|    | Incontri di Luce                           |
|   | Opening                                    |
|  | Salotto Solare                             |
|  | Solar & Storage For Med                    |
|  | WEM – Wind Expo for Med                    |

# WEDNESDAY 22 MARCH

WEDNESDAY 22  
MARCH

10:00 -  
12:00

Energy Transition  
Arena B5 Pav.

**Events  
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Shallow geothermal energy: a valid and substantial aid to energy saving for a building totally independent of fossil sources in Europe ENGLISH LANGUAGE SESSION

Language: Italian  
Simultaneous translation: English

## **Organized by: CNR - ISAC**

The "shallow geothermal energy also called low enthalpy", uses the energy present in the subsoil up to about 100m deep from where it is possible to extract heat "constantly" (unlike all other sources) during the winter season and to give it up during the summer season.

This workshop deals with modern technologies that allow you to transform the thermal energy present in the ground into heat that can be used for other purposes (for example heating or cooling a house) resulting in absolute the "cleanest" form of alternative and renewable energy, available anywhere and installable in any type of land. The most recent innovative methodologies have been studied and developed in recent European Projects, in particular GEO4CIVHIC- <http://www.geo4civhic.eu> and Cheap-GSHPs- <http://cheap-gshp.eu> whose results are the subject of the Workshop.

## **Section Chair**

Adriana Bernardi, Research Director – National Research Council - ISAC

## **Programme**

## Introduction and welcome

Adriana Bernardi:

*The geothermal in Europe (EGEC-ETIP...)*

Adele Manzella\*

*Low enthalpy geothermal and recent European projects. Innovations and progress:*

*Cheap-GSHPs and GEO4CIVHIC*

Adriana Bernardi, CNR ISAC - Italy

*Solutions to support the preliminary assessment of the technical-economic feasibility of closed-loop geothermal systems*

Antonio Galgaro, Università di Padova/University of Padova- Italy

*Innovative coaxial heat exchangers". Some examples of application*

Luc Pockelé & Giulia Mezzasalma, RED srl - Italy

*An innovative technology for the installation of geothermal probes*

Arno Romanowski, Terra-infrastructure GMBH –Germany

*Environmental considerations of innovative shallow geothermal technologies*

Riccardo Pasquali, GEOSERV srl –Ireland

*Technique and plant engineering for restructuring using geothermal (pros/cons and solutions)*

Michele De Carli, University of Padova – Italy

*Development of Innovative Ground-Source Heat Pumps in the context of European projects*

Fabio Poletto, Hiref - Italy

*Is it possible to apply geothermal to historic buildings? Example of best practice*

Francesca Bampa, UNESCO

## Discussion and Closure

Adriana Bernardi, CNR ISAC -Italy

*\*To be confirmed*

WEDNESDAY 22  
MARCH

10:30 -

11:30

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## How to finance the Energy Communities

Language: Italian

**Organized by: MC Energy**

WEDNESDAY 22  
MARCH

10:30 -  
12:00

Girasole Room  
Pad. B7 East Hall

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## Energy efficiency and NZEB buildings with the contribution of intelligent distribution

Language: Italian

**Organized by: ABB**

WEDNESDAY 22  
MARCH

12:00 -  
13:00

Agorà City Green  
Light Stand 032 -  
B3 Pav.

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## Efficiency and Sustainability of Territories

Language: Italian

**Organized by: City Green Light**

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13:00

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Pad. B7 East Hall

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## Energy efficiency solutions for Hydrogen production plants

Language: Italian

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## Decrease of energy costs: how to continue to sell photovoltaics?

Language: Italian

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## ESCo System Program: the first online community for the energy management's actors

Language: Italian

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MARCH

14:00 -  
14:15

Hydrogen Arena  
B4 Pav.

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## Advanced Energy Management for Green Hydrogen Production Plants

Language: Italian

**Organized by: H2IT - Associazione Italiana Idrogeno**

### **Speaker**

Riccardo Martini Sustainability Global Product Portfolio Manager - ABB

WEDNESDAY 22  
MARCH

14:00 -  
14:20

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## Wind energy

Language: Italian

**Organized by: Editoriale Delfino**

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MARCH

14:00 -  
15:00

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## Sustainable design for electric vehicle charging infrastructure

Language: Italian

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14:30

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## Engineering advice in the hydrogen economy

Language: Italian

**Organized by: H2IT - Associazione Italiana Idrogeno**

### **Speaker**

Stefano Carosio, Executive Director Andrea Giugno, Project Manager - STAM

WEDNESDAY 22  
MARCH

14:20 -  
14:40

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The measurement of electrical parameters in distribution and power generation systems with power electronics, particularities, criticalities and selected equipment

Language: Italian

**Organized by: Editoriale Delfino**

WEDNESDAY 22  
MARCH

14:30 -  
14:45

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Presentation of projects on Gasification and Hydrogen Valley in disused industrial areas

Language: Italian

**Organized by: H2IT - Associazione Italiana Idrogeno**

**Speaker**

Corradetti Valerio R&D Engineer - ENERECO

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The new opportunities of Solar Belt

Language: Italian

**Organized by: MC Energy**

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15:00

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## Transformer energy efficiency, monitoring, load control and service continuity

Language: Italian

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15:00

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## The role of ILT generators in the Green and Circular Economy

Language: Italian

**Organized by: H2IT - Associazione Italiana Idrogeno**

**Speaker**

Vittorio Conte Sales & Business Development - ILT

WEDNESDAY 22  
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15:00 -  
15:25

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## Fundamentals of waste heat resource assessment for Organic Rankine Cycle (ORC) power plant development.

Language: English

**Organized by: Editoriale Delfino**

Introduction to Organic Rankine Cycle technology; definition of the boundary conditions and technical features of the waste heat resource to be considered to evaluate the feasibility and the competitiveness of this application for power generation.

Discussion

Davide Elia Lattuada

Giacomo Rufo Menghetti



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Pad. B7 East Hall

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Rules and solutions for the connection of generation plants from renewable sources to the National electricity network of medium voltage

Language: Italian

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16:00

SIRAM VEOLIA n.  
031 - Pav. D5

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Public-Private Partnership: operational experiences and perspectives in the new Procurement Code

Language: Italian

**Organized by: Siram**

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17:00

Sustainable  
Building Arena D5  
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GBC Apartments Protocol: the new tool for sustainable regeneration of existing residential buildings

Language: Italian

**Organized by: Green Building Council Italia**

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Hydrogen Arena  
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## H- MW E SIRIO 2000: Modular Systems for the Ecological Transition

Language: Italian

**Organized by: H2IT - Associazione Italiana Idrogeno**

### Speaker

Luca Giacomelli, Direttore Commerciale ERREDUE Spa

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MARCH

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16:00

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## Heat pump: an efficient, flexible and integrable technology. How sustainable is cogeneration? A long-term evaluation based on real data

Language: Italian

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15:45

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## Acting for a sustainable future

Language: Italian

**Organized by: H2IT - Associazione Italiana Idrogeno**

### Speaker

Mirco Caretti, H2E Market Unit Manager - Air Liquide Italia

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## Hydrogen prototypes from the heart of Europe

Language: English

**Organized by: H2IT - Associazione Italiana Idrogeno**

### Speaker

Josef Lexa, Business Development & Project Manager - DEVINN

WEDNESDAY 22  
MARCH

16:00 -  
17:00

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## Protection and monitoring of photovoltaic systems with 800Vac string inverter

Language: Italian

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16:45 -  
17:45

Diotallevi 2 Room  
South Hall

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## ENERGY 2043, THINKING THE WORLD IN 20 YEARS. The case of Inertia, from the first steps to the energy transition: the future is self made and in motion

Language: Italian

**Organized by: Inergia Spa**

WEDNESDAY 22

MARCH

17:00 -

18:00

Girasole Room  
Pad. B7 East Hall

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## How Artificial Intelligence increases the performance of Battery Energy Storage systems (BESS) supporting the photovoltaic systems

Language: Italian

**Organized by: ABB**

# THURSDAY 23 MARCH

THURSDAY 23  
MARCH

09:30 -  
10:15

Workshop Arena  
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2035 stop to endothermic engines: how Phoenix Contact supports electric mobility. Solutions and Innovation by Phoenix Contact as an experienced partner and complete supplier

**Organized by: Phoenix Contact**

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MARCH

09:30 -  
10:30

Ravezzi 1 Room  
South Hall

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Passive house and Near zero energy building: the experience of Piraccini+Potente Architettura

Language: Italian

**Organized by: Stefano Piraccini, Margherita Potente**

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10:30

Agorà Efficiency  
D5 Pav.

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Floating Photovoltaics - Smart Green Energy sustainable for Renewable Energy Communities

Language: Italian

**Organized by: Bryo**

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Innovation Square  
South Hall

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## The energy transition of Italian state railways for a mobility to zero emissions

Language: Italian

**Organized by: Gruppo Ferrovie dello Stato Italiane**

THURSDAY 23  
MARCH

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Hydrogen Arena  
B4 Pav.

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## Application of "green" Hydrogen in the Food & Beverage industry

Language: Italian

**Organized by: H2IT - Associazione Italiana Idrogeno**

### Speaker

Carlo Tregambe R&D manager - ICI Caldaie

THURSDAY 23  
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Building Arena D5  
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## Sustainable renovation of historic buildings

Language: Italian

**Organized by: Green Building Council Italia**

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12:00

Orchidea Room  
1st floor D6 Pav.

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## We build user's networks. Regalgrid technology for Energy Communities

Language: Italian

**Organized by: Regalgrid Europe**

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Hydrogen Arena  
B4 Pav.

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## Agrivoltaic plants: Synergy between agriculture and renewable hydrogen production

Language: Italian

**Organized by: H2IT - Associazione Italiana Idrogeno**

### Speaker

Simone Mausoli - Hydrogen Product Manager, Bureau Veritas Italia

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Workshop Arena  
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## FuturaSun: Doubles abroad and launches business plan for Italy

Language: Italian

**Organized by: FuturaSun**

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## How to finance the Energy Communities

Language: Italian

**Organized by: MC Energy**

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## From partnerships the push to the first projects - The Sapio's experience

**Organized by: H2IT - Associazione Italiana Idrogeno**

**Speaker**

Fabrizio Cardilli, Project Development Director Renewable Gases - Sapio

THURSDAY 23

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SIRAM VEOLIA n.  
031 - Pav. D5

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## Diffused self-consumption: a new opportunity for Companies and Public Administration

Language: Italian

**Organized by: Siram**



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Sustainable  
Building Arena D5  
Pav.

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## Renewable Energy Communities and sustainable construction

Language: Italian

**Organized by: Green Building Council Italia**

THURSDAY 23  
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Agorà City Green  
Light Stand 032 -  
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## The Ikigai of sustainability for companies: Control, Growth and Decarbonisation

Language: Italian

**Organized by: City Green Light**

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Girasole Room  
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## Protection and monitoring of photovoltaic systems with 800Vac string inverter

Language: Italian

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Ravezzi 2 South  
Hall

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## The educational gap for the energy transition: the essential resources for its development

Language: Italian

**Organized by: RWE Renewables Italia**

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## Decrease of energy costs: how to continue to sell photovoltaics?

Language: Italian

**Organized by: MC Energy**

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Girasole Room  
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## How Artificial Intelligence increases the performance of Battery Energy Storage systems (BESS) supporting the photovoltaic systems

Language: Italian

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## ESCo System Program: the first online community for the energy management's actors

Language: Italian

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Ravezzi 1 Room  
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## Offshore: evolution of the NTG, feasibility studies and commissioning of a wind farm

Language: Italian

**Organized by: Hitachi Energy Italy SpA**

In the last year the Italian market has proved to be very receptive to decarbonization objectives set by the European Union, showing great potential and strong will from investors, with more than 280 GW of new High Voltage (HV) connection requests received from Terna, of which 35% (99 GW) of Offshore Wind. Connection requests differ significantly from the FF55 reference scenario, both in terms of technology mix and specific quantities, which were forecast to be 70 GW by 2030, of which 12% (9 GW) from Offshore Wind.

An undoubtedly challenging scenario in which the main players, experts in different sectors, will have the opportunity to collaborate, through their own know-how, right from the initial stages in the development of projects, to optimize technical solutions, timing, and costs.

The industrial sector will find itself facing the growing demand for new products and solutions, with a still complex situation in the supply chain; while the Transmission Systems Operator is redefining its development strategy, in accordance with a much more dynamic market than expected.

In our conference we will focus on the main innovations and challenges of the offshore, starting from the development of floaters (Fincantieri), to get to the latest updated regarding the evolution of the National Transmission Grid (Terna), passing through the electrification of offshore wind farms and their connections to the high voltage grid (Hitachi Energy), aimed at preparing and supporting the country during the energy transition.

### **Programme**

#### **Welcome**

Flavio Villa, Country Manager, Hitachi Energy

#### ***The development of floaters for substations and WTG***

Giovanni Cobau, Head of Technical Support FPSO and account manager for special projects

Gianni Scherl, Chief Designer Offshore Business Unit's, Fincantieri

***From feasibility study to commissioning: offshore AC solutions for bottom-fixed, floating and subsea applications***

Ilario Scian, Global Product Manager Transformers, Hitachi Energy

***HVDC for offshore application***

Arman Derviskadic, HVDC Sales Manager Italy , Hitachi Energy

***The future of National Transmission Grid in Italy: evolution and impacts on RES***

Enrico Maria Carlini, Grid Planning, Interconnections and Permitting Director - Terna

**Q&A Session**

**Closure**

THURSDAY 23  
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Workshop Arena  
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Climate change: how the energy communities will help us in the future

Language: Italian

**Organized by: Tecnopolo di Rimini**

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Innovation Square  
South Hall

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Huawei FusionSolar Forum ITALIAN LANGUAGE VERSION

Language: Italian

Simultaneous translation: English

**Organized by: Huawei**

**Registration link:**

[https://community.solar.huawei.com/it/offline\\_detail.html?detailId=5](https://community.solar.huawei.com/it/offline_detail.html?detailId=5)

Accelerating the energy transition is not only a must-have for all of us, but also an extraordinary opportunity to build a future for the new generations and a model of sustainable economic growth. To meet this challenge we must join forces, encouraging the adoption of innovative models and investing in the know-how and skills of professionals.

For this reason, together with institutional representatives and industry experts, we will deepen market trends and the latest regulatory innovations and, like Huawei, we will present our solutions and best practices for the Residential, Commercial and Industrial segments.

Digitalization, Photovoltaics, Storage, Self-consumption and Energy Communities will be the key words that will guide this transition, at the heart of the "**Huawei FusionSolar Forum**".

**Programme**

Welcome coffee and enrollement

2:00 p.m. **Opening:** *Huawei FusionSolar for a "Zero Emission" society*

*Photovoltaics: the evolving scenario and new trends*

*Huawei FusionSolar: the 2023 novelties in Residential and Commercial sectors*

2:45 p.m. **Round Table:** *From self-consumption to Renewable Energy Communities*

Huawei FusionSolar: Customer Service & Community

Award ceremony of "FusionSolar Rising Stars"

**Closure**

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Ravezzi 2 South  
Hall

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## South Africa and Italy: joint projects towards the Just Energy Transition

Language: English

**Organized by: Andersen in Italy**

In 2023, investments in the field of clean energy are expected to reach an absolute record. More than 80% of the global economy has committed to take concrete steps towards carbon neutrality and the development of new technologies is reaching a decisive crossroad, where they will either be produced on a large scale or they will not meet expectations.

Africa is set to overtake the average global economy growth rate, with forecasts of about 4% in 2023 and 2024. A young and dynamic population that needs to win the challenge of the Just Transition towards cleaner and more accessible energy sources. South Africa needs to install at least 50GW of generation capacity to reach energy security. This scenario offers vast opportunities for cooperation between South African and Italian companies.

### Programme

#### Introduction and welcome

**Moderator:** Alberto Magnani, Il Sole 24 Ore

#### First Round of questions (institutional):

14:05 ***How is South Africa facing the Just Energy Transition?***

H.E. Nosipho N.J. Jezile, Ambassador of South Africa in Italy

14:15 ***How does Italy support Italian companies looking at operations in South Africa and the African continent in this field?***

14:25 ***What are the immediate opportunities in South Africa's Green Energy Sector?***

Rethabile Melamu, CEO, South African Photovoltaic Industry Association

14:35 ***What is the goal of the Bridge Africa-Europe cooperation initiative?***

Francesco Marconi, International Contact Partner and Desk Coordinator, Andersen in Italy

### **Second Round of questions (business):**

14:45 ***What are the technologies for decarbonization?***

Michele Ferrazzini, CEO Engineering Services for Energy

14:50 **What does a manufacturer look for when investing?**

Troy Travlos, Africa Business Development, H2 Energy

14:55 ***Introduction of the African delegation***

Marcella Uttaro, Operations, Andersen in Italy

15:20 **Q&A**

### **Closure**

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Energy Transition  
Arena B5 Pav.

**DPE - Distributed  
Power Europe**  
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Ecological transition and new EU objectives. The future of the endothermic engine and technological neutrality

Language: Italian

Simultaneous translation: English

**Organized by: IEG e Associazione Generazione Distribuita**

THURSDAY 23  
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15:00

Alperia n.025 B3  
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Renewable energy communities: an opportunity for citizens, businesses and public administrations

Language: Italian

**Organized by: Alperia**

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## The new opportunities of Solar Belt

Language: Italian

**Organized by: MC Energy**

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## Sustainable design for electric vehicle charging infrastructure

Language: Italian

**Organized by: ABB**

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## Pools 4.0 and sustainability: innovation in technologies and management to make public pools permanent places of social aggregation

Language: Italian

**Organized by: Siram**

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Workshop Arena  
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Sopra Steria presents Energy4Green. Energy transformation: time for sustainable change

Language: Italian

**Organized by: Sopra Steria**

THURSDAY 23  
MARCH

15:30 -  
16:30

Girasole Room  
Pad. B7 East Hall

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Rules and solutions for the connection of generation plants from renewable sources to the National electricity network of medium voltage

Language: Italian

**Organized by: ABB**

THURSDAY 23  
MARCH

16:00 -  
17:00

Agorà City Green  
Light Stand 032 -  
B3 Pav.

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Green and shared energy: presentation of the Opencer Platform

Language: Italian

**Organized by: City Green Light**



THURSDAY 23  
MARCH

16:30 -  
18:00

Girasole Room  
Pad. B7 East Hall

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## Energy efficiency and NZEB buildings with the contribution of intelligent distribution

Language: Italian

**Organized by: ABB**

THURSDAY 23  
MARCH

17:00 -  
18:30

Diotallevi 1 Room  
South Hall

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## Photovoltaic, Renewable Energy Communities and PPA: what are the opportunities for companies?

Language: Italian

**Organized by: SENEC and FIRE**

THURSDAY 23  
MARCH

17:30 -  
18:00

Agorà City Green  
Light Stand 032 -  
B3 Pav.

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## Smart City and Artificial Intelligence: Chatgpt as a Tool for Sustainability and Efficiency

Language: Italian

**Organized by: City Green Light**

# FRIDAY 24 MARCH

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FRIDAY 24 MARCH

09:30 -

10:15

Workshop Arena  
B7 Pav.

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## All-in-One Residential Storage Solution

Language: Italian

**Organized by: Company Canadian Solar EMEA GmbH /  
Eternalplanet Energy Co., Ltd**

FRIDAY 24 MARCH

09:30 -

11:30

Mimosa 2 Room  
B6 Pav

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## Updates on regulations and activities of EGE and Energy Manager

Language: Italian

**Organized by: Assoege**

FRIDAY 24 MARCH

10:00 -

11:30

Girasole Room  
Pad. B7 East Hall

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## Energy efficiency and NZEB buildings with the contribution of intelligent distribution

Language: Italian

**Organized by: ABB**

FRIDAY 24 MARCH

10:00 -  
12:00

Orchidea Room  
1st floor D6 Pav.

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We build user's networks. Regalgrid technology for Energy Communities

Language: Italian

**Organized by: Regalgrid Europe**

FRIDAY 24 MARCH

10:00 -  
13:00

Giulla Room South  
Hall

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CO2 emissions: everyone talks about them, we measure them

Language: Italian

**Organized by: Origins.earth**

FRIDAY 24 MARCH

10:30 -  
11:15

Workshop Arena  
B7 Pav.

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Sopra Steria presents PlanTech. Sustainable transformation: thinking and acting

Language: Italian

**Organized by: Sopra Steria**

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10:30 -  
11:30

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How to finance the Energy Communities

Language: Italian

**Organized by: MC Energy**

FRIDAY 24 MARCH

11:00 -  
12:00

SIRAM VEOLIA n.  
031 - Pav. D5

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## Decarbonisation of the paper industry

Language: Italian

FRIDAY 24 MARCH

11:30 -  
12:30

Girasole Room  
Pad. B7 East Hall

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## Rules and solutions for the connection of generation plants from renewable sources to the National electricity network of medium voltage

Language: Italian

**Organized by: ABB**

FRIDAY 24 MARCH

12:00 -  
12:30

Alperia n.025 B3  
Pav.

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## Biomethane, a new sustainable fuel: technology and potential developments

Language: Italian

FRIDAY 24 MARCH

12:30 -

13:30

Girasole Room  
Pad. B7 East Hall

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## Sustainable design for electric vehicle charging infrastructure

Language: Italian

**Organized by: ABB**

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12:30 -

13:30

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## Decrease of energy costs: how to continue to sell photovoltaics?

Language: Italian

**Organized by: MC Energy**

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13:30 -

14:30

Girasole Room  
Pad. B7 East Hall

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## ESCo System Program: the first online community for the energy management's actors

Language: Italian

**Organized by: ABB**

FRIDAY 24 MARCH

14:00 -

16:00

Energy Transition  
Arena B5 Pav.

**DPE - Distributed  
Power Europe**  
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## Distributed generation of electricity: opportunities and rules

Language: Italian

**Organized by: NT24.it**

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14:00 -  
17:00Neri 1 Room South  
Hall

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## Renewable Energy Communities: how to make it a unique and sustainable opportunity

Language: Italian

**Organized by:** Prospecta Formazione in collaboration with Infobuildenergia

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14:30 -  
15:30Ravezzi 2 South  
Hall

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## How to reduce the energy costs of an hotel

Language: Italian

**Organized by:** PARADIGMA ITALIA S.p.A.

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15:30Girasole Room  
Pad. B7 East Hall

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## Protection and monitoring of photovoltaic systems with 800Vac string inverter

Language: Italian

**Organized by:** ABB

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15:30

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## The new opportunities of Solar Belt

Language: Italian

**Organized by:** MC Energy

