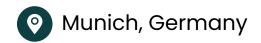


**GLOBAL RESEARCH CONFERENCE ON** 

## RENEWABLE ENERGY & SUSTAINABLE DEVELOPMENT

September 23-25, 2024

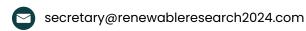


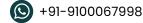
Theme: "Explore Research Advances in Renewable Energy and Sustainable Development"

## **TENTATIVE PROGRAM**



ttps://renewableresearch2024.com/





## 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	
PLENARY TALKS		
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	
	Title: "Greenhouse Gases as Sustainable Feedstocks"	
12:00-12:40	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	
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	
	END OF DAY 1	

## 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 10:20	Title: "Affordability is the Focus of the Near Zero Energy Houses"	
10:00-10:30	Mark Bomberg, Clarkson University, USA	
	Title: "Advanced Materials for Hydrogen Storage and Compression"	
10:30-11:00	Martin Dornheim, University of Nottingham, UK	
11:00-11:15	COFFEE BREAK	
INVITED TALKS		
Session 01	<ul> <li>Renewable and Recyclable Energy</li> <li>Energy Conversion and Storage</li> </ul>	
11.15 11.40	Title: "Proton Fast Ignition as a Path to Commercial Fusion Energy"	
11:15-11:40	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: "Overcoming Barriers to the Application of Sustainable Aviation Fuels: A Production and Certification Perspective"	
	Shuiting Ding, Beihang University, China	
12:30-13:15	LUNCH BREAK	
13:15-13:40	SLOTS ARE AVAILABLE	
13:40-14:05	SLOTS ARE AVAILABLE	
Session 02	Biofuels & Bioenergy     Clean Energy	
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	SLOTS ARE AVAILABLE	
15:45-16:10	SLOTS ARE AVAILABLE	
16:10-16:25	COFFEE BREAK	
Session 03	Sustainable Finance	
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		
17:15-17:40	SLOTS ARE AVAILABLE	
17:40-18:05		
END OF DAY 2		

Day 3: September 25, 2024

KEYNOTE TALKS		
09:00-09:30		
09:30-10:00	KEYNOTE SLOTS ARE AVAILABLE	
10:00-10:30		
10:30-11:00		
11:00-11:15	COFFEE BREAK	
INVITED TALKS		
Session 04	<ul><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	SLOTS ARE AVAILABLE
13:40-14:05	
Session 05	Environmental Impact and Sustainability
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: "Energy Scenarios for Austrian Industry towards Climate Neutrality"
14.50-14.55	Andreas Windsperger, Vienna University of Technology, Austria
14:55-15:20	Title: TBU
14.55-15.20	So Stuart, University of Exeter, UK
15:20 15:45	Title: TBU
15:20-15:45	<b>Zhang Bo</b> , Dalian University of Technology, China
15.45 16.10	Title: TBU
15:45-16:10	Sara Taherinezhadtayebi, University of Rome, Italy
16:10-16:25	COFFEE BREAK
16:25-16:50	
16:50-17:15	SLOTS ARE AVAILABLE
17:15-17:40	
17:40-18:05	
END OF CONFERENCE	

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