




GLOBAL RESEARCH CONFERENCE ON

# RENEWABLE ENERGY & SUSTAINABLE DEVELOPMENT

 September 23-25, 2024

 Munich, Germany

Theme: "Explore Research Advances in Renewable Energy and Sustainable Development"


**TENTATIVE PROGRAM**



**FOSTER RESEARCH**  
Innovate. Explore. Collaborate

 <https://renewableresearch2024.com/>

 [secretary@renewableresearch2024.com](mailto:secretary@renewableresearch2024.com)

 +91-9100067998

## Day 1: September 23, 2024

9:00–09:15	Registrations
09:15–09:45	Opening Lecture: Conference Chair: Ralph Kennel, Technical University of Munich, Germany Conference Co-Chair: Friedrich Grimm, RES-Institute, Germany
<b>PLENARY TALKS</b>	
09:45–10:25	Title: “How Can Predictive Control Support the Use of Renewable Energy Sources” Ralph Kennel, Technical University of Munich, Germany
10:25–11:05	Title: “Quantum Mechanically Effective Device for Permanent Magnetic Plasma Confinement in a Fusion Reactor” Friedrich Grimm, RES-Institute, Germany
11:05–11:20	Coffee Break
11:20–12:00	Title: “Bicarbonate-Based Microalgal Cultivation for Efficient Carbon Fixation and Biorefineries” Lee Duu-Jong, City University of Hong Kong, Hong Kong
12:00–12:40	Title: “Greenhouse Gases as Sustainable Feedstocks” Chao-Jun Li, McGill University, Canada
12:40–13:20	Title: “Reversed Fractionation of Carbonate and Bicarbonate at the Air-Water Interface” Rich Saykally, University of California–Berkeley, USA
<b>GROUP PHOTO</b>	
13:20–14:00	Lunch Break
14:00–14:40	Title: “Key Technologies for the Innovative Solar Driven Heating and Cooling Systems” Xudong Zhao, University of Hull, UK
14:40–15:20	Title: TBU Luo Lingai, National Centre for Scientific Research, France
<b>SLOTS ARE AVAILABLE</b>	
<b>END OF DAY 1</b>	

## Day 2: September 24, 2024

KEYNOTE TALKS	
09:00–09:30	Title: “Renewable Energy Park for District Heating”
	Jes Donneborg, Aalborg CSP, Denmark
09:30–10:00	Title: “Multiple Layer Modeling for High-Precision Safety State Estimation of Energy Storage Systems”
	Shunli Wang, Smart Energy Storage Institute, China
10:00–10:30	Title: “Affordability is the Focus of the Near Zero Energy Houses”
	Mark Bomberg, Clarkson University, USA
10:30–11:00	<b>KEYNOTE SLOTS ARE AVAILABLE</b>
11:00–11:15	Coffee Break
INVITED TALKS	
Session 01	<ul style="list-style-type: none"><li>• <b>Renewable and Recyclable Energy</b></li><li>• <b>Energy Conversion and Storage</b></li></ul>
11:15–11:40	Title: “Proton Fast Ignition as a Path to Commercial Fusion Energy”
	Markus Roth, Darmstadt University of Technology, Germany
11:40–12:05	Title: “Triboelectric Nanogenerator for Sustainable and Renewable Energy: Tribo-Material, Surface Structure and Applications”
	Chung Chen Kuei, National Cheng Kung University, Taiwan
12:05–12:30	Title: TBU
	Shuiting Ding, Beihang University, China
12:30–13:15	Lunch Break
13:15–13:40	<b>SLOTS ARE AVAILABLE</b>
13:40–14:05	
Session 02	<ul style="list-style-type: none"><li>• <b>Biofuels &amp; Bioenergy</b></li><li>• <b>Clean Energy</b></li></ul>
14:05–14:30	Title: “Life Cycle Environmental and Economic Benefit Analysis of Sustainable Aviation Fuel Based on Cellulosic Biomass”
	XiaoJun Yang, Civil Aviation University of China, China
14:30–14:55	Title: “Prediction Model of Photocatalytic Hydrogen Production Based on Machine Learning and the Interactive Interface Design”
	Yan Yang, University of Shanghai for Science and Technology, China

14:55–15:20	Title: TBU Shi Donghui, Chinese Academy of Sciences, China
15:20–15:45	<b>SLOTS ARE AVAILABLE</b>
15:45–16:10	
16:10–16:25	Coffee Break
Session 03	<b>Sustainable Finance</b>
16:25–16:50	Title: “Can Chinese Investors Benefit from the Early Retirement of their Overseas Coal Plants: Plant-Level Analysis in Vietnam and Pakistan” Christoph Nedopil Wang, Griffith Asia Institute, Australia
16:50–17:15	<b>SLOTS ARE AVAILABLE</b>
17:15–17:40	
17:40–18:05	
<b>END OF DAY 2</b>	

## Day 3: September 25, 2024

<b>KEYNOTE TALKS</b>	
09:00–09:30	<b>KEYNOTE SLOTS ARE AVAILABLE</b>
09:30–10:00	
10:00–10:30	
10:30–11:00	
11:00–11:15	Coffee Break
<b>INVITED TALKS</b>	
Session 04	<ul style="list-style-type: none"> <li>• Hydro Energy</li> <li>• Wind Energy</li> <li>• Solar Energy</li> </ul>
11:15–11:40	Title: “Hydrogen Production Characteristic and Heavy Metal Migration Mechanism of Super-Accumulated Plants Gasification in Supercritical Water” Liu Shanke, Shanghai Jiao Tong University, China
11:40–12:05	Title: “Advances in Control of Wind Turbines: Wind Speed Estimation, Setpoint Generation and Robust Control” Jeff Pieper, University of Calgary, Canada

12:05–12:30	Title: “A Solar to Chemical Strategy Roadmap: Green Hydrogen as a Means” Pablo Jimenez Calvo, University of Erlangen–Nuremberg, Germany
12:30–13:15	Lunch Break
13:15–13:40	<b>SLOTS ARE AVAILABLE</b>
13:40–14:05	
Session 05	<b>Environmental Impact and Sustainability</b>
14:05–14:30	Title: “From Waste to Wonder: How Biochar can Change our Environment, Human Health, and Animal Welfare” Juliana Schultz, Federal University of Parana, Brazil
14:30–14:55	Title: TBU So Stuart, University of Exeter, UK
14:55–15:20	Title: TBU Zhang Bo, Dalian University of Technology, China
15:20–15:45	Title: TBU Sara Taherinezhadtayebi, University of Rome, Italy
15:45–16:10	<b>SLOTS ARE AVAILABLE</b>
16:10–16:25	Coffee Break
16:25–16:50	<b>SLOTS ARE AVAILABLE</b>
16:50–17:15	
17:15–17:40	
17:40–18:05	
<b>END OF CONFERENCE</b>	

**\*Note: This is a Tentative Program and is subject to change until the final version.**