

# GSESRE2022

Global Summit and Expo on Sustainable and Renewable Energy

**June 16-18, 2022**

**Copenhagen, Denmark**

**FINAL PROGRAM**



**The Scientistt**

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## Thursday June 16, 2022 | Day-1

09:00-09:15 On-Spot Registrations

09:15-09:30 Opening Ceremony

Conference Chair: **Andrew R Barron, Energy Safety Research Institute, UK**

09:30-10:15 Title: Reducing Industrial Carbon Emissions - A Case Study in Making Real Impact Towards Net Zero  
**Andrew R Barron, Energy Safety Research Institute, UK** P

10:15-11:00 Title: Sustainable Process Synthesis, Design, and Analysis: Challenges and Opportunities  
**Rafiqul Gani, PSE for SPEED Company Limited, Denmark** P

11:00-11:15 **Coffee Break**

11:15-12:00 Title: Artificial Intelligence, Quantum Computing and Beyond for Sustainable Process Development  
**Sayed Soheil Mansouri, Technical University of Denmark, Denmark** P

12:00-12:35 Title: Integrated Energy Systems in Local Communities  
**Birgitte Bak-Jensen, Aalborg University, Denmark** K

**Session: 1 Hydroelectric Power  
Renewable Power**

12:35-13:05 Title: Geopolitical and Social Dimensions of Green Deal in East Mediterranean  
**Yannis Maniatis, University of Piraeus, Greece** I

13:05-13:10 **Group Photo**

13:10-14:00 **Lunch Break**

14:00-14:30 Title: Can Natural Gas Support the Sustainable Energy Transition  
**Volkan S Ediger, Kadir Has University, Turkey** I

14:30-15:00 Title: On Site Application of a Digital Twin - Using a Calibrated Building Energy Model for Fault Detection Diagnosis  
**Jose Eduardo Pachano, University of Navarra, Spain** I

15:00-15:30 Title: Something is Sustainable in the State of Denmark: A Review of the Danish District Heating Sector  
**Katinka Johansen, Lund University, Denmark** I

15:30-16:00 Title: Under the Sun: Aspects Beyond Solar Energy  
**Marceliano Eduardo de Oliveira, UEA Amazon State University, Brazil** I

16:00-16:15 **Coffee Break**

16:15-16:45 Title: Electrodeposited Perovskite Layers Developed for Photovoltaic Application  
**Lara Perrin, University Savoie Mont Blanc, France** I

16:45-17:15 Title: Green Hydrogen in Saudi Arabia  
**Gento Mogi, The University of Tokyo, Japan** I

**End of Day 1**

## Friday June 17, 2022 | Day-2

**Invited Session**

**Session: 2 Solar Energy  
Power Quality**

10:00-10:30 Title: Power Quality Issues on Integrating Renewable Energy to the Grid  
**Jeyraj Selvaraj, Universiti Malaya, Malaysia** I

<b>10:30-11:00</b>	Title: Solving the Problem of Sustainability of Cities Worldwide with Integrated Seawater Steam Engine System <b>Karmen Margeta</b> , Institute for Development and International Relations (IRMO), Croatia <b>Zvonimir Glasnovic</b> , University of Zagreb, Croatia	I
<b>11:00-11:15</b>	<b>Coffee Break</b>	
<b>11:15-11:45</b>	Title: Challenges in Assessing the Competencies of Specialists in the Field of Innovative Technologies according an Obvious Increase in the Share of Renewable Energy Resources <b>Kristina Berzina</b> , Riga Technical University, Latvia	I
<b>11:45-12:15</b>	Title: Data-Driven Strategies for Smart Grid Optimization Towards Cognitive Buildings <b>Sofia Agostinelli</b> , Sapienza University of Rome, Italy	I
<b>12:15-12:45</b>	Title: Leveraging Technology Towards Affordability in Construction <b>Andrew P McCoy</b> , Virginia Polytechnic Institute and State University, USA	I
<b>12:45-13:15</b>	Title: New Chalcogenide Photovoltaic Devices for Architectural Integration <b>Juan Bautista Carda Castello</b> , Universitat Jaume I of Castellon, Spain	I
<b>13:15-14:00</b>	<b>Lunch Break</b>	
<b>14:00-14:35</b>	Title: Resilient Electric Powertrain for Evs <b>Yihua Hu</b> , University of York, UK	K
<b>14:35-15:05</b>	Title: Efficient Energy Solutions for a Sustainable Future <b>Yanping Du</b> , Shanghai Jiao Tong University, China	I
<b>15:05-15:50</b>	<b>Sarah Thomas, Floating Power Plant, Denmark</b>	
<b>15:50-16:20</b>	Title: Transparent ZnO Based Photovoltaic Devices for Architectural Integration <b>Samuel Porcar Garcia</b> , Universitat Jaume I of Castellon, Spain	I
<b>16:20-16:35</b>	<b>Coffee Break</b>	
<b>End of Day 2</b>		

## Saturday June 18, 2022 | Day-3

### Virtual Presentations

#### Time zone: London, (GMT+1)

<b>09:30-10:10</b>	Title: Integrating Innovative Thermal Technologies for Energy Sustainability <b>Chua Kian Jon</b> , National University of Singapore, Singapore	P
<b>10:10-10:50</b>	Title: Materials Space-Tectonics: A Conceptual Paradigm for Creating Second-Generation Porous Materials <b>Yusuke Yamauchi</b> , The University of Queensland, Australia	P
<b>10:50-11:20</b>	Title: Environmental Investment, the Allocation of Portfolio Assets and GHG Tax <b>Naoyuki Yoshino</b> , Keio University, Japan	K
<b>11:20-11:45</b>	Title: Recent Development of Pressure Retarded Osmosis between Seawater and Fresh Water <b>Akihiko Tanioka</b> , Tokyo Institute of Technology, Japan	I
<b>11:45-12:10</b>	Title: Investigation on Operation Condition of Membrane Reactor for Biogas Dry Reforming to Produce H <sub>2</sub> <b>Akira Nishimura</b> , Mie University, Japan	I

<b>12:10-12:35</b>	Title: An Assessment of Solar Energy Potential and Policy Implication as a Sustainable Solution to Nigeriaâ’s Energy Deficit <b>Toochukwu Ogbonna</b> , University of Tsukuba, Japan	
<b>12:35-13:00</b>	Title: Nanofluidic Osmotic Energy Conversion with Thermal Modulation for Salinity-Gradient Power Utilization <b>Qinlong Ren</b> , Xi’an Jiaotong University, China	
<b>13:00-13:25</b>	Title: Transitions of Biogas Policies in China (2001–2019): A Policy-Instrument-Based Analysis <b>Chao-chen Chung</b> , Wuhan University, China	
<b>13:25-13:50</b>	Title: Control System Fault Diagnosis of Small Pressurized Water Reactors Based on Deep Learning <b>Pengfei wang</b> , Xi’an Jiaotong University, China	
<b>13:50-14:15</b>	Title: High Spatial-Temporal Imaging of Carrier Transport and Energy Flow Dynamics <b>Tong Zhu</b> , Beijing Institute of Technology, China	
<b>14:15-14:40</b>	Title: Sustainable Development of Green Small Hydropower (GSHP) Under the Carbon Neutrality Goals: a Perspective from China <b>Meili Feng</b> , The University of Nottingham Ningbo, China	
<b>14:40-15:05</b>	Title: Novel Electrode Design and Diagnostic in Water Electrolysis for Hydrogen Production <b>Zhenye Kang</b> , Hainan University, China	
<b>15:05-15:30</b>	Title: Architectural Integration of Ceramic Thermal Solar Collectors <b>Jordi Roviras Minana</b> , School of Architecture of UIC Barcelona, Spain	
<b>15:30-15:55</b>	Title: The water-Energy Nexus in Public water Transport and Distribution Networks <b>Tullio Tucciarelli</b> , University of Palermo, Italy	
<b>15:55-16:20</b>	Title: Novel Engineered Ceramics for High Temperature Receivers of Concentrated Solar Radiation <b>Elisa Sani</b> , National Research Council, Italy	
<b>16:20-16:45</b>	Title: Direct Steam Generation Solar Plants <b>Giuseppe Langella</b> , University of Naples Federico, Italy	
<b>16:45-17:10</b>	Title: Sustainable Geothermal Energy, the power of the 3-E Approach - Exergy, Exergo-economic, and Exergo-environmental <b>Lorenzo Talluri</b> , University of Florence, Italy	
<b>17:10-17:35</b>	Title: Wall Impact on Efficiency of Packed-bed Thermocline Thermal Energy Storage System <b>Baoshan XIE</b> , Nantes Université, France	
<b>17:35-18:00</b>	Title: Adverse Power Quality Effects in Renewable Energy Systems <b>Aurelio Medina-Rios</b> , Universidad Michoacana de San Nicolás de Hidalgo, Mexico	
<b>End of Conference</b>		