

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, 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

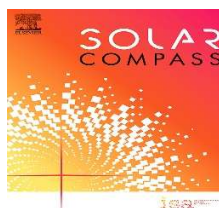
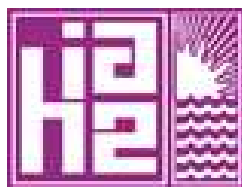
Lunch & Networking

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 H₂ in the Evolving Regulatory and Energy Markets Environments
Svetlana Ikonnikova, Technical University Munich, Germany

NH₃-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 μm 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
Vinita 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 CO₂ 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 $\text{Fe}_3\text{O}_4/\text{Cu}_2\text{-xS}$ 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, Kirsehir 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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