

PARALLEL SESSIONS 4 (HALL: SELİMİYE)

Advanced Energy Systems

15:00 – 15:15 EVT-02 "PREDICTIVE CO-OPTIMIZATION OF ENERGY AND THERMAL MANAGEMENT IN HEAVY-DUTY FUEL CELL VEHICLES" Dominik Köppel, Maximilian Bömerl, Stefan Jakubek, Christoph Hametner
15:15 – 15:30 FCT-01 (Online) "MULTIFUNCTIONAL CE-DOPED LANIO ₃ PEROVSKITE FOR DIRECT AMMONIA-FUELED SOLID OXIDE FUEL CELLS" Ysa Francine N. Perez et al.
15:30 – 15:45 REP-03 (Online) "DESIGN OF A RENEWABLE ENERGY AND WASTE MANAGEMENT SYSTEM FOR HYDROGEN, FRESH WATER AND OXYGEN PRODUCTION" Ayse Sinem Meke, Ibrahim Dincer and Ali Khalvati
15:45 – 16:00 PVT-02 (Online) "THERMAL MANAGEMENT OF PV PANELS USING MACHINE LEARNING FOR OPTIMAL PCM TYPE AND THICKNESS SELECTION" Wisam K. Hussam et al.
16:00-16:15 RES-04 (Online) "DESIGN OF A HOLISTIC ENERGY SYSTEM FOR INUIT OFF-GRID COMMUNITIES" Yasmin Hafez, Ibrahim Dincer
16:15-16:30 BIO-02 (Online) "EFFECT OF BIOMASS TYPE ON ELECTROCHEMICAL BEHAVIOR OF FESO ₄ .7H ₂ O ACTIVATED BIOCHARS " Ayca Capoglu, Ibrahim Dincer
16:30 – 16:40 Questions
19:00 GALA DINNER

WEDNESDAY – JUNE 3, 2026 (GRAND PASHA HOTEL)

9:00 – 9:30 Invited Lecture – 3 (Hall: YILMAZ BALCI)

Prof. Dr. Adnan Midilli

Istanbul Technical University, Türkiye

Title: Exergy-Oriented Solution Strategies for Scaling Hydrogen Energy Systems

9:30 – 10:00 Invited Lecture – 4 (Hall: YILMAZ BALCI)

Assoc. Prof. Dr. Amela Ajanovic

Vienna University of Technology, Austria

Title: Electric Vehicle Markets: Trends, Challenges and Opportunities

10:00 – 10:30 Coffee Break

WEDNESDAY – JUNE 3, 2026 (GRAND PASHA HOTEL)

10:30-12:00 DISCUSSION PANEL (HALL: YILMAZ BALCI)

Discussion Topic:

Solar Energy Transition on Islands: Implications for Cyprus

- Prof. Dr. Ibrahim Dincer, Ontario Tech University, Canada
- Prof. Dr. Reinhard Haas, TU Wien (Vienna University of Technology), Austria
- Prof. Dr. Mustafa Dağbaşı, Cyprus International University
- Prof. Dr. Halil Guven, San Diego State University
- Assoc. Prof. Dr. Amela Ajanovic, Vienna University of Technology
- Asmer Zawaydeh, (AEE) Al Hussein Technical University

Moderator: Prof. Dr. Uğur Atikol, Eastern Mediterranean University

12:00-12:30 CLOSURE

Organizers



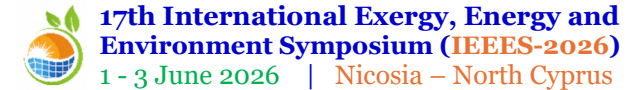
Eastern Mediterranean University-Energy Research Center



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SUNDAY – MAY 31, 2026 (HOTEL SUN – ROOF BAR)

20:00 WELCOME RECEPTION

MONDAY – JUNE 1, 2026 (GRAND PASHA HOTEL)

8:00 – 9:00 Registration

Hall: YILMAZ BALCI

9:00 – 9:15 Welcome Speech

Prof. Dr. Uğur Atikol (Conference Chair)

9:15 – 9:30 Speech of the President of TRNC

Tufan Erhürman

9:30 – 10:15 Keynote Lecture – 1

Prof. Dr. İbrahim Dincer

Ontario Tech University, Canada

Title: Alternative Energy and Exergy Dimensions

10:15 – 11:00 Keynote Lecture – 2

Prof. Dr. Fariborz Haghghat

Concordia University, Canada

Title: Integration of Energy Storage with Buildings - Managing Energy Demand and Emissions

11:00 – 11:30 Coffee Break

PARALLEL SESSIONS 1 (HALL: YILMAZ BALCI)

Energy Storage

11:30 – 11:45 EST-02 "THERMAL ANALYSIS OF A VANADIUM REDOX FLOW BATTERY WITH A GRADED POROSITY ELECTRODE" Phil-Jacques Alphonse, Mert Taş, Gülşah Elden

11:45 – 12:00 MSC-03 "ELECTROLYSIS-BASED HYDROGEN AND AMMONIA AS ELEMENTS OF SUSTAINABLE AGRICULTURAL INTENSIFICATION IN SUB-SAHARAN AFRICA" Andreas Stamm, Christine Bosch

12:00 – 12:15 EST-04 "COMPARATIVE PERFORMANCE ASSESSMENT OF EAF SLAG AND SINTERED ORE AS PACKED-BED THERMAL ENERGY STORAGE FILLERS FOR ORGANIC RANKINE CYCLE WASTE HEAT-TO-POWER CONVERSION" David Ogbemudia, Keyvan Bauloulli, Berke Eyyamoglu

12:15 – 12:30 EST-07 "AN EXPERIMENTAL INVESTIGATION OF CHARGING TEMPERATURE EFFECTS ON THE ENERGY PERFORMANCE OF A PUMICE-CACL₂ COMPOSITE THERMOCHEMICAL MATERIAL" Asli Akyol Inada, Devrim Aydın, Yuehong Su, Saffa Riffat

12:30 – 12:40 Questions

MONDAY – JUNE 1, 2026 (GRAND PASHA HOTEL)**PARALLEL SESSIONS 1 (HALL: SELİMİYE)**

Hydrogen Production

11:30 – 11:45 HES-02 "EXPLORING THE CHALLENGES OF DEVELOPING LOW-EMISSION HYDROGEN PRODUCTION TECHNOLOGIES IN TÜRKİYE: A PESTEL PERSPECTIVE"
Melisa Öztekin Pala, Ece Oyan

11:45 – 12:00 EST-03 (Online) "A LEARNING-FREE EXPLAINABLE INTELLIGENT AGENT FOR REAL-TIME HOME MANAGEMENT WITH PHOTOVOLTAIC AND BATTERY STORAGE" Ozan Gül

12:00 – 12:15 HES-03 (Online) "EXPERIMENTAL ASSESSMENT OF TITANIA AND FERRIC OXIDE-BASED CATALYSTS FOR PHOTOCATALYTIC HYDROGEN PRODUCTION"
Mohamad Ayoub, Ibrahim Dincer

12:15 – 12:30 HES-04 (Online) "GREEN BIOELECTROLYTE DERIVED FROM TEA WASTE FOR HYDROGEN PRODUCTION USING ACIDIC WATER ELECTROLYSIS" A. Yagmur Goren, Ibrahim Dincer

12:30 – 12:40 Questions

12:40 – 14:00 Lunch Break

Hall: YILMAZ BALCI

14:00-14:30 Invited Lecture-1

Prof. Dr. Arif Hepbaşı, Yaşar University, Türkiye
Title: Towards Exergy-Oriented Sustainable Cities: Integrating BIM, LEED, and SECAP through ISO 37120

14:30 – 15:00 Coffee Break

PARALLEL SESSIONS 2 (HALL: YILMAZ BALCI)

Cooling Energy for Buildings

15:00 – 15:15 BES-01 "TWO DECADES OF RESEARCH ON ENERGY EFFICIENCY IN BUILDINGS: A BIBLIOMETRIC AND KEYWORD CO-OCCURRENCE ANALYSIS (2005-2025)" Manta Marcelinus Dakyen, Murat ENERGY Özdenefe, Mustafa Dağbaşı

15:15 – 15:30 BES-02 "THE IMPACT OF MATERIAL USE ON THERMAL COMFORT: A CASE STUDY OF HOUSING RENOVATION IN GHARDAÏA, ALGERIA" Younes Boukhari, Harun Sevinç

15:30 – 15:45 BES-04 "DYNAMIC SIMULATION OF A SOLAR ASSISTED COOLING SYSTEM FOR RESIDENTIAL PURPOSE IN THREE CITIES IN TURKEY" Oluwaponmile David Alao, Muhammad Abid, Mustafa Dagbasi

15:45 – 16:00 ENV-01 "THE RELATIONSHIP BETWEEN DECARBONIZATION AND EXERGY IN THE TRANSPORTATION SECTOR IN TURKEY" Büşra Selenay Önal, Zafer Utlu

16:00 – 16:15 "INTELLIGENT SOLAR AIR CONDITIONER FOR A SUSTAINABLE GRID DEVELOPED BY ACS" Onur Aykut

16:15 – 16:25 Questions

PARALLEL SESSIONS 2 (HALL: SELİMİYE)

Advanced Energy Systems

15:00 – 15:15 MSC-05 "INTEGRATING ENERGY, EXERGY, AND ENTROPY INTO NATIONAL POLICY AND PROCESS OPTIMIZATION: A THERMODYNAMIC PERSPECTIVE ON SUSTAINABLE DEVELOPMENT" Nurdan Güven, Zafer Utlu

15:15 – 15:30 HES-05 (Online) "AN INTEGRATED HYDROGEN PRODUCTION AND ENERGY RECOVERY SYSTEM FOR WASTEWATER TREATMENT PLANTS" Ahmet Faruk Kilicaslan, Ibrahim Dincer

15:30 – 15:45 HES-06 (Online) "INVESTIGATION OF HYDROGEN PRODUCTION AND SODIUM HYPOCHLORITE FORMATION IN A GRANULAR ACTIVATED CARBON-BASED NaCl ELECTROLYSIS SYSTEM" Sevde Elmali, Ibrahim Dincer

15:45 – 16:00 EST-05 (Online) "COMPUTATIONAL THERMODYNAMIC AND DFT ANALYSIS OF A LANTHANUM MANGANITE-BASED REDOX CYCLE FOR THERMOCHEMICAL ENERGY STORAGE" Rahul R. Bhosale

16:00 – 16:15 EST-06 (Online) "THERMOCHEMICAL ENERGY STORAGE USING CALCIUM FERRATE: THERMODYNAMIC AND DFT ANALYSIS" Rahul R. Bhosale

16:15 – 16:25 Questions

TUESDAY – JUNE 2, 2026 (GRAND PASHA HOTEL)

9:00 – 9:45 Keynote Lecture – 3 (Hall: YILMAZ BALCI)

Prof. Dr. Reinhard Haas

Vienna University of Technology, Austria
Title: Energy Economic Prospects for Green Hydrogen in Europe

9:45 – 10:30 Keynote Lecture – 4 (Hall: YILMAZ BALCI)

Prof. Dr. Feridun Hamdullahpur

University of Waterloo, Canada
Title: Re-imagining Future Energy Systems Through Design, Evaluation and Governance Perspectives

10:30 – 11:00 Coffee Break

PARALLEL SESSIONS 3 (HALL: YILMAZ BALCI)

Renewable Energy

11:00 – 11:15 REP-01 "ENERGY AND EXERGY ASSESSMENT OF A SOLAR PTC-DRIVEN POLYGENERATION SYSTEM FOR POWER, COOLING, FRESHWATER AND HYDROGEN PRODUCTION" Berke Eyyamoglu et al.

11:15 – 11:30 RES-02 "WAVE ENERGY CHALLENGES IN THE MEDITERRANEAN SEA" Salih E. Uzun, Uğur Atikol

11:30 – 11:45 RES-03 "SUSTAINABLE ENERGY DEVELOPMENT AND POLICY CHALLENGES: THE CASE OF KANO STATE" Abubakar Yahuza Ado, Meliz Hastunç

11:45 – 11:55 Questions

PARALLEL SESSIONS 3 (HALL: SELİMİYE)

Miscellaneous

11:00 – 11:15 BIO-01 "POTENTIAL OF BIOGAS PRODUCTION USING ANIMAL WASTE IN POWER SECTOR: AN ENERGY AND EXERGY ANALYSIS" Ibrahim Modibbo Ahmed, Ertan Akun, Rena Kidak

11:15 – 11:30 CRB-01 "FIELD-BASED SCREENING CRITERIA FOR CO₂ STORAGE IN ONSHORE SALINE AQUIFERS: A COMPARATIVE REVIEW OF SIX PROJECTS" Haris Nusrat, Gamze Ipek

11:30 – 11:45 MSC-02 "NANOFLUIDS AND HYBRID NANOFLUID CONVECTION HEAT TRANSFER IN A TUBE" Amirreza Radmanesh, Nihad Dukhan

11:45 – 11:55 Questions

11:55 – 14:00 Lunch Break

Hall: YILMAZ BALCI

14:00-14:30 Invited Lecture-2**Prof. Dr. Tanay Sıdkı Uyar**

Istanbul Gedik University, Türkiye
Title: Frontier Agriculture: A village WEF demonstration project of Renewable Energy Association EROSOLAR Türkiye

14:30 – 15:00 Coffee Break

PARALLEL SESSIONS 4 (HALL: YILMAZ BALCI)

Miscellaneous

15:00 – 15:15 UTL-01 "AN EMPIRICAL ANALYSIS OF POWER INTERRUPTIONS AND DEMAND STRESS IN AN ISOLATED ISLAND POWER SYSTEM: EVIDENCE FROM NORTH CYPRUS" Quadri Yinka Quadri, Victor Ayodeji Oluwasusi

15:15 – 15:30 FOR-01 "DEEP LEARNING-BASED WEATHER FORECASTING FOR PAKISTAN" Ebad Ul Haq et al.

15:30 – 15:45 PVT-01 "PASSIVE COOLING OF PHOTOVOLTAIC CELLS USING CARBON NANO FIBER ENHANCED PHASE CHANGE MATERIAL" Hussain Shawish, Murat Özdenefe

15:45 – 16:00 EVT-01 "ELECTRIC VS FUEL: NIGERIA'S WELL TO WHEEL VEHICLE STUDY" Christopher Nwachinemelu, Meliz Hastunç

16:00-16:15 BES-03 "FROM "BLUEPRINT" TO "GREEN PRINT" NEW URBAN AGENDA: FOR SUSTAINABLE SOCIAL HOUSING DEVELOPMENT IN YAOUNDÉ BASED ON THE UN SUSTAINABLE DEVELOPMENT GOALS" Erna Audrey Mangaleu Toukam, Harun Sevinç

16:15-16:25 Questions