



12 - 14 October 2023
Hilton Hotel Nicosia Cyprus



Under the auspices of His Excellency The President
of the Republic of Cyprus Mr Nikos Christodoulides

7th International Conference on Renewable Energy Sources & Energy Efficiency

Programme

www.resee-cy.com

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Διεύθυνση Συστημάτων Μεταφοράς
Transmission Systems Operator - Cyprus



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SECRETARIAT





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Dear Esteemed Participants and Distinguished Guests,

It is with great pleasure and a profound sense of purpose that I extend a warm welcome to all of you attending the 7th International Conference on Renewable Energy Sources & Energy Efficiency (RESEE2023). We are indeed honored to have you here with us. Organized jointly by the Cyprus Chamber of Commerce and Industry, the Ministry of Energy, Commerce, and Industry of Cyprus, and the International Renewable Energy Agency, this conference holds significant importance as it marks a collaborative effort toward a sustainable energy future.

I would like to express our heartfelt gratitude to the President of the Republic of Cyprus, Mr Nikos Christodoulides, for graciously putting this conference under his auspices. This endorsement underscores the commitment of the highest office in the land to the ideals and goals that we collectively strive to achieve during RESEE2023.

This year's conference gains additional prominence with the participation of the International Renewable Energy Agency (IRENA), an organization dedicated to promoting renewable energy worldwide. While not the sole focus of our event, IRENA's involvement underscores the global significance of our discussions. IRENA's expertise in renewable energy and its extensive reach across nations bring invaluable insights and perspectives to the table.

RESEE2023 offers a unique platform for experts, researchers, policymakers, and industry leaders to exchange ideas and foster innovation in the fields of renewable energy and energy efficiency. We have gathered a diverse group of participants from around the world who will contribute their knowledge and experiences to our discussions. As we navigate the pressing challenges of climate change and energy security, our focus on renewable energy sources and energy efficiency becomes increasingly critical. The collective knowledge shared during this conference will play a vital role in shaping strategies and solutions to address these challenges effectively.

In closing, I would like to express our gratitude to all participants for their dedication to the cause of sustainable energy. Your presence and active engagement are the driving forces behind the success of RESEE2023. We encourage you to network, collaborate, and seize the opportunities presented during this conference. Together, let us embark on a journey towards a greener and more sustainable future. Thank you for joining us at RESEE2023, and we look forward to the enlightening discussions and collaborations that will undoubtedly emerge in the days ahead.

Once again, I am most grateful for your participation and support. I wish you a fruitful conference ahead.

Professor Ioannis Michaelides
Conference Chairman



Dear Colleagues, Dear Friends,

on behalf of the Scientific Committee of the 7th International Conference on Renewable Energy Sources and Energy Efficiency – Energy Security, it is my great pleasure to welcome everyone to the event, which, after the interruption due the Covid pandemic and against the background of the volatility in the energy markets, is taking place this year.

The scientific committee has worked for almost a year towards laying the foundations for this scientific feast in Nicosia, Cyprus. More than 70 papers were received, reviewed and revised so that 51 were finally selected to be presented.

The focus is on showcasing the original research work, but also the work on policies and strategies, carried out in universities and research centers as well as in international and national authorities and organizations, from more than 10 countries, covering a wide spectrum from state of the art renewable energy technologies to the energy efficiency of buildings and from the elaboration and implementation of policies to meeting new challenges in the environmental and economic field.

Furthermore, this year we are proud to introduce some new features:

- a session dedicated to presenting the research activities of Cyprus universities and institutions,
- a poster and discussion session, where graduate students and young researchers can present their work and receive feedback from the visitors, and
- a "Meet the Editors' workshop, where 3 Editors of established journals will provide guidance to PhD students and less experienced researchers, on how to prepare quality submissions.

I am confident that in addition to joining the interesting sessions and participating in the workshops, this year organized by IRENA, there will be ample opportunities of exchanging our views and discussing ideas for future projects and co-operation.

I would like to thank all the members of the scientific committee who contributed their valuable time and hereby welcome all of you to this scientific extravaganza.

Professor Agis M. Papadopoulos
Chairman of the Scientific Committee

The aim of the RESEE2023 is to bring together key stakeholders of renewable energy and energy efficiency to discuss and share best practices, lessons learned and opportunities to advance the accelerated uptake of renewables and energy efficiency interventions in Cyprus and in similar economies.

The conference will provide an avenue for policymakers, researchers, scientists, manufacturers, companies, communities representatives, development agencies, international organizations, financing institutions, private sector and governments in keeping abreast of new developments that will facilitate energy transition efforts and provide opportunities for partnerships and collaborations to address the barriers and challenges.

Furthermore, the conference will bring together the United Nations Peacekeeping Missions around the world that wish to decarbonize their energy supply systems and reduce environmental footprint contributing to the UN Secretary General's Climate Action Plan target of 80% renewable energy by 2030.

WHO SHOULD ATTEND

- Decision makers, Ministers, managers, and public sector policymakers.
- Representatives of national and international organisations willing to share relevant analyses on technology, innovation, policy, finance and experience on renewable energy adoption and sustainable use of all forms of renewable energy, promotion of energy efficiency techniques and the role of digitalization.
- Regulators, utilities and operators enriching the conference with their views on the changing needs of systems in delivering the quality of supply and flexibility that everybody expects.
- Members of the research and academic communities aiming at exchanging results, sharing experiences and work on new technologies.
- Practitioners, such as architects, engineers, energy consultants and project developers to discuss challenges and solutions to deliver renewable energy projects.
- Investors interested in investing on renewable energy, energy efficiency and innovative and smart technologies.

VENUE

Hilton Hotel, Nicosia, Cyprus

CONFERENCE PRESENTATIONS

- The presentation of all the selected papers will be 15 minutes long. Each session will be followed by a 10-minute discussion.
- Conference proceedings: All accepted papers and the papers of the invited speakers will be available to the registered participants in the Conference webpage: www.resee-cy.com.
- Official language: The official language of the conference is English.

SPECIAL SESSIONS

Meet the Editor

Aimed at assisting young and less experienced researchers and PhD students in preparing high-quality submissions. Attendees will have the chance to interact with experienced editors and learn from their vast knowledge and expertise. Our distinguished panel consists of three renowned researchers and authors who lead the Editorial Committees of esteemed peer-reviewed journals in the field of energy and efficiency:

- **Professor Agis Papadopoulos**
Aristotle University of Thessaloniki, Greece
Associate Editor in "Energy and Buildings" (Elsevier)
- **Professor Sandro Nižetić**
University of Split, Croatia
Editor in Chief of "Energy Sources Part A: Recovery, Utilization and Environmental Effects" (Taylor & Francis)
Associate Editor of "Journal of Cleaner Production" (Elsevier)
Associate Editor of "Solar Energy Journal" (Elsevier)
- **Moderator: Associate Professor Paris Fokaides**
Frederick University, Nicosia, Cyprus
Editor in Chief of the "International Journal of Sustainable Energy" (Taylor & Francis)

Meet the Research Centres

Aimed at presenting the activities of the main research centres in the field of energy in Cyprus. A first class opportunity for the different stakeholders in the field of energy as well as the promising researchers working in the field to get to know the centres and interact with them. The presentations will be followed by a short discussion on the challenges and opportunities associated with the green energy transition.

- **Moderator: Prof. George Georghiou**
University of Cyprus

Students' Poster Session

We are excited to announce a special Students' Poster Session as part of the RESEE 2023 conference. This session provides a fantastic opportunity for students to showcase their research and engage in fruitful discussions with both conference participants and fellow students.

We welcome any research related to renewable energy sources and energy efficiency. The Students' Poster Session will be accessible to all conference attendees. It promises to be an inclusive and vibrant gathering of scholars and students passionate about the field.

- **Moderator: Assoc. Prof. Dr. Ing. Paris Fokaides**
Frederick University, Nicosia

ORGANISING COMMITTEE

Chair:	Ioannis Michaelides , formerly at the Cyprus University of Technology
Co-Chair:	George Georgiou , University of Cyprus Theodoros Zachariadis , The Cyprus Institute Gurbuz Gonul , International Renewable Energy Agency
Members:	Andreas Andreou , Cyprus Chamber of Commerce and Industry George Partasides , Ministry of Energy Commerce and Industry Agis Papadopoulos , Aristotle University of Thessaloniki Nestor Fylaktos , The Cyprus Institute Alexandros Charalambides , Cyprus University of Technology Theocharis Tsoutsos , Technical University of Crete Charis Doukas , National Technical University of Athens Michalis Komodromos , Frederick University Antonis Zorpas , Open University of Cyprus Christos Maxoulis , Cyprus Scientific and Technical Chamber Constantinos Rouvas , Electricity Authority of Cyprus Panayiotis Keliris , Cyprus Energy Regulatory Authority Michalis Syrimis , Cyprus Transmission System Operator Savvas Vlachos , Cyprus Energy Agency Marios Menelaou , Natural Gas Public Company George Martides , Deloitte

STEERING COMMITTEE

Ioannis Michaelides (Chair), formerly at the Cyprus University of Technology
Andreas Andreou, Cyprus Council of Commerce and Industry
George Partasides, Ministry of Energy, Commerce and Industry
Arieta Gonelevu Rakai, International Renewable Energy Agency

SCIENTIFIC COMMITTEE

Chair:	Agis Papadopoulos , Aristotle University of Thessaloniki, Greece
Co-Chair:	Efrosyni Giama , Aristotle University of Thessaloniki, Greece
Members:	Alexandros Charalambides , Cyprus University of Technology, Cyprus Stelios Choulis , Cyprus University of Technology, Cyprus Chris Christodoulou , Frederick University, Cyprus Danae Diakoulaki , National Technical University of Athens, Greece Haris Doukas , National Technical University of Athens, Greece Vasiliki Drosou , Centre for Renewable Energy Sources, Greece Polyvios Eleftheriou , Cyprus University of Technology, Cyprus Flourentzos Flourentzou , Estia SA, Switzerland Paris Fokaides , Frederick University, Cyprus George E. Georgiou , University of Cyprus, Cyprus Marios Georgiou , The Cyprus Institute, Cyprus Ghalib Kahwaji , Rochester Institute of Technology, Dubai Harry Kampezides , National Observatory of Athens, Greece George Karagiorgis , Frederick University, Cyprus Athanasios Kolios , Cranfield University, UK Isaac Meir , Ben Gurion University of the Negev, Israel Marina Neophytou , University of Cyprus, Cyprus Sandro Nizetic , University of Split, Croatia George Papadakis , Agricultural University of Athens, Greece Konstantinos Papakostas , Aristotle University of Thessaloniki, Greece Lina Seduikyte , Kaunas University of Technology, Lithuania Despina Serghides , The Cyprus Institute, Cyprus Chryso Sotiriou , ideopsis Ltd, Cyprus Theodoros Theodosiou , Aristotle University of Thessaloniki, Greece Maja Todorovic , University of Belgrade, Serbia Antonis Tourlidakis , University of Western Macedonia, Greece George Tsilingiridis , Aristotle University of Thessaloniki, Greece Derek Wilson , Institution of Engineering and Technology, UK

CONFERENCE FEES

- Early Registration before 1st October 2023 € 350
- Registration after 1st October 2023 € 450
- Students € 100

Fees cover the admission to all sessions, invitation to all coffee breaks, one lunch, conference material, and VAT.

REGISTRATION

To register please visit www.resee-cy.com.

CONFERENCE SECRETARIAT

Travelhouse By Evzonas

27A Archimides str, Engomi 2411, Nicosia.

Tel.: +357 22871100, M: +357 99697423, E-mail: ec@travelhouse.com.cy, www.travelhouse.com.cy



CONFERENCE WEB PAGE

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Renewable Energy Sources

- Renewable energy Technologies
- Biomass, bio-energy and bio-economy
- Local Production of Biofuels
- Forestation
- Energy storage technologies
- Geothermal Technologies (heating and cooling)
- Photovoltaics
- Power systems
- Mini grids and off-grid distribution systems
- Concentrated solar power technologies
- Smart networks
- Energy networks (Electricity and district heating and cooling)
- Wind energy floating technologies and storage
- Hybrid energy systems (RES + Conventional Generations)
- Solar heating and cooling
- Solar desalination
- Solar monitoring for hot water and smart applications
- Monitoring in energy systems
- Forecasting
- Electrification of healthcare facilities
- Rural electrification
- Grid Integration
- Demand Response and Demand Side Management
- Renewable Energy in Transport and the role of electrification
- The future of Renewable Technology (Hydrogen initiative)
- Self-Consumption and Isolated micro-grids
- Heat Process in Industrial Section
- The role of reserves in the Electricity Market
- Clean cooking
- Solar home systems
- Pay-as-you-go off grid solutions

Energy Efficiency and Policy

- Energy co-generation
- Energy recovery
- Energy management and economics
- Automation of energy systems
- Energy and the built environment
- Bioclimatic design of buildings and public spaces
- Smart cities, smart grids and smart meters
- Building management systems
- Heating, ventilating and air conditioning systems
- Sustainable transport
- Zero emission buildings
- Energy policy, economics and planning
- Energy and climate change
- Environmental impact
- Energy investment financing
- Energy efficiency in buildings case studies: High-rise, Marinas, Offshore Activities

New Challenges

- Security of energy supply by diversifying energy sources
- Renewable Energy Communities and Active Consumers
- Carbon capture and storage technologies, Natural Gas as a bridging fuel to hydrogen
- Digitalization and Blockchain technology in the Energy Sector
- The importance of the weather forecast in the future Energy Markets.
- Artificial Intelligence and smart applications
- The Internet of Things, Zero Marginal Cost Renewable Energy
- Fourth Industrial Revolution
- Smart charging for electric vehicles and e-mobility
- Financing small Scale Renewable Projects (there is a possibility to co-organize this section with EU at a high level)
- Case Study of UN Projects and the target towards 2030 (high level)
- The integration of RES in small islands and isolated areas (Open Market Vs Regulated Market)
- New Emerging Technologies and applications (Hydrogen, Ammonia, Carbon Capture and Storage, Floating PVs and Winds, Solar Cooling)
- Energy Storage Solutions, SWAT analysis
- Hard to Decarbonize Sectors and Energy Security, TRANSPORT Sectors.
- Energy Modelling and Data to Deal – How to attract investments from Energy Models and studies NECP, NDC, Sustainable Goals, Long Term Strategy (High Level)
- Digitalization in the Energy Sector, Energy as a Service, the role of electric vehicles, etc.
- Solar Water Heaters and Heat Pumps; their role in energy Transition (District heating and cooling)
- Energy Poverty and Energy Communities with RES (case studies and examples)
- Licensing Procedures, how to speed up, best practices (case studies)

Planning and Research in Energy and Environment

- Long Term Energy Planning
- Large scale research facilities
- Pilot and demonstration projects
- Training and certification schemes
- Impact Assessment of various policies and measures
- Circular Economy
- Fundamentals of Energy Regulation
- Pricing Environmental Pollution (taxation versus support versus tariff regulation)

The New EU Directives towards 2030

- Policy Session & the REMAP results
- Governance: Energy and Climate Plans
- The recast of the RES Directive, International Electricity Market challenges
- Pathways towards 2030 & 2050
- Electricity Interconnection challenges and the role of the Renewables.
- Cost-effectiveness of national economy-wide greenhouse gas emissions abatement measures
- Electricity Tracking in Hybrid Systems (The role of Guarantee of Origins)

Renewable Energies

- Long Term Energy Planning and REMAP Activities towards NECP
- Geothermal for heating and cooling
- Island and Regional Cooperation
- Island Tourism
- Digitalization and Blockchain technology
- Security of Energy Supply
- E-mobility and smart charging for Electric Vehicles
- Energy Communities and Active Consumers
- Energy efficiency in buildings
- The importance of the Weather Forecast in the future Energy Markets
- Rural Electrification
- Renewable Desalination Systems for Islands
- Green Hydrogen



Nikos Christodoulides

President
Republic of Cyprus



Francesco La Camera

Director-General
International Renewable
Energy Agency (IRENA)

Francesco La Camera is the Director-General of the International Renewable Energy Agency (IRENA), a position he assumed at the Ninth Assembly of IRENA, the agency's ultimate decision-making body.

With over thirty years of experience in climate, sustainability, and international cooperation, Mr. La Camera formerly served as Director-General of Sustainable Development, Environmental Damage, EU, and International Affairs at the Italian Ministry of Environment, Land & Sea. He took office on April 4, 2019, and now leads IRENA's efforts to promote renewable energy and sustainability worldwide.



George Papanastasiou

**Minister of Energy,
Commerce and Industry**
Republic of Cyprus

George Papanastasiou was appointed Minister of Energy, Commerce and Industry on March 1st 2023. He is a mechanical engineer by profession, with an HND in Mechanical Engineering from the Higher Technical Institute of Cyprus, a BSc in Mechanical Engineering from City University London and an MSc in Refrigeration and Air Conditioning from Kings College London. He worked for 26 years at BP in Cyprus, the United Kingdom and other European countries, having held various managerial positions within the company, including Cyprus' Head of Country. From 1st of October 2011 and until his appointment as Energy Minister, he was Managing Director and General Manager of VTT Vasiliko Ltd (VTTV), a subsidiary of Netherlands based VTTI B.V. Inter alia, during his tenure at VTTV he led a versatile team of professionals tasked with constructing and operating the oil storage terminal of the company at Vasilikos area. Over the course of his career, he has accumulated extensive experience in the oil and gas industry, specifically in the fields of Supply and Logistics, Health, Safety and Environment, Operations and

Engineering, Sales and Marketing, Company Governance and Compliance. He has served as President of the Board of Directors of the Cyprus Organisation for Standardisation (CYS) and the Cyprus Certification Company, President of the Cyprus – Netherlands Business Association operating under the auspices of the Cyprus Chamber of Commerce and Industry, and Member of the Board of Directors of the Cyprus Employers and Industrialists Federation. Mr. Papanastasiou was born in Nicosia on September 10th 1961. He is married to Glykeria Michailidou, they have a son, Ignatius, and reside in Nicosia.



Miriam Dalli

**Minister for the
Environment, Energy
and Enterprise**
Malta

Dr Miriam Dalli is the Minister for the Environment, Energy and Enterprise. Minister Miriam Dalli strongly advocates the need to align the Maltese Islands' economic success with environmental sustainability and a better quality of life.

Dalli's principal commitments include Malta's long-term objective to achieve carbon neutrality by 2050, the national seven-year plan to create more new open spaces in Malta and Gozo, and the attainment of the UN Sustainable Development Goals.

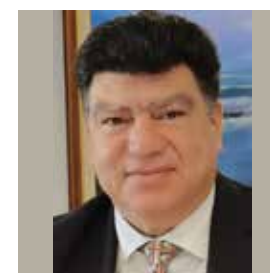
Her work also promotes sustainable business practices and supports the establishment and growth of new, innovative enterprises in Malta.

As Minister for Energy, Enterprise and Sustainable Development between 2020 and 2022, Minister Dalli directed the Government's support to shield the local economy from the negative international impacts of the Covid pandemic, with several initiatives including the Wage Supplement and the Rent and Energy

Subsidies, providing financial assistance to families and businesses. She also worked to ensure energy price stability.

This commitment to energy price stability became even more significant in 2022, when, following her re-election, as Minister for the Environment, Energy and Enterprise, Miriam Dalli actively supported the Government's decision to cushion the effect of the international energy crisis triggered by the war in Ukraine.

Minister Dalli is also pushing forward Malta's long-term plan for increased security of supply and sustainability in the energy sector, including new investment opportunities in offshore renewables and new energy interconnections with mainland Europe.



Marios Panayides

Permanent Secretary
Ministry of Energy,
Commerce and Industry

Marios Panayides is the Permanent Secretary of the Ministry of Energy, Commerce and Industry. He also served as Permanent Secretary of the Ministry of Education, Culture, Sport and Youth. Before that, he served as District Officer of Nicosia from September 2013 to October 2019.

He is a member of the board of Directors in many public benefit organizations and he has represented the Republic of Cyprus in European and International Committees, such as the Standing Committee for Construction, the European Committee of Competent Market Surveillance Authorities of Construction Products, the Consortium of European Building Control, the Steering Committee for Education Policy and Practice (Council of Europe) and the High-Level Group on Education and Training.

He holds a Bachelor's and a Master's Degree in Civil Engineering (Structural Engineering), from the National Technical University of Athens.

He has also obtained a Master's degree in Public Administration from the Cyprus International Institute of Management.

Since October 2015, he is a PhD candidate in the School of Engineering and Technology, Department of Civil Engineering and Geoinformatics, of the Cyprus University of Technology.



Andreas Poulikkas

Chairman
Cyprus Energy Regulatory
Authority (CERA)

Dr Andreas Poulikkas holds a Bachelor of Engineering (B.Eng.) degree in mechanical engineering, a Master of Philosophy (M.Phil.) degree in nuclear safety and turbomachinery, a Doctor of Philosophy (Ph.D.) degree in numerical analysis and a Doctor of Technology (D.Tech.) higher doctorate degree in energy policy and energy systems optimization from Loughborough University, U.K. He is a Fellow of the Institution of Engineering and Technology (FIET). Dr Andreas Poulikkas is currently the Chairman of the Cyprus Energy Regulatory Authority (CERA) and he was for several years the Chairman of the Cyprus Energy Strategy Council (both appointments by the President of Cyprus). In his professional career he has worked for academic institutions and for the industry, such as, a Visiting Faculty at Harvard University, USA, the Cyprus University of Technology (Professor of Power Systems and Chair of the Department of Electrical Engineering) and the Electricity Authority of Cyprus. He is the Associate Editor of the of the journal Discover Energy (Springer Nature) and of the Journal of Power Technologies, member of the Editorial Board of the journal Sustainable Energy Technologies and Assessments and the author of various peer-reviewed publications in scientific journals, book chapters, conference proceedings and the author of ten books. He is included in the World's Top 2% Scientists and the World's Top 100000 Researchers Lists, both published by Stanford University.



Charles Ellinas

CEO
E-C Natural Hydrocarbons
Company Ltd (eCNHC), UK

Over 35 years' experience in the oil & gas sector in senior management positions. Dr Ellinas is currently CEO of e-CNHC (E-C Cyprus Natural Hydrocarbons Company Ltd), providing management and advisory services in the oil & gas and energy sectors in Cyprus and the region. A lot needs to be done and the aim of the company is to contribute to the successful development of these sectors for the future of Cyprus.

Prior to this, as CEO of KRETYK Dr Ellinas was responsible for implementing Cyprus government's strategy for the development of its hydrocarbons sector. Until 2012 he was a Director of Mott MacDonald for 25 years and the Managing Director of Mott MacDonald's Oil, Gas & Petrochemicals business world-wide.



Agis Papadopoulos

Professor
Aristotle University
of Thessaloniki

Professor Agis M. Papadopoulos obtained his Diploma in Mechanical Engineering from the Aristotle University Thessaloniki (1989), his Master of Science in Energy Conservation and the Environment from Cranfield University (UK), in 1991, and his Doctorate in Mechanical Engineering, specializing on solar thermal systems, from the Aristotle University Thessaloniki in 1994. Since 1998 he is Professor on Energy Systems at the Department of Mechanical Engineering of the Aristotle University Thessaloniki and since 2013 Director of the Process Equipment Design Laboratory. His main research interests lie in the fields of Energy conservation and renewable energy resources, Energy and environmental design of buildings, and Energy and Environmental economics and policies. He has coordinated more than 65 national and international research projects and has authored or co-authored more than 120 papers published in peer reviewed journals and 270 papers in conference proceedings. He was a Visiting Professor at the University of Cyprus (2012-2013) and at the International Hellenic University (2011-2019) and is lecturing since 2015 at the Technical University of Hamburg, Germany.

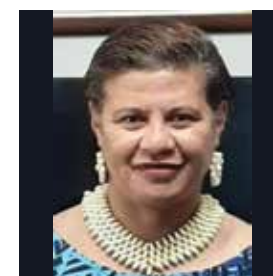


Gurbuz Gonul

**Director, Country
Engagement and
Partnerships**
International Renewable
Energy Agency (IRENA)

As Director of the IRENA's Country Engagement and Partnerships (CEP), Gurbuz Gonul oversees the Agency's work on supporting member countries in the development and implementation of national and regional renewable energy strategies and programmes through IRENA's regional initiatives, tailored country support as well as partnership initiatives.

Mr. Gonul joined IRENA in 2014 as Head of Regions Unit. Formerly, he worked as Senior Energy Economist of the Islamic Development Bank between 2010 and 2014, where he led the work for the development of an Energy Sector Policy for the Bank as well as the processing of complex loan and technical assistance projects in Africa and Asia. Between 2004 and 2010, Mr. Gonul served as Senior Expert at the Energy Charter Secretariat in Brussels, where he spearheaded policy analysis, sectoral in-depth reviews, regional / country reviews concerning energy investments, trade and transportation. He also held positions in the EU Commission's Delegation in Ankara and Turkey's Ministry of Energy since 1993. Mr. Gonul holds Master of Science and Bachelor of Science degrees in Oil and Gas Engineering from the Middle East Technical University in Ankara.

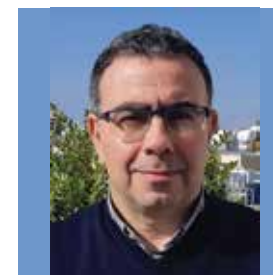


Arieta Gonelevu Rakai

**Regional Programme
Officer, Islands**
International Renewable
Energy Agency (IRENA)

Arieta Gonelevu Rakai is the Regional Programme Officer, Islands with the International Renewable Energy Agency (IRENA). She leads the Small Island Developing States (SIDS) Lighthouses Initiative that is coordinated by IRENA and facilitates the coordinated partnerships and support for a just and equitable energy transition in the island economies.

She has been working in the renewable energy sector for the last 20 years focusing on Small Island Developing States (SIDS). She holds a BTech (Electrical Engineering) from the University of the South Pacific, Fiji and a PGCert/PGDip in Energy Studies and MSc (Renewable Energy) from Murdoch University, Australia.



Theodoros Zachariadis

Professor
The Cyprus Institute

Theodoros Zachariadis is a Professor at the Energy, Environment and Water Research Centre and the Interim Director of the newly established Science and Technology Driven Policy and Innovation Research Centre (STEDI-RC) of the Cyprus Institute. He is a Vice Chair of the Scientific Committee of the European Environment Agency and a Manager at the European branch of the United Nations Sustainable Development Solutions Network (SDSN Europe). During the last years, he has been listed in the top 2% of most widely cited academics globally in the field of Energy.

He is the recipient of the 2009 Research Prize of the Republic of Cyprus and the 2019 Environmental Prize awarded by the President of the Republic of Cyprus. His research interests are on the techno-economic analysis of energy, environmental and transport policies.



George Partasides
Commercial Counselor
of Cyprus in Dubai
Ministry of Energy,
Commerce, and Industry

George Partasides, currently serving as the Commercial Counselor of Cyprus in Dubai and acting as the IRENA focal point, brings a wealth of expertise and experience to the field of energy and technology.

He is also a member of the Long-Term Strategy (LTS) team of IRENA, contributing significantly to the Ministry of Energy's responsibilities, including Energy Planning and the National Energy and Climate Plan (NECP).

In his current capacity, plays a pivotal role in supporting the Office of the Permanent Secretary within the Ministry of Energy, Commerce, and Industry.

Simultaneously, he is actively engaged in several vital projects and studies aimed at advancing energy initiatives. These encompass the development of a Digital One Stop Shop, designed to expedite the licensing procedures for Renewable Energy Projects.

He is also spearheading efforts related to the Energy Storage Support Scheme and overseeing various studies pertaining to offshore Renewable Energy Projects and Pumped Storage. He is currently pursuing his doctoral studies within the Climate and Energy Division of The Cyprus Institute, focusing on the innovative concept of "Energy as a Service" (EaaS) within the context of Cyprus, with a particular emphasis on empowering active consumers.

With a profound understanding of energy modeling tools and studies, he played a pivotal role in coordinating a comprehensive network dynamical analysis study of the entire Cyprus Electricity Grid, with the support of TSOCy, JRC, and DigSilient.

Additionally, he is responsible for conducting impact analyses of the various support schemes introduced by the Cyprus government within the energy sector.

George Partasides is renowned for his passion for technology, with concurrent engagements in software tools and cloud computing technologies.



Sandro Nižetić
Professor
University of Split (Croatia)

Prof. Dr. Sandro Nižetić is a Full Professor at the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB) at University of Split (Croatia). His research is in the field of thermodynamics, energy, energy efficiency in buildings, smart technologies and renewable energy sources.

He has worked on various projects related to the implementation of energy efficiency measures in public buildings under the auspices of UNDP (United Nations Development Programme). He was also the head of the several national research's projects. He also served as a Deputy Minister in the Ministry of Construction and Spatial Planning in the Croatian government, and also as Vice Dean of Research at FESB.

Prof. Dr. Nižetić has published over 200 research and conference papers, as well as several techno-economic professional case studies. He is the Editor-in-Chief of the Energy Sources Part A (Taylor&Francis), Associate Editor in the Journal of Cleaner Production (Elsevier) and Associate Editor in the Solar Energy Journal (Elsevier).

For his research work he received several major awards including the National award for the research for 2016 and 2021, as well as also Rector prize for the research from the University of Split for 2018 and 2020.



Venizelos Efthymiou
Chairman of the
Research Centre FOSS
University of Cyprus

Dr Venizelos Efthymiou worked for the Electricity Authority of Cyprus from March 1979 up to November 2013 and he left the Company from the post of Executive Manager Networks / Distribution System Operator of Cyprus. He is a member of the Steering Committee of the ETIP SNET, of ETIP PV, of the DSO committee of EURELECTRIC, of the Steering Committee of the SET Plan and of the Horizon Europe Programme Committee.

He is the Chairman of the Research Centre FOSS of the University of Cyprus and director of EPL Technology Frontiers Ltd. Through his extensive experience in EAC, the close and continuous cooperation with the University of Cyprus but also through the active participation in the work of EURELECTRIC and the European Technology and Innovation Platforms of SNET and PV, he is the writer of many reports and papers of technical content in relevant scientific journals.



Onesmus Mwabonje
Research Fellow,
Centre for Environmental
Policy
Imperial College, London

Dr Onesmus Mwabonje is a Research Fellow at Imperial College London's Centre for Environmental Policy (CEP). He has combined academic and industrial experience in the application of Life Cycle Assessment (LCA) to supply chains for biofuels, bioenergy and biorefineries to both UK and EU policy requirements.

He is currently working as a technical lead on BEIS funded 2050 International Calculator program, as part of the technical delivery team that supports BEIS in the development of five new country calculators, whilst helping improve other ten existing ones.

He previously worked on the EU Calculator project funded by the EU Horizon 2020, with an overall aim of developing pathways towards the decarbonisation and resilience of the European economy in the time-frame 2030-2050 and beyond.

He is also a Co-Investigator of the BESTER project, an ERA CoBioTech initiative funded by BBSRC. He also managed the Bio-SuccInnovate project sponsored by Climate KIC. At Imperial, he leads the Life Cycle Network and the Energy and Climate Research Theme at CEP. He is an experienced LCA practitioner, expert in assessing feedstocks for biomass and biofuels energy technology options.



Mark Hoppe
Head of Public Affairs
& Business Development,
SkySails Group GmbH
Board Member of Airborne
Wind Europe

Deeply passionate about advancing renewable energy, particularly through cutting-edge technologies like airborne wind energy. With background as Head of Public Affairs and Business Development at SkySails Power, a pioneering company in the Airborne Wind Industry, and as Board Member of Airborne Wind Europe,

Mark brings a profound understanding of market dynamics and complex policy challenges within his industry and the renewable energy sector.



Milan Kljajic

Senior Engineering Assistant
United Nations Peacekeeping Force in Cyprus

Milan Kljajic is Senior Engineering Assistant at the United Nations Peacekeeping Force in Cyprus (UNFICYP). In addition, he is UNFICYP's environmental focal point as well as chairman of the Environmental Committee, and guides the greening of UNFICYP, including its transition to Renewable Energy.

Prior to UNFICYP, Mr. Kljajic worked for the United Nations Stabilization Mission in Haiti (MINUSTAH) where he was involved in supervising the construction of MINUSTAH camps. Before his UN career, Mr. Kljajic gained significant experience in the electrical engineering sector in Croatia. Mr. Kljajic holds a bachelor's degree in Engineering Management from the University of "Union-Nikola Tesla", Belgrade, Serbia.



Andrew Hyde

Senior Fellow
Stimson Center on the Transforming Conflict and Governance Program

Andrew Hyde is a Director and Senior Fellow at the Stimson Center on the Transforming Conflict and Governance Program where he leads on projects covering UN Peacekeeping and UN financing.

Prior to Stimson, Andrew served for nearly 30 years as a career U.S. Foreign Service Officer. During his diplomatic tenure, Andrew worked extensively on multilateral diplomacy at the global and regional levels. He also held several positions focused on international economic relations, with a specialty in energy. At the State Department, he led a team that provided a regional focus to U.S. multilateral engagement, especially at the United Nations and also where he developed a comprehensive strategy for meeting U.S. financial commitments to the United Nations.

Andrew has also worked in the U.S. Congress, in both the House and Senate. He has a Master's degree in National Resource Strategy from the Dwight Eisenhower School for National Security and Resource Strategy (National Defense University)

with a specialty in Energy policy, and a BA in International Relations, Economics and Political Science from Dickinson College. He also has done graduate studies at the Hebrew University in Jerusalem and the London School of Economics.



Constantinos Taliotis

Associate Research Scientist
The Cyprus Institute

Constantinos Taliotis is an Associate Research Scientist in the Energy Planning and Analysis group at the Cyprus Institute, which he joined in 2018. Prior to this, he was employed at the Royal Institute of Technology (KTH) in Sweden. He is an energy systems modeller with more than 10 years of experience in the field.

His current work mainly involves close collaboration with national authorities to provide modelling insights that inform long-term energy and climate planning in Cyprus. He has worked on numerous projects with international organizations, such as the World Bank, the United Nations Department of Economic and Social Affairs, and the International Renewable Energy Agency. Constantinos holds a PhD in Energy and Environmental Systems and an MSc in Sustainable Technology from the Royal Institute of Technology (KTH) in Sweden, and a BSc (Hons) in Environmental and Resource Sciences from Trent University in Peterborough, Canada.



Alexandros Yfantis

Founder and CEO
SYCHEM group of companies

Dr. Alexandros Yfantis is the founder and CEO of SYCHEM group of companies. He is a PhD Chemical Engineer graduated from the National Technical University of Athens (Greece) in 1996 and the Brandenburger Technical University of Cottbus (Germany) in 2000. He has significant experience in the design and operation of water & wastewater treatment systems, cathodic protection and energy saving, with more than 60 publications in scientific journals and conferences. His scientific work as well as the engineering achievements of his group have been recognized with several national and international awards. In 2016, he has been selected as an Endeavor Entrepreneur for his high impact on the growth and employment in Greece. In 2017 he designed & supervised the construction of 1MW Biogas Power Plant (Bioenergy Crete – SYCHEM group subsidiary), a Biogas Power Plant with unique features & innovations. Since 2020, Dr. Yfantis is the President of the "Hellenic Association of Biogas Producers" (HABIO).



George Martides

Partner | Financial Advisory Services Leader
Deloitte Limited

George is a Partner and the Financial Advisory Services Leader of Deloitte Cyprus. He has over 25 years of extensive experience in Financial Advisory serving clients in various industries, both locally and abroad.

George was the Partner in charge of a large number of projects, including Mergers and Acquisitions, Buy and Sell side due diligence reviews, Asset & Business valuations, Intangible Asset valuations, Fairness Opinion reports, Stock Exchange listings in Cyprus and abroad, Reorganization/ Restructuring studies, Business & Financial modelling, and Value Creation services through the use of Data Analytics. Over the years, George has led various studies on the Renewable sector in Cyprus (windfarms, photovoltaics and other projects) and currently serves as the Energy & Resources Industry Leader for Deloitte Cyprus.

George holds a BSc in Accounting, MBA (Finance), CF (ICAEW), CPA exams (AICPA), and is the Chairman of the Research & Statistics Committee of the Cyprus Investment Funds Association (CIFA).



Abdifatah Abshir

Director of Energy
Ministry of Energy and Water Resources, Federal Republic of Somalia

Eng. Abdifatah Abshir received B.Sc Degree in Electrical Engineering from the International University of Africa in 2012, and an M.Tech In Renewable Energy and Technology Management from the Indian Institute of Technology Delhi in 2020. Eng Abdifatah Abshir is currently working with Ministry of Energy and Water Resources, Federal Republic of Somalia as a Director of Energy, previously he was head Section of Renewable Energy.

With more than 10 years of experience in the field. Eng. Abdifatah has led several projects and initiatives in renewable energy, sustainability, and energy efficiency in Somalia. Also, he is a board member of National Electricity Authority and RCREEE, member of National Electro Technical Committee, and Operation Committee of EAPP-East African Power pool and member of African Union –Specialized Technical Committee in Energy Sector- AU-STC TTIIIE.



Stefano Marguccio

**Senior Advisor to the
Director-General**
International Renewable
Energy Agency (IRENA)

Stefano Marguccio is the Senior Advisor to the Director-General of the International Renewable Energy Agency (IRENA). Prior to his tenure at IRENA, Stefano held the post of Deputy Head of the Policy Planning Unit in the Italian Ministry of Foreign Affairs. His work involved drafting policies, strategies, and analysis, whilst managing a large group and liaising with corporations and various academia. He has been posted abroad in Venezuela and Albania, and he has acted as Alternate Permanent Representative of Italy to the United Nations in Rome and to the Council of Europe in Strasbourg.

Between 2014 and 2018, he worked as Diplomatic Advisor to the Minister of Environment, following closely sustainable development and climate diplomacy during the Italian Presidency of the European Council, the approval of the Agenda 2030, COP21 in Paris, the Italian Presidency of the G7, and the outreach whilst Italy was holding a seat in the Security Council of the United Nations.

These experiences earned him invaluable knowledge and insight into international trends and decision-making, honing both his diplomatic and political skills.

Heralding from the beautiful Lombardy region of Italy, Stefano has traveled extensively both for work and pleasure. On top of holding a Master degree in Public Administration from Bocconi University, a Masters in Diplomacy from the Institute for International Political Studies and a Degree in Law, he is a published Fantasy fiction author and a keen horseback rider.



Fanos Karantonis

Chairman
Association of Renewable
Enterprises Cyprus

Mr Fanos Karantonis currently holds the position of Chairman at the Association of Renewable Enterprises Cyprus (SEAPEK). In addition to this role, he serves as the Chief Operating Officer at Evergy, an Electricity Supply Company.

Mr Fanos is also the Founder and Director of Prosume, an Interactive Learning Center for Renewable Energy and Energy Efficiency, as well as the Founder and Director of Santiam Investment, an Independent Power Producer. Alongside these ventures, he is a Co-Founder and Director of M.G.F.K. ENERGY LTD, specializing in PV EPC and ESCO services. Mr Fanos Karantonis earned his MEng (Hons) in Electrical and Electronic Engineering from the University of Nottingham.



Juan José García Méndez

**Program Officer for Clean
Energy Transition
Scenarios**
International Renewable
Energy Agency (IRENA)

Juan José García Méndez is a Mechanical Engineer with additional Master's degrees in Business Management, Renewable Energy, and Finance. He also holds postgraduate qualifications in Statistical Research and Project Management and has received specific trainings in Energy Policy and Electricity Sector Regulation.

With over 15 years of energy sector experience, Juan has worked in hydrocarbons energy policy, biofuels, geothermal regional capacity building, renewable energy regulation, and long-term energy planning.

Currently, Juan is serving as a Program Officer for Clean Energy Transition Scenarios at the International Renewable Energy Agency (IRENA) where he leads the coordination of the Long-Term Energy Scenarios Network.



Stefan Rajaonarivo

Principal
International Finance
Corporation (IFC)

Stefan Rajaonarivo is a Principal with the Transaction Advisory department of the International Finance Corporation (IFC).

As Global Sector Lead for the Energy sector, he is responsible for industry strategy development on top of providing senior management and execution teams with advice on portfolio projects informed by market trends, policy, standards as well as regulations.

IFC Transaction Advisory supports sovereign clients in attracting private sector money and expertise to further sustainable public service projects with the objective of making a positive impact on people's everyday life.



Kleanthis (Akis) Ellinas

President
Cyprus Wind Energy
Association (CWEA)

Mr. Kleanthis Ellinas holds a university degree in Business Administration from the University of Richmond and a Master's degree in Accounting and Finance from the London School of Economics.

He is the President of the Cyprus Wind Energy Association since 2007 and an active member of the European Wind Energy Association (EWEA), the Cyprus Chamber of Commerce and other Industrial bodies. The affiliated companies of K. Ellinas Energy Ltd group are engaged in the development, construction, and operation of energy projects, including photovoltaic parks with a total capacity of 100MW as well as a conventional power plant with the use of natural gas, located in the Vassilikos Energy Center, of a total capacity of 105MW. He has been honoured by various organizations in Cyprus and abroad for his contribution to the field of Renewable Energy Sources, following the construction of the first and to date largest wind farm in Cyprus by D.K Windsupply Ltd in the Orites area

of Paphos district, of an installed capacity of 82MW. He participates as a guest and/or speaker in seminars, conferences, and other events on energy issues in Cyprus and abroad, transferring his experiences in the field of renewable energy sources.

One of these conferences was the Green Development Investors Forum in Athens in 2010, where he was honoured by the then Prime Minister of Greece, Mr. Andreas Papandreou.



Ing. Abigail Cutajar

**Advisor - Energy and
Climate Change**
Ministry Secretariat – Ministry
for the Environment, Energy
and Enterprise, Malta

A Warranted and Chartered Engineer by profession. Mainly focuses on policy development of new emerging technologies within Energy and Climate sectors as well as development of green construction. Obtained both Bachelor and Master degrees in Engineering from the University of Malta. Furthered, studies in the areas of Energy and Sustainability in buildings which led to the acquisition of professional accreditation in Leadership in Energy and Environmental Design (LEED). Appointed as an Advisor to the Maltese Government for the execution of policy development within the areas of Energy, Electrification and Climate Action. Her involvement in the building sector includes providing technical expertise to achieve high-performance green building design and construction projects through the adoption of LEED practices.

Her work experience varies widely across different industries. This involves the implementation of high-value investment projects, in efforts to acquire and certify state-of-the-art developments, which are highly efficient and sustainable along the whole lifecycle of the project.

THURSDAY

12 OCTOBER 2023

08:30 - 09:00 REGISTRATION AND NETWORKING

09:00 - 09:40 OPENING CEREMONY

Location:

LEDRA
BALLROOM

Chair: Marios Tsiakkis, Secretary-General Cyprus Chamber of Commerce and Industry

Welcome by: Prof. Ioannis Michaelides, Conference Chair

Opening by: George Papanastasiou, Minister of Energy, Commerce and Industry, Cyprus

Address by: Francesco La Camera, Director-General International Renewable Energy Agency

Address by: Othonas Theodoulou, Vice-President Cyprus Chamber of Commerce and Industry

09:45 - 11:15 PLENARY SESSION 1: Energy Transision Challenges - The way forward

Location:

LEDRA
BALLROOM

Chair: Prof. Agis Papadopoulos

Francesco La Camera, Director-General International Renewable Energy Agency

George Papanastasiou, Minister of Energy, Commerce and Industry, Cyprus

Dr Miriam Dalli, Minister for the Environment, Energy and Enterprise, Malta

Dr Andreas Poullikkas, Chairman, Cyprus Energy Regulatory Authority

11:15 - 11:45 COFFEE BREAK

11:45 - 13:15 PARALLEL SESSIONS: A1, A2, A3

Location:

TAMASOS

PAPER SESSION A1: Photovoltaics - Grid Integration

Chair: Panayiotis Keliris, Dr Chryso Sotiriou

RESEE_P2303: A combination of weather clustering and data-driven methods for intraday PV power production forecasting

RESEE_P2318: Towards novel modelling tools for building energy performance and optimal integration of multi-energy vector technologies

RESEE_P2302: Evaluation of the performance of hybrid AC-DC electrical distribution system in buildings. A case study of a historical building

RESEE_P2325: Fault detection and prediction in grid-connected photovoltaic (PV) systems

Location:

DIONYSOS

PAPER SESSION A2: Energy storage and management technologies

Chair: Dr. Alexandros Nikas, Christos Maxoulis

RESEE_P2304: Cyprus Power System Under High Share of Renewables: Optimal Capacity and Operation of Storage Units in Absence of an Electricity Market

RESEE_P2312: ANN-supported control strategy for a solid oxide fuel cell working on demand for a public utility building

RESEE_P2308: Integration of Green Hydrogen and Heating/Cooling Subsystems to a 40 kWp Photovoltaic-60 kWh Battery Energy Storage System Living Lab Nanogrid

RESEE_P2305: Feasibility study of mandatory Minimum Energy Performance Standards (MEPS) for existing buildings in Greece existing buildings in Greece

RESEE_P2311: Enhancing Decarbonization of Power Generation Through Electricity Trade: Eastern Mediterranean and the Middle East Region

Location:

LEDRA
BALLROOM

SESSION A3: Renewable Energy Development and Energy Efficiency Interventions to Strengthen Islands Energy Security and Climate Resilience

Chair: IRENA

Details will be provided in the Concept Note for this event.

13:15 - 14:15 LUNCH

14:15 - 16:00 PLENARY SESSION 2: MED9 - Mediterranean region's ambition to become a Green Hub

Location:

LEDRA
BALLROOM

Chair: Stefano Marguccio, George Partasides

George Papanastasiou, Minister of Energy, Commerce and Industry, Cyprus: Main Priorities for Cyprus Presidency for the MED9. The new updates of Interconnections and geopolitics

Dr Miriam Dalli, Minister for the Environment, Energy and Enterprise, Malta: Overview of Joint Declaration, expectations and the role of MED9 in COP28. Potential of Green

Intervention of Member States (Hybrid participation)

Panel Discussion and Q&A

Panelists: George Papanastasiou, Minister of Energy, Commerce and Industry, Cyprus

Myriam Dalli, Minister for the Environment, Energy and Enterprise, Malta

Francesco La Camera, Director-General International Renewable Energy Agency

Mohamed Al Shehhi, Ambassador of UAE in Cyprus (TBC)

16:00 - 16:20 COFFEE BREAK

THURSDAY

12 OCTOBER 2023

16:20 - 18:00 PARALLEL SESSIONS: B1, B2, B3

Location:
Corridor
outside
LEDRA
BALLROOM

PAPER SESSION B1: Students' Poster Session
Chair: Prof. Paris Fokaides

Presentation of 20 accepted posters to be exhibited until the end of the conference.

A detailed list of titles and authors is provided in Appendix 1.

Location:
DIONYSOS

PAPER SESSION B2: The future of Renewable Technology - Security of Energy Supply
Chair: Prof. Giorgos Panaras, Dr Chris Christodoulou
RESEE_P2306: Equipment- and time-constrained data acquisition protocol for load forecasting through energy disaggregation

RESEE_P2310: Assessing ex-post the effectiveness of national renewable energy support schemes

RESEE_P2322: How do scenario developers and scenario end-users perceive the impact of crises on sustainability from an energy modelling perspective?

RESEE_P2328: Decarbonization strategies for commercial buildings in Mediterranean and subtropical climates

RESEE_P2301: Exploratory analysis of electricity Day-Ahead market data using graph theory

RESEE_P2339: Evaluating and Defining Repositories for Calculating CO2 Absorption by Urban Plantations

Location:
LEDRA
BALLROOM

SESSION B3: Long-Term Energy Scenarios (LTES) Network "Effective stakeholder engagement for energy scenario communication"
Chair: IRENA

Details will be provided in the Concept Note for this event.

19:30 - 22:30 DINNER (TBC)

FRIDAY

13 OCTOBER 2023

09:00 - 11:00 PLENARY SESSION 3 (Deloitte)

Chair: George Martides, Deloitte

Location:
LEDRA
BALLROOM

Round Table Discussion: Pathways towards 2030 and 2050 - How today's energy mix evolves into the energy mix of tomorrow
Marios Panayides: Cyprus Energy Planning in the framework of National Energy and Climate Plan 2030 and beyond.

Dr Venizelos Efthymiou: Advancements in Energy Storage Technologies for Grid Integration of Renewables

Dr Charles Ellinas: Grid & Interconnectors - the essential next step to unlock renewables

A panel discussion to be moderated by **George Martides** will follow with the participation of the above presenters and:

George Partasides, Ministry of Energy, Commerce and Industry, Commercial Counselor in Cyprus Trade Center - Dubai

Dr Constantinos Rouvas, Electricity Authority of Cyprus

Akis Ellinas, Cyprus Association of Wind Energy

11:00 - 11:30 COFFEE BREAK

11:30 - 13:00 PARALLEL SESSIONS: C1, C2, C3

Location:
DIONYSOS

SESSION C1: Geothermal Technologies for heating and cooling
Chair: Dr Gurbuz Gonul, Dr Nestor Fylaktos
Keynote: Gurbuz Gonul: Geothermal Technologies for heating and cooling

RESEE_P2326: Monitoring the performance of a GSHP system in the Mediterranean climate of Cyprus

RESEE_P2327: Dwellings' foundation as Ground Heat Exchangers in Eastern Mediterranean conditions

Case Study 1 (IRENA)
Case Study 2 (Cyprus) by Dr.-Ing A. Yfantis, Sychem Group

DISCUSSION

FRIDAY

13 OCTOBER 2023

Location:
TAMASOS

PAPER SESSION C2: Research activities of Institutions

Chair: Prof. George Georghiou

1. **KIOS Research and Innovation Center of Excellence**, University of Cyprus.
Dr Lenos Hadjidemetriou, Research Lecturer.
2. **ERATOSTHENES Centre of Excellence**, Cyprus University of Technology.
Prof. Diofantos Hadjimitsis.
3. **PHAETHON Research and Innovation Centre of Excellence for Intelligent, Efficient and Sustainable Energy Solutions**, University of Cyprus.
Prof. George Georghiou.
4. **Energy Department of the Energy Environment Water Research Center** of the Cyprus Institute.
Dr Marios C. Georgiou, Manager of the PROTEAS Facility.
5. **Renewable & Sustainable Energy Lab**, Technical University of Crete.
Prof. Theocharis Tsoutsos, Director.

Location:
LEDRA
BALLROOM

SESSION C3: Energy Compact on Renewable Energy for United Nations Peacekeeping.
Innovative Approaches to Advancing Deployment of Renewable Energy and Improving Energy Efficiency in Peacekeeping
Chair: IRENA

Details will be provided in the Concept Note for this event.

13:00 - 14:00 LUNCH

14:00 - 15:30 PARALLEL SESSIONS: D1, D2, D3

Location:
TAMASOS

PAPER SESSION D1: Meet the Editor

Chair: Prof. Paris Fokaides

Prof. Sandro Nizetic
Prof. Agis Papadopoulos
Prof. Paris Fokaides

Location:
DIONYSOS

PAPER SESSION D2: Energy Efficiency in buildings

Chair: Prof. Ghalib Kahwaji, Dr. Effrosyni Giama

- RESEE_P2315:** Evolution of legislation framework on occupants' comfort in the context of Zero Energy Buildings
- RESEE_P2317:** The Role of Green Building Codes and Renewable Energy in achieving the nZEB Targets for Residential Dwellings in Dubai
- RESEE_P2316:** Energy Consumption and HVAC load Analysis for Residential Dwellings, in Dubai
- RESEE_P2319:** Towards a multi-energy multi-user monitoring and decision-making tool for district heating networks
- RESEE_PE2323:** Evaluation of thermophysical properties of conventional and ventilated facades
- RESEE_P2336:** Operational Rating in Buildings - Current Trends and Future Prospects

Location:
LEDRA
BALLROOM

PAPER SESSION D3: Energy Efficiency and Policy

Chair: Prof. Antonis Zorpas, Prof. Despina Serghides

- RESEE_P2309:** Bridging climate and circular economy related policy targets: Insights from material requirements in the renewable electricity system
- RESEE_P2313:** Outline of the Impact Assessment of the Draft Revised National Energy and Climate Plan of Cyprus National Energy and Climate Plan of Cyprus
- RESEE_P2314:** Triggering Behavioral Change via Gamification for Promoting Energy Efficiency
- RESEE_P2320:** Sustainable siting of offshore wind farms. The project Step – Ap
- RESEE_P2329:** Auditing of indoor environmental quality in museums: The Tellogleion Foundation case study
- RESEE_P2333:** An outline of a Business Plan for the development of a small vertical takeoff and landing UAV with dedicated Hydrogen fuel cell (HyFly-VTOL)

15:30 - 16:00 COFFEE BREAK

FRIDAY

13 OCTOBER 2023

16:00 - 17:30

PLENARY SESSION 4

Location:

LEDRA BALLROOM

Chair: Prof. Sandro Nizetic, Prof. Alexandros Charalambides

Prof. Agis Papadopoulos, Aristotle University of Thessaloniki:

The Water-Energy Nexus

Dr Onesmus Mwabonje, Imperial College, UK:

Importance of utilising LCA for Renewable Energy Projects

Prof. Theodoros Zachariadis, The Cyprus Institute:

Connecting Science with Policy in the Age of Deep Decarbonisation - Some Reflections

17:45 - 18:15

CLOSING SESSION

Location:

LEDRA BALLROOM

Chair: Marios Tsiakkis, Secretary-General Cyprus Chamber of Commerce and Industry

Address by H.E. the President of the Republic of Cyprus Mr Nikos Christodoulides

Concluding remarks by: Prof. Ioannis Michaelides, Conference Chair

SATURDAY

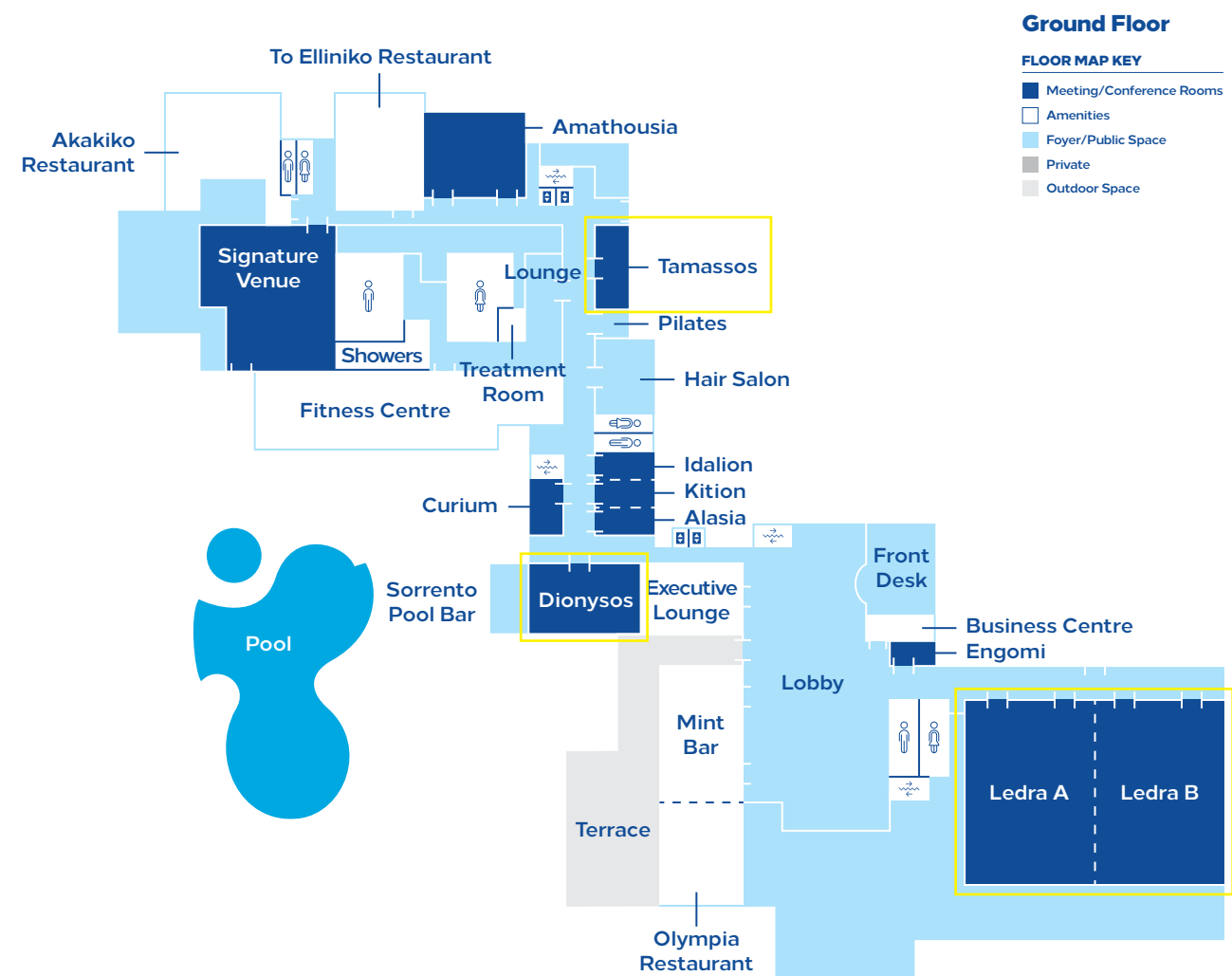
14 OCTOBER 2023

09:00 - 13:00

Visit to the PROTEAS Renewable Energy Poly-generation Research Facility.

Guided tour by Dr Marios C. Georgiou, Manager of the PROTEAS Facility.

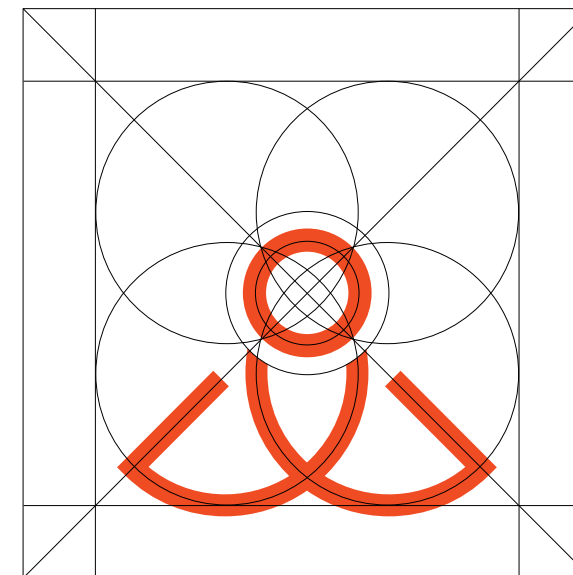
ROOM	EVENT
LEDRA BALLROOM	<ul style="list-style-type: none"> Opening Ceremony All Plenary Sessions (1, 2, 3 & 4) Closing SESSION Sessions A3, B3, C3, D3
DIONYSOS	<ul style="list-style-type: none"> Sessions A2, B2, C1, D2
TAMASOS	<ul style="list-style-type: none"> Sessions A1, C2, D1
<ul style="list-style-type: none"> Paper Session B1: Students' Poster Session will be held in the corridor outside the LEDRA BALLROOM 	



No.	Title	Authors
SP41	Using Living Labs and System Innovation Approach for enabling Mediterranean seaports and adjacent communities to adapt to a changing climate by improving their resilience	Olympia Nisiforou, Alexandros Charalambides
SP42	Towards Innovative Methods for Energy Performance Assessment and Certification	Sara Mariza Vryonidi, Alexandros Charalambides
SP43	Mediterranean Island Cleantech Innovation Ecosystem	Eliza Nikolaou, Alexandros Charalambides
SP44	INDUSAC: An Industry-Academia Collaboration mechanism	Eliza Nikolaou, Alexandros Charalambides
SP45	Enhancing Accessibility: A Comprehensive Study of Current Apps for Enabling Accessibility of Disabled Individuals in Buildings	Eleni Apostolidou, Paris Fokaides
SP46	Frederick University's Digital Twin web application (D2EPC)	Nicholas Afxentiou, Paris Fokaides
SP47	Thermochemical Properties and Life Cycle Assessment of Waste Spent Coffee Grounds	Theoklitos Klitou, Paris Fokaides
SP48	First Outcomes of Comparative Whole Building Life Cycle Assessment for typical European Buildings	Paulius Spudys, Andrius Jurelionis
SP49	Integrating BIM and Parametric Design with AR for Sustainable Built Environments	Magdalena Okrzesik, Paris Fokaides
SP50	Documentation of the Status of Smart Readiness Indicator (SRI) at the level of the European Commission	Afroditi Zamanidou, Paris Fokaides, Dimosthenis Ioannidis
SP51	Fuel Savings and Reduction of Exhaust gas Emissions by Application of Hydrogen Technologies on Existing Internal Combustion Engine (ICE) Vehicles	Christina Christodoulou, Christodoulos Christodoulou
SP52	Hydrogen Production by Catalytic Decomposition of Recycle Aluminium	Demetris Hadjipetrou, Christodoulos, Christodoulou
SP53	Utilizing Smart Technologies for Personal Thermal Comfort Approach	Ana Čulić, Petar Šolić, Toni Perković, Fabrizio Ascione, Sandro Nizetic
SP54	PVT system with ice bank: Experimental investigation	Mišo Jurčević, Ivan Čorić, Duje Čoko, Müslüm Arıcı, Effrosyni Giama, Agis Papadopoulos, Sandro Nizetic
SP55	Energy, water and waste management during crises	Constantinos Hadjiconstantinides, Agis Papadopoulos
SP56	Sustainable Energy Neighbourhood Planning	Stelios Papastylianou, Byron Ioannou
SP57	Hydrogen Production in a System with Zero Valent Iron (Fe0) or Scrap Iron, and In Situ Bioconversion Using Homoacetogens for Sustainable Chemicals, Bioethanol Synthesis, and CO2 Utilization	Charis Samanides, Yiannis Vyrides
SP58	Transcriptional responses of <i>Saccharomyces cerevisiae</i> to environmental stresses during bioethanol production using biochar-based biocatalysts	Maria Kyriakou, M. Christodoulou, A. Ioannou, V. Fotopoulos, Michael Koutinas
SP59	Mitigating Extreme Heat in Limassol's Old Town: A Case Study	Chernaya Anfisa, Martha Katafygiotou
SP60	Concepts of Creating Bioenergy Short Logistic Chains as Driving Elements the Use of Local Renewable Energy Sources by Energy Cooperatives: Case Study of the Oborniki Śląskie Commune in Poland	Łukasz Sobol, Arkadiusz Dyjakon, Bernard Knutel, Szymon Szufa, Magdalena Zatonska

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7th International Conference on Renewable Energy Sources & Energy Efficiency

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