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IRENEC 2016
6th INTERNATIONAL 100% RENEWABLE ENERGY CONFERENCE

26-28 MAY 2016 Istanbul www.irenec.org

Transition to Ecological and Democratic Societies Using 100% Renewable Community Power

During the Conference there will be simultaneous translation available. Presentations can be made in English or Turkish.

Transition of communities, islands, countries and regions to 100% Renewable Energy (RE) can be realized only by the local, national and regional governments which are on the solution side.

The green solution in the energy field is the achievement of 100% renewable energy target by the integration of the energy end-use efficiency, smart grids and storage of the renewable energy using the best available technologies

Energy-Economy-Ecology decision making models and Internalization of Externalities are required to plan the future energy systems with the technologies of the future and to eliminate the dislocation of obsolete technologies from one market to another in our global living space.

Renewable Energy Association of Turkey (EUROSOLAR Turkey), once again brings you the annual International 100% Renewable Energy Conference (IRENEC 2016). As per the vision of the Association, IRENEC conferences provide an international platform for the sharing of knowledge and ideas regarding the technical, economic, and political aspects of the transition to 100% Renewable Energy and for building the networks to realize this vision through industry, architecture, transportation, local communities and training.

Renewable Energy Assocation of Turkey

EUROSOLAR Turkey

CONFERENCE TOPICS

Biomass
- Small-scale biomass combustion power generation
- Biomass for power and heat generation in large scale applications
- Biomass gasification power generation and applications
- Production and applications of biomass molding fuels (solid biofuels: pellets/briquettes)
- Bioenergy resources and potentials
- Production supply and logistics of biomass from forestry and agricultural residues
- Household biogas production and comprehensive utilization
- Bioelectricity production
- Biofuels in future transportation systems
- Environmental sustainability of biomass and bioenergy.
- Socio-economic assessment of biomass and bioenergy;
- Integration of bioenergy with other renewable energy sources
- Other issues related to Biomass and Technologies
- Bioenergy national policies and strategies for international cooperation
- Bioenergy and biofuel markets and international trade
- Other issues related to Biomass and Technologies

Clean Transportation Technologies & Strategies
- Renewable Energy in Transport Sector
- Transport Electrification and Integration of Renewable Energy
- Solar Powered Vehicles
- Hydrogen Vehicles
- Policy, Planning and Economics
- Energy Efficiency in Transportation
- Transportation Applications
- Sustainable Transports Based on Renewable Energy

Economic, Environmental & Policy Issues for Energy
- Energy Economics, Incentives
- Renewable Energy Commercialization
- Energy Policies, Decision Support Models
- Legal Framework
- Barriers to Renewable Energy Integration
- Climate Change Effects, Mitigation and Adaptation
- Carbon Management and Finance
- Renewable Solutions to Global Warming
- Air Pollution and Energy Security
- Internalisation of External Costs and Social Costs

"Energy Efficiency" & "Zero/PLus Energy" Concept in Architecture
- Sustainable Architecture and Design
- Passive Design
- Energy Plus Buildings
- Green Buildings/ Net Zero Energy Buildings
- Solar Architecture and Building Integration
- Daylighting
- Rational Use of Energy in Buildings
- Advanced HVAC
- Building Material and Components
- Smart City

Energy Transition
- European Experience
- Global Experience
- Local Experience

Geothermal
- Power Generation
- Geothermal Field
- Geothermal Heat Pumps
- Geo-Heat
- Environmental Aspects
- Other issues related to Geothermal and Technologies

Hydrogen & Fuel Cells
- Hydrogen Energy Systems
- Hydrogen Production
- Hydrogen Supply and Storage
- Hydrogen End-Use Technology
- Hydrogen vehicles
- Materials for hydrogen systems
- International perspectives on hydrogen
- Government policies on hydrogen
- Fuel Cells
- Fuel Cell for Transportation
- Fuel Cell Power Plants

Local or Global Level Actions in Shifting to 100%
- Energy Education and Training
- Renewable Energies and Society
- Capacity Building at All Levels
- Renewable Energy Resource Assessment

Ocean Energy
- Wave Energy
- Off-Shore Wind Energy
- Ocean Marine Biomass
- Deep Sea Water Application
- Ocean Resources for Energy

Photovoltaic
- PV Cells, Materials and Components
- Advanced Materials and Concepts
- Crystal Silicon Solar Cells and Modules
- Thin Film Silicon Solar Cells and Modules
- Design, Operation and Performance of PV Systems
- PV Systems and Grid Integration
- Concentrating PV
- Outdoor performance
- Failure analysis
- Lifetime testing
- Other issues related to PV fundamentals and technologies

Shifting to 100% Renewables in Sectors
- National Renewable Energy Action Plans
- Rural Energy Supply
- Residential Energy Supply
- Industrial Energy Supply
- Transportation Energy Supply

Solar Energy
- Solar Collectors
- Solar and Heat Pump Systems
- Solar Domestic Hot Water and Combisystems
- Solar Cooling and Air Conditioning
- Solar Heat for Industrial and Commercial Systems
- Solar District Heating and Cooling
- Solar Cooker
- Solar Distillation and Solar Thermal Desalination

Wind Energy
- Policies
- Site Assessments and Forecasting
- Offshore Wind Power
- Wind Turbine Technology
- Plant Design and Management
- Grid Connection and Electrical Systems
- Small to Medium Wind Turbines
- Large wind turbine and wind farms implementation
- Social and Environmental Issues
- Wind Power Aeroacoustics
- Energy Mix
- Innovative Storage Technologies, Load Balancing and Methodologies for 100% Renewable
- Wind technology in harmony with the environment and aviation

Türkiye Yenilenebilir Enerji Birliği

EUROSOLAR Türkiye