

Association for Research and Promotion of Energy
Efficiency and Sustainable Development
SKEEOR - Skopje

Fifth student conference Energy
Efficiency and Sustainable
Development



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**FIRST CALL FOR
PAPERS**



Association for Research and Promotion of Energy
Efficiency and Sustainable Development



Faculty of Electrical Engineering and Information
Technologies – Skopje



IEEE Republic of Macedonia Section



MAKO CIGRE

Invite you to take part in the 5th student conference

ENERGY EFFICIENCY AND SUSTAINABLE DEVELOPMENT

■23-25 November 2017■

■Skopje, Republic of Macedonia■

● **Conference goals and objectives**

By motivating the students to work on projects related to energy efficiency and sustainable development, a significant contribution towards their creativity in these areas can be made. This is one of the crucial aspects of reaching the currently existing goals in these fields and overcoming the challenges we will have to face in the future. The Student Conference Energy Efficiency and Sustainable Development presents a great opportunity for the students to take part in this process and by presentation of their research, discussion and collaboration- to contribute furthermore towards development of ideas about the wide range of possibilities that these areas have to offer. The conference as an event of this type will also have a huge positive impact on the people's awareness of this issue.

● **Scientific fields of the conference**

A. RENEWABLE ENERGY SOURCES

- A1. Direct and indirect usage of renewable energy
- A2. Design and construction of renewable energy power plants
- A3. Hybrid renewable energy systems for electric power generation
- A4. Distributed power generation from renewable energy sources
- A5. Power grid integration of renewable energy sources
- A6. Renewable energy storage technologies

B. ENERGY EFFICIENT DEVICES, MEASUREMENTS AND DIAGNOSTICS

- B1. Energy efficient electric machines, devices and apparatus
- B2. Energy efficiency in electric drives
- B3. Power control devices and possibilities for power quality improvement
- B4. Measuring the energy efficiency of facilities and processes
- B5. Energy efficient electronic consumers influences over the electric power system
- B6. Electrical energy savings in households and industries

C. SMART GRIDS AND AUTOMATION OF BUILDINGS

- C1. Energy efficient networking
- C2. Smart grids - concepts and trends
- C3. Computer applications and supported design of electric power systems and renewable energy systems
- C4. Automation of processes and facilities to ensure the utilization of RES

C5. Automation of buildings for improving energy efficiency and savings

C6. Possibilities for using ICT for renewable energy and information technologies

D. ELECTRIC VEHICLES AND ENERGY EFFICIENT TRANSPORTATION

D1. Electric and hybrid vehicles

D2. Fuel cell vehicles (FCV)

D3. Energy efficient transportation

D4. Managing energy for transportation

D5. Internal transport and storage facilities

E. ENERGY EFFICIENCY IN CIVIL ENGINEERING AND ARCHITECTURE

E1. Passive and zero energy buildings

E2. Energy efficient materials in civil engineering and architecture

E3. Energy efficient buildings control and standardization

E4. Building structures and environment

F. CONTROL OF SUSTAINABLE SYSTEMS AND ELECTRICAL ENERGY CONSUMPTION

F1. Control and monitoring of sustainable systems

F2. Management and control of power quality

F3. Planning of efficient electrical energy consumption

F4. Energy systems sustainability assessment

F5. Legal framework in energy efficiency and sustainable development

F6. Socioeconomic and ecological aspects of sustainable development

G. UP TO DATE AND CURRENT TECHNOLOGIES AND MATERIALS

G1. Application of new materials in the renewable energy field

G2. New ways for utilization of nanomaterials

G3. Biofuels – production, properties and usage

G4. New technologies for biomass

G5. Landfills, storage and utilization of waste

H. ENVIRONMENTAL IMPACTS

H1. Greenhouse gas emission reduction policies

H2. Working towards an energy efficient environment

H3. Global warming and climate change

H4. Environmental sustainability

H5. Global environmental change and ecosystems management

● Participants

- Undergraduate students
- Postgraduate students
- Academic members
- Companies whose work is related to the conference theme

● Official languages of the conference

- Macedonian
- English

● Instructions for participants

- Participants that are currently in their undergraduate studies have to write their papers under a mentorship of a professor.
- For participants that are currently in their postgraduate studies, having a professor as a coauthor of their paper is recommended.
- To take part in the conference, authors have to apply by sending a completely filled application form including an abstract on the following e-mail: skeeor@feit.ukim.edu.mk until **31.08.2017** The application form can be found on the official website of the conference <http://skeeor.feit.ukim.edu.mk>
- Abstracts should be written according to the instructions posted on the official website of the conference <http://skeeor.feit.ukim.edu.mk>
- The deadline for submission of the full paper text is **30.10.2017**

● Papers review

Papers will be reviewed by the Scientific Board. If necessary, meetings between conference participants and the Scientific Board will be organized for paper correction.

● Conference proceedings

The papers that are written according to the official instructions and sent until the deadline, if accepted by the Scientific Board will be published in the conference proceedings.

● Location

- Faculty of Electrical Engineering and Information Technologies, Skopje, Republic of Macedonia.

● Information about the organizers

- SCEESD – Student Conference “Energy Efficiency and Sustainable Development”
skeeor@feit.ukim.edu.mk
- FEEIT – Faculty of Electrical Engineering and Information Technologies
Rugjer Boshkovik bb, 1000 Skopje, Republic of Macedonia
www.feit.ukim.edu.mk
- IEEE Republic of Macedonia Section
Rugjer Boshkovik bb, 1000 Skopje, Republic of Macedonia
https://webinabox.vtools.ieee.org/wibp_home/index/R80077
- MAKO CIGRE
Rugjer Boshkovik bb, 1000 Skopje, Republic of Macedonia
<https://mako-cigre.mk/>

● Important dates

31.08.2017 –Deadline for sending an application

30.10.2017 – Deadline for submission of the full paper text

23.11.2017 – 25.11.2017 – Conference