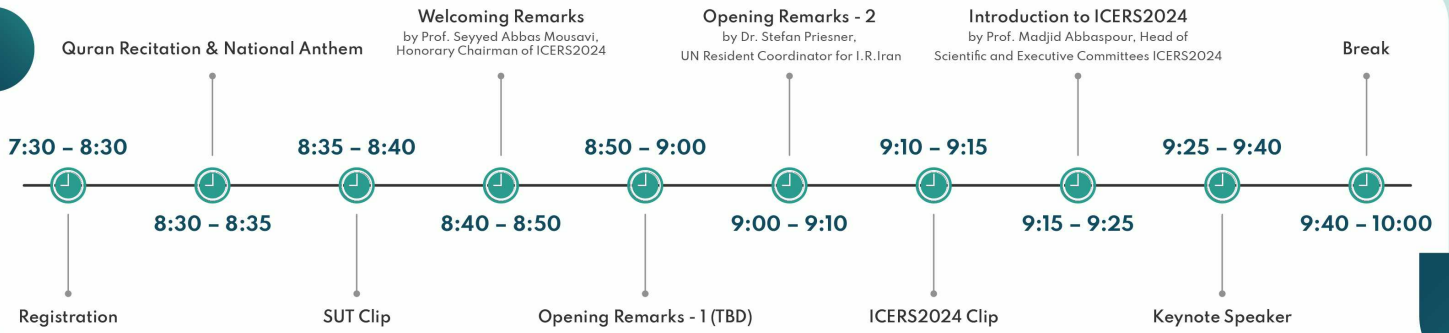


18 Apr 2024 / Day I , National Library of Iran, Tehran



10:00 - 12:00

“Energy Policy and Planning”



Panel Coordinator: Prof. Janos Bogardi
(Ex. Vice Rector of United Nations University in Europe, Ludovika University of Public Service, Hungary)

Panelists:

- Prof. Janos Bogardi
- Prof. Abbas Maleki, Energy Department, SUT
- Prof. Hassan Badkoobei, National University, San Diego, California
- Prof. Hashem Oraee, President of Iran Energy Associations Syndicate
- Representative of the Ministry of Energy of Iran

(Each 10 min. intervention + Discussion & FAQ)

Panel Discussion I

Lunch Break

13:30 - 15:30

“Energy Governance and Management”



Panel Coordinator: Prof. Reza Ardakanian
(Founding Director of United Nations University Institute of Integrated Management of Material Fluxes and Resources (UNU-FLORES))

Panelists:

- Prof. Reza Ardakanian
- Prof. Nadejda Komendantova, Cooperation and Transformative Governance Group Leader at International Institute for Applied Systems Analysis (IIASA)
- Prof. Ali Akbar Matkan, Secretary General of the UNESCO National Commission, Iran OPEC Representative (TBD)
- Representative of the Ministry of Petroleum of Iran
- Prof. Majid Amidpour, President of Niroo Research Institute

(Each 10 min. intervention + Discussion & FAQ)

Panel Discussion II

Break

16:00 - 18:00

“Emerging Technologies and Industries”



Panel Coordinator: Prof. Bahram Taheri
(Amirkabir University of Technology, Iran)

Panelists:

- Prof. Bahram Taheri
- Dr. Maryam Javan shahraki, UNIDO Representative in Iran
- Prof. Seyed Moslem Mousavi Dorcheh, Chief Executive Officer at Iran Renewable Energy Association (IrREA)
- Prof. Nikolay Bobylev, St. Petersburg State University, Russia
- Prof. Azim Kalantari Asl, Head, Research Institute of Petroleum Industry, Iran
- Representative of Ministry of Industry, Mine and Trade, Iran

(Each 10 min. intervention + Discussion & FAQ)

Panel Discussion III



19 Apr 2024 / Day II , National Library of Iran, Tehran



8:20 – 10:00

“Energy Financing and Investment “



Panel Coordinator: Prof. Alinaghi Mashayekhi
(Professor of Management, SUT)

Panelists:

- Prof. Alinaghi Mashayekhi, Professor of Management, SUT
- TBD
- Prof. Amadou Thierno Gaye, Former Director General of Research and Innovation at Senegal Ministry of Higher education, research and innovation
- Prof. Majid Ghassemi, Chief Executive Officer of Bank of Pasargad, Iran
- Representative of Plan and Budget Organization, Iran

(Each 10 min. intervention + Discussion & FAQ)

Break

10:30 – 12:30

“Energy and Environment“



Panel Coordinator: Prof. Madjid Abbaspour
(Board Member of Sharif Energy, Water and Environment Institute, SUT)

Panelists:

- Prof. Madjid Abbaspour
- Prof. Saad Mekhilef, Director of Power Electronics and Renewable Energy Research Laboratory, University of Malaya, Malaysia
- Prof. Reza Maknoon, The Academy of Sciences, Iran
- Prof. Nadejda Komendantova, Cooperation and Transformative Governance Group Leader at International Institute for Applied System Analysis (IIASA)
- Representative of Department of Environment, Iran

(Each 10 min. intervention + Discussion & FAQ)

Lunch Break

14:00-16:00

“Energy Security”



Panel Coordinator: Prof. Seyed Komail Tayebi
(Science Foundation of ECO)

Panelists:

- Prof. Seyed Komail Tayebi
- Prof. Brian Norton, Vice-President of European Academies Science Advisory Council, Ireland
- Prof. Naser Bagheri Moghaddam, Energy Commission, Supreme Council of Science, Research and Technology of Iran
- Prof. Ali Akbar Salehi, Ex. Ministry of Foreign Affairs of Iran
- Mr. Hamid Chitchian, Ex. Minister of Energy of Iran
- Representative of the Ministry of Foreign Affairs of Iran

(Each 10 min. intervention + Discussion & FAQ)

Panel Discussion IV

Panel Discussion V

Panel Discussion VI



19 Apr 2024 / Day II , National Library of Iran, Tehran



Break

16:30 – 18:30

“Energy Resources”



Panel Coordinator: Prof. Brian Norton
(Vice-President, Science Advisory Council of European Academies, Ireland)

Panelists:

- Prof. Brian Norton
- Prof. Halil Hasar, Directorate of Climate Change at Ministry of Environment, Urbanization and Climate Change, Turkey
- Prof. Ali Akbar Salehi, Ex. Ministry of Foreign Affairs of Iran
- Prof. Amadou Thierno Gaye, Former Director General of Research and Innovation at Senegal Ministry of Higher education, research and innovation
- Representative of Atomic Energy Organization, Iran

(Each 10 min. intervention + Discussion & FAQ)

Panel Discussion VII



21 Apr 2024 / Day IV , Prof. Rabiee Auditorium, Sharif University of Technology

7:30 ————— Registration ————— 8:20

Oral Presentations

- 🕒 8:20 - 8:40

Title: Energy Policy in Iran: The proper path to the clean energies

Presenter: Prof. Abbas Maleki

- 🕒 8:40 - 9:00

Title: Russia's Cyber Security Policy for Atomic Energy Sector

Presenter: Prof. Radomir Bolgov

- 🕒 9:00 - 9:20

Title: Energy Conservation and Sustainability Methodology to predict the alternative future Iranian Energy

Presenter: Prof. Hassan Badkoobehi

- 🕒 9:20 - 9:40

Title: Greenhouse gas inventories on disturbed peatlands as part of the Carbon Supersite Programme in the Russian sector of the Baltic Region

Presenter: Prof. Maxim Napreenko
Dr. Leyla Bashirova

- 🕒 9:40 - 10:00

Title: The Main Research Directions of the Consortium "Global Earth Changes: Climate, Ecology, and Quality of Life"

Presenter: Prof. Victor Dyomin

Poster Presentations

- 🕒 8:20 - 8:40

Title: Specialists Training 4.0 for Sustainable Development Goals

Presenter: Prof. Svetlana Kuzmina

- 🕒 8:40 - 9:00

Title: Developing a PESTLE based model for the Factors that Drive Implementation of Synergistic Energy Solutions in the Middle East

Presenter: Maryam A. Borojerdi

- 🕒 9:00 - 9:20

Title: Leveraging Natural Gas for Enhanced Energy Security: A Comprehensive Analysis of Iran's Role in the Global Energy Landscape

Presenter: Parinaz Soleimani

- 🕒 9:20 - 9:40

Title: Integrated Resource Management in the Wake of Climate Change: A Nexus Approach for Water, Food, and Energy Security

Presenter: Hamidreza Esmaeilinejad

- 🕒 9:40 - 10:00

Title: Integrated Resource Management Under Climate Change: A Strategy Framework for an Arid Central Iranian Watershed

Presenter: AmirArdalan Amiri

10:00 ————— Break ————— 10:20



21 Apr 2024 / Day IV , Prof. Rabiee Auditorium, Sharif University of Technology

Oral Presentations

-  10-20 - 10:40

Title: Presentation of Iran's Proposed MRV Model Based on National Conditions and a Comparative Study of the World's MRV Systems

Presenter: Dr. Dordaneh Aghajani

-  10:40 - 11:00

Title: Sequestered Carbon in the Above-Ground Phytomass of Forests Affected by Fires of Different Intensity

Presenter: Prof. Matveev Sergei

-  11:00 - 11:20

Title: Techno-Economic Feasibility of Underground Hydrogen Storage in Iran: A Path to Sustainable Energy Integration

Presenter: Dr. Hassan Mahani

-  11:20 - 11:40

Title: Techno-Economical Evaluation of Hydrogen-fueled Gas Turbines for Electricity Generation in Iran


Presenter: Dr Hossein Khajepour

-  11:40 - 12:00

Title: Efficiency of geothermal energy as a renewable energy source: Energy performance of energy pile and energy diaphragm wall


Presenter: Prof. Mohammad Mahdi Ahmadi

Poster Presentations

-  10:20 - 10:40


Title: Corporate Social Responsibility in the Energy Management and Sustainability

Presenter: Dr. Sadaf Estanti

-  10:40 - 11:00

Title: Strategic Decision-Making for Petrochemical Plants: Evaluating and Selecting Optimal Hybrid Renewable Energy Systems Through Sustainability and Resiliency Criteria

Presenter: Samaneh Habibzadeh

-  11:00 - 11:20


Title: Digital Transformation of Oil and Gas Companies: Energy Transition and Hydrocarbon Reduction

Presenter: Ali Dehghanchaharabi

-  11:20 - 11:40

Title: The Role of Energy Governance in the National Security of Oil Producing Countries



Presenter: Dr. Reyhaneh Loni

-  11:40 - 12:00


Title: Developing Energy Hub as a Key to Improve Energy Governance

Presenter: Dr. Reyhaneh Loni

Lunch

-  12:00 ————— 13:30
-  13:30 - 13:50

Title: Introducing a Novel Method to Produce Energy from Marine Turbines Installed on the Persian Gulf Bridge

Presenter: Dr. Reyhaneh Loni
-  13:30 - 13:50

Title: Investigating and Comparing the Methods of Providing Capital in the Electricity Industry (Comparing the Two Methods of Mutual Sale and Guaranteed Purchase)

Presenter: Mousa Mehdikarami



21 Apr 2024 / Day IV , Prof. Rabiee Auditorium, Sharif University of Technology

Oral Presentations

-  13:50 - 14:10
Title: Fault Diagnosis of Power Grid Equipment based on Artificial Intelligence with Limited Data
Presenter: Prof. Svetlana Petrova

-  14:10 - 14:30
Title: Autonomous Hybrid Power Plants Based on Renewable Energy Sources for Off-Grid Rural Electrification
Presenter: Prof. Georgii A. Konoplev

-  14:30 - 14:50
Title: A Review of Vehicle-to-Grid (V2G) Technology as a Solution to Increasing Renewable Integration and Electrification
Presenter: Prof. Mohamad Taghi Ahmadian

-  14:50 - 15:10
Title: Autonomous Solar Measurement System for Sustainable Solar Energy
Presenter: Prof. Fedor A. Gubarev

-  15:10 - 15:30
Title: An Efficient Solar Desalination System for Oil Fields, Increasing the Water Output by Modifying the Condensing Glass Surface
Presenter: Prof. Shahab Ayatollahi

-  15:30 - 15:50
Title: Simultaneous supply of energy and water by rainwater harvest from the roof of the greenhouse structure with a solar panel
Presenter: Eng. Majid Zarezadeh

Poster Presentations

-  13:50 - 14:10
Title: Economic Study of the Idea of Selling the Capacity Certificate in Financing the Energy Sector
Presenter: Mousa Mehdikarami

-  14:10 - 14:30
Title: Determination of Thermal Properties of Soil in Solar Greenhouses
Presenter: Prof. Afdandil Vardiyashvili

-  14:30 - 14:50
Title: The Global Outlook of the Renewable Energy Resources from Oceans
Presenter: Dr. Shahnaz Bahmanyar

-  14:50 - 15:10
Title: Design Parameters Optimization of Micro-hydro Archimedean Screw for Sustainable Energy Generation
Presenter: Dr. Kazem Shahverdi

-  15:10 - 15:30
Title: Computational comparison among different biomass feedstocks
Presenter: Vanoosheh Ghazanfari Savadkoohi

-  15:30 - 15:50
Title: Optimizing Energy Efficiency in Building Sector through the Use of Solar Energy: Case Study of Daylight Control Systems
Presenter: Ali Kangazian



Break

16:10






21 Apr 2024 / Day IV , Prof. Rabiee Auditorium, Sharif University of Technology

Oral Presentations

-  16:10 - 16:30
Title: economic and environmental improvement of the simultaneous production of electricity and heat from photovoltaic panels in residential houses and small industries based on the goals of energy subsidies in Iran
Presenter: Dr. Ebrahim Gogonani
-  16:30 -16:50
Title: A Framework for Optimizing the Environmental, Technical, and Economic Performances of Natural Gas Liquids (NGL) Recovery Process
Presenter: Dr. Abolghasem Kazemi
-  16:50 - 17:10
Title: Performance Evaluation of Hydrogen-Natural Gas Blends in Gas Turbines: a Case Study of the MAPNA MGT-75 Gas Turbine
Presenter: Dr. Ramin Haghighi Khoshkhoo
-  17:10 - 17:30
Title: Energy Supply of Natural Gas Liquefaction Process Using Renewable Energy Sources: Technical, Economic and Environmental Study
Presenter: Dr. Mehdi Sharifzade

Poster Presentations

-  16:10 - 16:30
Title: The Feasibility of Installing FPV on the Reservoirs of Dams in Hormozgan Province to Produce Energy and Reduce the Amount of Water Evaporation
Presenter: Majid Zarezadeh
-  16:30 - 16:50
Title: Optimal Design of Renewable Energy Hybrid Systems Using MATLAB: A Comparative Analysis with PV Syst Software and Sensitivity Analysis
Presenter: Hassan Bazoubandi
-  16:50 - 17:10
Title: Study of Diesel Operation on Diesel and Bioethanol-Containing Fuel
Presenter: Dr. Sobir Utaev

End



20 Apr 2024 / Day III , Prof. Rabiee Auditorium, Sharif University of Technology

7:30 — Registration — 8:20

8:20 — Welcome Notes — 8:30

8:30 — TED Talk 1 — 9:30

TED Talk 1



Title: The Concept of Sustainable Development: a Critical Analysis

Presenter: Prof. Janos J. Bogardi

Goals: The proposed TED talk, while acknowledging the importance to guide development according the principles of sustainability would highlight some problems which are related to and make the practical implementation of the concept of sustainability difficult. Some proposals which may facilitate the practical realization of the principle of sustainability will be made.

9:30 — TED Talk 2 — 10:20

TED Talk 2



Title: Role of Policymaking in Accelerating the Energy Transition

Presenter: Prof. Halil Hasar

Goals: To provide the audience and attendees with the insights into the role of policymaking in the energy transition with its limitations and potential to accelerate the transition.

10:20 — Break — 10:40

10:40 — TED Talk 3 — 11:40

TED Talk 3



Title: Cooperation and Transformative Governance of Energy Resilience and Sustainability

Presenter: Prof. Nadejda Komendantova

Goals: To provide the audience with insights from various projects and good practices on energy resilience and sustainability with the focus on cooperation and transformative governance including cooperation models, decision support systems and good practices from various countries and regions.

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11:40 — TED Talk 4 — 12:00



Title: TBD
Presenter: Prof. Aliakbar Matkan
Goals: TBD

12:00 — Lunch — 13:30

13:30 — TED Talk 5 — 14:00



Title: TBD
Presenter: Prof. Seyed Komail Tayebi
Goals: TBD

14:00 — Workshop 1 — 15:20



Title: Climate Change and Carbon Management Instruments
 (a Global Analytical Assesment of the Current and Future Trends)
Presenter: Prof. Bahram Taheri
Goals: The Workshop will touch upon:

- International Political Instruments and Local Policy Options
- Technological Nexus
- Circular and NBS Innovations and Solutions
- Economic Instruments
- National and Border Taxes
- Allowances and Carbon Markets
- Social Inclusivity and Involvement within a Just Transition,
- It will finally explore the ways in which COP 29 can be instrumental in enhancing the efficacy of instruments?

TED Talk 4

TED Talk 5

Workshop 1



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15:20

TED Talk 6

16:00

**Title:** Dynamic Analysis and Design Assessment of Offshore Renewable Energy Systems**Presenter:** Prof. Madjid Karimirad (**online**)**Goals:** Understanding the challenges and opportunities in offshore renewable; Being familiar with the importance of dynamic analysis in the proper design of offshore wind, floating solar, wave energy and hybrid marine platforms

TED Talk 6



16:00

Break

16:20



16:20

TED Talk 7

17:00

**Title:** Power Electronics as the Enabling Technology for a Modern Carbon Neutral Society**Presenter:** Prof. Saad Mekhilef**Goals:** The objectives of power electronics as an enabling technology for a modern carbon-neutral society revolve around improving energy efficiency, integrating renewable energy, supporting electrified transportation, enabling smart grids, facilitating energy storage, promoting demand response, and enhancing the electrification of various industrial processes. These objectives collectively contribute to building a sustainable and environmentally friendly energy ecosystem.

TED Talk 7



17:00

Workshop 2

19:00

**Title:** Decarbonisation of Buildings**Presenter:** Prof. Brian Norton**Goals:** To provide an understanding of the challenges and constraints reducing the operational and embodied greenhouse gas emissions and energy particularly in existing buildings whilst maintaining the health and amenity of the building for its occupants.

Workshop 2