

Workshops and Topics-CEC

| 8 July (Day 1) | | |
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| Parallel session | | |
| Hours | Room1 | Room2 |
| 14.30-17.30 | Wk2- Oil and Gas E&P Technical Solutions and the Roadmap to 2050 and Energy Transition | Wk7- Electromobility and the Electrical Grid: Challenges and Solutions |
| 9 July (Day 2) | | |
| Parallel session | | |
| 10.00-13.00 | | Wk1-Energy Security in the Mediterranean basin through the Interconnection and market Integration.) |
| 14.30-17.30 | | Wk6- Local Energy Communities Solutions Supporting Regional Growth |
| 10 July (Day 3) | | |
| Parallel session | | |
| 10.00-13.00 | Wk3- Hydrogen Paving the Way to Energy Transition | Wk5- Sustainable Growth of Geographical Energy Islands |

| 1. Energy Security in the Mediterranean basin through the Interconnection and market Integration (9 July) | | |
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| Objective: Focus on technical aspects of interconnection and market integration to boost RES participation in the market. | | |
| Time | Title | Speaker |
| 10:00-10:15 | Energy developments and security perceptions in the Eastern Mediterranean | Dr. Marika Karayianni |
| 10:15-10:30 | Power Electronics - Energy transition enabling technology | Dr. Andreas Stavrou |
| 10:30-10:45 | Energy Paradigm Shift: Eunice Interconnections and the New Energy Era of the SE Mediterranean | Mr. George Pechlivanoglou |
| 10:45-11:45 | Roundtable discussion: Opportunities and barriers for the interconnection of countries in the Mediterranean basin | Moderator: Dr. Andreas Stavrou Special contributors: Mr. Costas Stampolis-IENE Mr. Yossi Amrani-Israel ambassador prof. Yannis Maniatis-virtual |

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| 11:45-12:05 | Coffee break | |
| 12:05-12:20 | The H2020 Cyber-MAR project: Cyber preparedness actions for a holistic approach and awareness raising in the MARitime logistics supply chain and beyond | Dr. Eleftherios Ouzounoglou |
| 12:20-12:35 | Green Heat Module (GHM) – An electrifying-everything technology for CO2-free heat in Greek Industries | Mr. Johannes Schrufer |
| 12:35-12:50 | Grid Efficiency Matters: Learn How Advanced Conductors Rapidly Add Capacity and Efficiency | Mr. David Townley |
| 12:50-13:00 | Wrap up section: Notes and Conclusions | Dr. Andreas Stavrou |

2. Oil and Gas E&P Technical Solutions and the Roadmap to 2050 and Energy Transition.

Objective: Focus on the new trends and technical solutions that will allow the O&G companies to shift their mode of operation to more environmentally friendly and yet efficient models.

| Time | Title | Speaker |
|-------------|---|---|
| 14:45-15:00 | tbu | Mr. Fernando Kalligas |
| 15:00-15:15 | Exploration for CCS (CO2 Capture & Geological Storage) Potential in Greece and Key Controlling Factors | Dr. Spyros Bellas |
| 15:15-16:15 | Roundtable discussion: Realities and challenges on shifting from O&G to green energy centric system. | Moderator: Dr. Andreas Stavrou Special contributors: Mr. Charles Ellinas all speakers of the workshop |
| 16:15-16:35 | Coffee break | |
| 16:35-16:50 | Cyprus Natural Gas Developments and Role of Gas in Energy Transition | Dr. Mike Efthymiou |
| 16:50-17:05 | Wrap up section: Notes and Conclusions | Dr. Andreas Stavrou |

3. Hydrogen paving the way to energy transition.

Objective: Set the context of how sustainable hydrogen can be a promising solution for enabling the energy transition.

| Time | Title | Speaker |
|-------------|--|---|
| 10:00-10:15 | Hydrogen – Safety considerations and risks | Dr. Ioannis Aspirtakis |
| 10:15-10:30 | Make hydrogen projects real: Considerations and proposals | Mr. Thomas Kollias/Miss Vasilia Alexopoulou |
| 10:30-10:45 | Hydrogen Powered Ships | Mr. Nick Newman |
| 10:45-11:45 | Roundtable discussion: Opportunities and obstacles for a broad development of sustainable hydrogen | Moderator: Makis Ketonis(Hydrogen-Cyprus) Special contributors: Jorjo Chatzimarkakis (Hydrogen Europe-virtual) Mr. Stefatos(Hellenic Hydrocarbon Resources Management) |
| 11:45-12:05 | Coffee break | |
| 12:05-12:20 | Wrap up section: Notes and Conclusions | Makis Ketonis(Hydrogen-Cyprus) |

5. Sustainable Growth of Geographical Energy Islands.

Objective: Introduce the current energy production methods and define the path for the sustainable growth of geographical energy islands.

| Time | Title | Speaker |
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| 10:00-10:15 | Wind Energy Services on WECs & WFs management, supervision, OE services in Greece & Worldwide | Mr. Giannis Papadakis |
| 10:15-10:30 | An innovative concept of a sustainable trigeneration system for Mediterranean islands | Prof. Spiros Alexopoulos |
| 10:30-10:45 | Towards a sustainable and decarbonized Crete | Maria Apostolaki |
| 10:45-11:45 | Roundtable discussion: Can a geographical island have 100% renewable energy production? | Moderator: Dr.Loizos Loizou Special contributors: 1.Mr. Sifakis 2.Euclean energy islands initiative(virtual) 3. Mytilineos representative |
| 11:45-12:00 | Coffee break | |
| 12:00-12:15 | tbu | Mr. Takis Ktenidis |
| 12:15-12:30 | tbu | Mr. Antonis Xenios |

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| 12:30-12:45 | Green Ports: Operation of electrified ports and their role as energy hubs in modern electrical networks." | Dr. Stefanos Dallas |
| 12:45-12:55 | Wrap up section: Notes and Conclusions | Dr.Loizos Loizou |

6. Local Energy Communities Solutions Supporting Regional Growth.

Objective: Introduce the concept of local energy communities and how they can support the regional growth in the energy transition.

| Time | Title | Speaker |
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| 14:30-14:45 | Blockchain application in the energy sector | Dr. Dimitrios Arvanitis |
| 14:45-15:00 | The digital monitoring and evaluation platform of zero energy districts The way towards a digitalized future | Dr. Kostas Gobakis/Prof. Denia Kolokotsa |
| 15:00-15:15 | Shaping Socially Inclusive and Trustworthy (Digital) Energy Transition pathways | Mr. Tasos Tsitsanis |
| 15:15-15:30 | Production licenses for Renewable Energy Projects and Energy Communities | Dr. Dimitris Psychoyios/ Charalampides Giannis |
| 15:30-16:30 | Roundtable discussion: How can regional growth be reinforced through the use of local energy communities? | Moderator: Dr. Christina Papadimitriou Special contributors: 1.Mr.Athanasios Kyriazis 2.Dr.Ahmed Mohina |
| 16:30-16:45 | Coffee break | |
| 16:45-17:00 | The Italian framework for the Renewable Energy Communities | Prof. Emilio Ghiani |
| 17:00-17:15 | Emerging energy harvesting Technologies in smart cities of the future: From self-powered IoT towards solar farms | Prof. Emmanuel Kymakis |
| 17:15-17:30 | More local added value by smart energy technology | Mr. Thomas Walter |
| 17:30-17:45 | Multi-vector, Local Energy Systems Delivering Net Zero & Just Energy Transition | Dr. Dimitris Tzelepis/Dr. Anastasios Rousis |
| 17:45-17:50 | Wrap up section: Notes and Conclusions | Dr. Christina Papadimitriou |

7. Broad Development of Electromobility: Challenges and Solutions.

Objective: Investigate the advantages and the disadvantages of electromobility and the challenges and solutions towards reaching the Paris summit environmental goals.

| Time | Title | Speaker |
|-------------|---|---|
| 14:30-14:45 | Research and innovation to accelerate the transition to electromobility: an overview of the 2Zero partnership | Miss Lucie Beaumel |
| 14:45-15:00 | An efficient, economic, sustainable and flexible way of being mobile | Dr. Venizelos Efthymiou |
| 15:00-15:15 | tbu | Mr. Jose Oliveira |
| 15:15-16:15 | Roundtable discussion: How to prepare urban regions for mass adoption of EVs | Moderator: Dr. Venizelos Efthymiou Special Contributor: Dr. Luciano Martini (RSE) |
| 16:15-16:35 | Coffee break | |
| 16:35-16:50 | E-mobility: The research perspective | Dr. Evangelos Karfopoulos |
| 17:05-17:20 | Wrap up section: Notes and Conclusions | Dr Venizelos Efthymiou |