

# The Future Energy Summit - 2026

March 02-04, 2026 | Houston, TX



## Future Energy Summit 2026

March 2-4, 2026

DoubleTree by Hilton Houston Intercontinental Airport

### Program Outline

#### Day 1, March 2 – 8:00 AM – 6:00 PM

##### *Morning*

Registration & Welcome Desk Open  
Opening Ceremony & Welcome Remarks

Plenary & Keynote Session

Panel – Q&A

Conference Photo

Lunch & Networking

##### *Afternoon*

Scientific Session

Track A – Hydrogen Energy & Fuel Cells - 1

Poster Session

Networking & Drinks

#### Day 2, March 3 – 08:00 AM – 06:00 PM

##### *Morning*

Scientific Session

Track B – Hydrogen Energy & Fuel Cells - 2

Lunch & Networking

##### *Afternoon*

Scientific Session

Track C – Solar Energy and Wind Energy

**COIN Symposia LLC**

# 5900 Balcones Dr Suit 100, Austin, TX 78731 **Tel:** +1-512-539-0539

Email: [info@coinsymposia.com](mailto:info@coinsymposia.com), [energy@coin-connect.net](mailto:energy@coin-connect.net), **Web:** <https://futureenergymeet.com/>

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**Day 3, March 4 – 08:00 AM – 02:00 PM**

*Morning*

Concurrent Scientific Sessions  
Track D - Energy Conversion & Storage  
Track E - Biofuels  
Track F – Energy & Environment

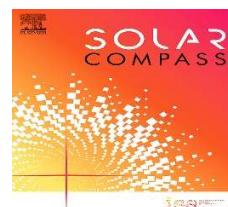
Lunch & Networking

Closing Remarks of In-person Conference and Announcement of 2027 Edition

**Day 4, March 05 | VIRTUAL**

Keynote Talks  
Scientific Sessions

## Our Publication Partners



- Registered attendees of Future Energy Summit 2026, has an opportunity to submit their manuscripts in International Journal of Hydrogen Energy (IJHE) and in Solar Compass journal by Elsevier publication at no APC.

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## List of Speakers

### Plenary & Keynotes

Highlights the Latest in Hydrogen Technologies, Policy Shifts, and the Path Toward a Sustainable Energy Future

Ayfer Veziroglu, President-International Association for Hydrogen Energy Miami, FL

How Man-made Fuels can Help de-ICE™ the World

Terence Collier, CEC Solutions, Richardson, TX

North & Central America Market Outlook

Amanda Duhon, EIC North & Central America, Houston, TX

HydroBoost™ - Augmenting Pumpjacks with Hydrogen and the Fantastic Results

Gregory Sherman, Emit-Less LLC, Palm Beach, FL

Solar Environmental Applications and Emerging Innovations

Dharendra Yogi Goswami, University of South Florida Tampa, FL

The AI Thermal Batteries' Clustering Impacts on Distribution Peak Shaving

Jean Simon Venne, BrainboxAI, Canada

The Sustainability Conundrum

Efstathios E. Michaelides, Texas Christian University, Fort Worth, TX

To be Announced

Leslie M. Gioja, University of Illinois Champaign, IL

Challenging Role of Nonprecious/Transition Metal-Metal Oxides-Conducting Polymer

Composites in a Blended Architecture Toward Outstanding Catalysis in Fuel Cell

Jayathi Datta, Renewable Energy Research Centre-Heritage, India

### Special Talk

Scenario-based Forecasting of the Global Energy Demand and Carbon Footprint of Artificial Intelligence

Metin Turkay, Koc University, Turkey

### Tracks A and B

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Unlocking Next-Gen Energy: An AI-Powered Approach to Accelerate Fuel Cell Optimization  
Omid Babaie rizvandi, Colorado school of mines, Golden, CO

Numerical and Experimental Investigation of Flame Dynamics Leading to Detonation in Hydrogen–Natural Gas Mixtures  
Ramki Murugesan, UI research institutes, Houston, TX

Techno-Economic Assessment of Ammonia & Methanol as Hydrogen Carriers  
Sajag Poudel, Argonne National Laboratory, Chicago, IL

Green Hydrogen Electricity Generation System  
Jose Viriato Coelho Vargas, Florida State University, Tallahassee, FL

Electrochemical Hydrogen Storage in Perovskite-Based Bimetallic Oxides Anchored on Graphitic Carbon Nitride  
Nishith Verma, Indian Institute of Technology Kanpur, India

An Empirical Study of the Economic Viability of Fuel Cell Vehicles in Korea: A Case of Fuel Cell Forklift  
Deok-joo Lee, Seoul National University, South Korea

To be Announced  
Andrea Oyarzun Aravena, Universidad de Magallanes, Chile

The Global Prospects for Industrial Use of Hydrogen: The Analysis of Willingness-to-pay for H<sub>2</sub> in the Evolving Regulatory and Energy Markets Environments  
Svetlana Ikonnikova, Technical University Munich, Germany

NH<sub>3</sub>-Dual Fuel Combustion for Future Sustainability  
Binod Raj Giri, Brandenburg Technical University, Germany

Cross-Scale Modeling of Hydrogen Resistance and Microstructure Design for Enhanced Hydrogen Tolerance  
Berk Tekkaya, RWTH Aachen University, Germany

Study of Real-Time Fuel Cell Diagnosis by using EIS for Dynamic Load Applications  
Izamu Kawahara, University of Tsukuba, Japan

Current Distribution Analysis on PEMFC Using Magnetic Sensors  
Sumito Kanazawa, University of Tsukuba, Japan

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Decarbonization Pathways and Role of Hydrogen in Energy Balance of Kazakhstan  
Nurkhat Zhakiyev, Astana IT University, Kazakhstan

To be Announced

Nicolas Santos Santos, Universidad Industrial de Santander, Colombia

To be Announced

Yen Chun Chou, UC Davis, Davis, CA

A Theoretical Reaction Rate Model of a Chemical Exothermic Decomposition Surface from an External Gas

Eimund Smestad, Nammo Raufoss AS, Norway

To be Announced

Ranjil Basnet, North Summit Hydro Pvt Ltd, Nepal

Multi-Domain Temporal Wind-to-Hydrogen Production Forecasting and LCOH Analysis

Gang Li, Mississippi State University, Starkville, MS

To be Announced

Demetrius Maxey, University of North Dakota, Grand Forks, ND

Kick-Starting Hydrogen Mobility: Technical Principles and Practical Steps for Building the First Refuelling Network for Cars, Buses and Heavy-Duty Vehicles

Vasco Amorim, UTAD | INESC TEC, Portugal

Methane Pyrolysis – Low-emission Hydrogen for Industrial Applications and Solid Carbon as Soil Amendment for Agriculture

Robert Obenaus-emler, University of Leoben, Austria

Credit-Price Thresholds and Infrastructure in Oregon's Clean Fuels Program: Evidence from Ethanol Carbon Intensity, with Implications for Clean Hydrogen

Chukwuemeka Okolo, Oregon State University, Corvallis, OR

## Track C

Improving the Efficiency of Vertical Axis Wind Turbines

Xiuling Wang, Purdue Northwest, Hammond, IN

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The Effect of EV Load Growth Across the US on the Distribution-side Grid Infrastructure

Vladimir Abdelnour, Arizona State University, Tempe, AZ

Analysis of a Hybrid Solar–Battery System

Jannatun Naiem, Alfred University, Alfred, NY

Transmitter and Receiver Design for Space-Based Solar Power Systems

Jiafeng Zhou, University of Liverpool, UK

Advanced Deep Learning Techniques for Time Series: Application to Diagnostics and

Forecasting for Photovoltaic Power Plants

Oumayma Mabrouk, University of Angers, Italy

Advances in Deep Learning Techniques and Applications for Renewable Energy Systems

Forecasting

Abdérafi CHARKI, University of Angers, Italy

Harvesting Infrared Solar Radiation Beyond 1.1  $\mu\text{m}$  Using Hot Carrier Effect through Thin

Metal/Si Structure

Ching-Fuh Lin, National Taiwan University, Taiwan

Experimental and Numerical Investigation of CdTe/Cu Thin Films for Enhanced Solar Cell

Performance

Said Dlimi, Chouaib Doukkali University, Morocco

Simulation of Power System Contingencies using RGRID

Krzysztof Lowczowski, Polish Association for National Security, Poland

## Track - D

Smart Battery Passports: AI-Driven Solutions for Reuse and Recycling in the Energy Sector

Anitha Subburaj, West Texas A&M University, Canyon, TX

Coupling Enhanced Geothermal Power with Hydrogen Production

Charles Sprouse III, Benedictine College, Atchison, KS

To be Announced

Vinitha Hannah Subburaj, West Texas A&M University, Canyon, TX

To be Announced

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Joshua Partheepan, West Texas A&M University, Canyon, TX

Hybrid Functionalities in Catalytic Biomass Valorization  
Martin Nielsen, Technical University of Denmark, Denmark

Advancements in Sustainable Cathode Materials for High Performance Rechargeable Magnesium Ion Batteries  
Masuk Abdullah, University of Debrecen, Hungary

New directions in Lithium-oxygen Batteries  
Moon Park, Argonne national laboratory, Lemont, IL

To be Announced  
Sailin Liu, The University of Adelaide, Australia

To be Announced  
Wangwu Li, The University of Adelaide, Australia

## Tracks E and F

Techno-Economic Viability for Sustainable Recycling of Spent Ammonia Borane Fuel from Methanolysis  
Chi wing Tsang, Technological and higher education institute of Hong Kong, Hong Kong

To be Announced  
Chenxi Wang, Washington State University, Richland, WA

Assessing Advanced Fuels and Chemical Pathways with the R&D GREET Life-Cycle Tool  
Pahola Thathiana Benavides, Argonne national laboratory, Chicago, IL

Potential of CO<sub>2</sub> Geological Storage in Sedimentary Rocks: Petrophysical Evolution and Environmental Implications  
Jimena Gomez, Universidad industrial de Santander, Colombia

Spatial analysis for identifying suitable areas for renewables and the implementation of low-carbon technologies aimed at restructuring Ukraine's energy system  
Iryna Doronina, Technical University of Munich, Germany

A Comparative Analysis of Energy Transition Barriers: A Systematic Literature Review of Malaysia and Singapore  
Vikramathithan Govindasamy, University of Malaya, Malaysia

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## **VIRTUAL PROGRAM**

### **Keynote Session**

Photothermal Heating and Solar Harvesting Through Multiple Transparent Fe<sub>3</sub>O<sub>4</sub>@Cu<sub>2</sub>-xS Thin Films with a Solar Dome

Donglu Shi, University of Cincinnati, Cincinnati, OH

To be Announced

Sayyad Zahid Qamar, Sultan Qaboos University, Oman

### **Scientific Session**

Dusan Bratko, VCU, Richmond, VA

Pooja Sharma, Daulat Ram College University of Delhi, India

Deepak Sharma, Oregon state university, Corvallis, OR

Vladimir Novotny, AquaNova LLC, Boston, MA

Dimitra Vernardou, Hellenic Mediterranean University, Greece

Asli Tiktas, Kırşehir Ahi Evran University, Turkey

Tsang Chi Wing, Technological and Higher Education Institute of Hong Kong, Hong Kong

Sarah Balkissoon, Caribbean Institute for Meteorology and Hydrology, Trinidad and Tobago

Igor Melo, Juiz de Fora Federal University, Brazil

A. M. Abdullah, Sharif University of Technology, Iran

Maedeh Simayee, Sharif University of Technology, Iran

Chang Won Yoon, Pohang University of Science and Technology (POSTECH), South Korea

Alice Cervellieri, Politecnico di Torino, Italy

Lin Wu, Clausthal University of Technology, Germany

Aldona Migala-Warchol, Rzeszow University of Technology, Poland

Ali Teymoori, The University of Bologna, Italy

Kelly Klemme, Federal Reserve Bank of Dallas, Dallas, TX

Yen-Hsin Chan, Feng Chia University, Taiwan

**Slots Available**

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