Editorial Board

JOURNAL OF SUSTAINABLE ENERGY EDITOR IN CHIEF

Ioan FELEA

University of Oradea, Department of Energy Engineering, ifelea@uoradea.ro

EDITORS

Cornel ANTAL University of Oradea cantal@uoradea.ro

Constantin BARBULESCU
Politehnica University of Timisoara
constantin.barbulescu@upt.ro

Gianfranco CHICCO Politecnico de Torino , Italia gianfranco.chicco@polito.it

George DARIE Politehnica University of Bucharest george.darie@energy.pub.ro

Fiodor ERCHAN State Agricultural University, Moldova terhan@mail.ru

Mihai GAVRILAS "Gheorghe Asachi" Technical University of lasi mgavril@tuiasi.ro

Marcel ISTRATE
"Gheorghe Asachi" Technical University of lasi mistrate@tuiasi.ro

> Ferenc KALMÁR University of Debrecen fkalmar@mfk.unideb.hu

Paul Mihai MIRCEA University of Craiova mmircea@elth.ucv.ro

Calin MUNTEANU Technical University of Cluj-Napoca Calin.Munteanu@ethm.utcluj.ro

Valentin NAVRAPESCU Politehnica University of Bucharest valentin.navrapescu@upb.ro

Laurentiu POPPER Perfect Service SA director@perfect-service.ro

David RIVKIN Ohalo College, Katzrin Israel david.rivkin@SustainableMethods.org

> Calin SECUI University of Oradea csecui@uoradea.ro

Doru VATAU Politehnica University of Timisoara doru.vatau@upt.ro Badea GABRIELA University of Oradea gbadea@uoradea.ro

Gabriel BENDEA University of Oradea gbendea@uoradea.ro

Roberto CIPOLLONE University of L'Aquila roberto.cipollone1@tin.it

Simona DZIŢAC University of Oradea, simona.dzitac@gmail.com

Mircea EREMIA Politehnica University of Bucharest eremia1@yahoo.com

> Cristina HORA University of Oradea chora@uoradea.ro

Mihai JADANEANT Politehnica University of Timisoara mihai.jadaneant@upt.ro

Stefan KILYENI Politehnica University of Timisoara stefan.kilyeni@et.upt.ro

> Ion MIRCEA University of Craiova imircea@elth.ucv.ro

Florin MUNTEANU "Gheorghe Asachi" Technical University of lasi flmunt@tuiasi.ro

> Florin POPENTIU University of Oradea popentiu@imm.dtu.dk

Victorita RADULESCU Politehnica University of Bucharest vradul7@yahoo.com

> Marcel ROSCA University of Oradea mrosca@uoradea.ro

Victor VAIDA University of Oradea vaida@termodeva.ro

EXECUTIVE STAFF

Executive Editor& IDB Responsable

Calin Secui & Vasile Moldovan University of Oradea csecui@uoradea.ro / moldovan@uoradea.ro

Editorial Activities
Eva BARLA
University of Oradea
ebarla@uoradea.ro

Editorial secretary Daniel ALBUŢ-DANA University of Oradea dalbut@uoradea.ro

Papers Traceability Responsable Nicolae RANCOV University of Oradea nrancov@uoradea.ro The Journal of Sustainable Energy (JSE) had its first appearance under this name in 2010. The history of JSE is the following: is formed in 2010 by transforming of 1993-2009 Analele Universitatii din Oradea. Fascicula de Energetica, 1224-1261. Which superseded in part (1991-1992): Analele Universitatii din Oradea. Fascicula Electrotehnica si Energetica (1221-1311); Which superseded in part (1976-1990): Lucrari Stiintifice - Institutul de Invatamant Superior Oradea. Seria A, Stiinte Tehnice, Matematica, Fizica, Chimie, Geografie (0254-8593); Both of which superseded in part (1969-1970): Lucrari Stiintifice - Institutul Pedagogic Oradea. Seria A (1220-2916); Which superseded in part (1967-1968): Lucrari Stiintifice - Institutul Pedagogic Oradea (1220-2266).

The Journal of Sustainable Energy (JSE) publishes original contributions in the field of the following topics:

- System reability and power service quality
- Generation of electric power
- Energy policy and economics (financial and customer markets, regulatory and financial issues)
- Energy development (solar power, renewable energy, waste-to-energy systems)
- Energy systems operation
- Energy efficiency, reducing consumption for conservation of energy
- Energy sustainability as related to energy and power production, distribution and usage
- Energy infrastructure issues (power plant safety, security of infrastructure network)
- Waste management and environmental issues
- Buildings and transportations energetic
- Urban community energy
- Management and engineering economics in energy

The articles quality increases with every issue. Apart from its improved technical contents, a special care is given to its structure. The guidelines for preparing and submitting an article were modified and developed in order to meet high quality standards requirements. With every passing issue the peer-review process was developed too, being now a double-blinded peer-review process.

Authors who wish to submit a manuscript to the Journal of Sustainable Energy (JSE) are kindly asked to send their manuscripts as DOC and PDF format to jseoradea@yahoo.com, according to the formatting instructions. Once the manuscript is submitted, the authors will shortly receive a feedback regarding the status of their submission. As the review process is completed, the author will be informed about the reviewers' comments and the changes the paper should suffer in order to satisfy the journal quality requirements.

Journal of Sustainable Energy JSE is covered/indexed/abstracted in:

- DOAJ Directory of Open Access Journals
- EBSCO Publishing EBSCOhost Online Research Databases
- Google Scholar
- Index Copernicus
- BASE Bielefeld Academic Search Engine
- Higher Education Journals in Engineering
- Open Academic Journals Index
- ResearchBib
- Cosmos Impact Factor
- Engineering village (Pending)
- DRJI (Pending)
- CiteFactor (Pending)
- Science Library Index (Pending)

Publishing House name/address:

University of Oradea Editing House

Universitatea din Oradea, Universitatii Str., No. 1, 410087, Oradea, Bihor, Romania

- ISSN: 2067-5534 (print)
- Tel.: 00-40-259-408 (232) / (171)
- Fax: 00-40-259-408406
- Place of publishing: Oradea, Romania
- Year of the foundation of publication in domain of power engineering: 1976
- Releasing frequency: 2 / year
- Language: English

CONTENTS

SYSTEMS' RELIABILITY AND QUALITY OF ENERGY SERVICES
DYNAMIC BAYESIAN NETWORK FOR WEATHER FORECAST AND EVALUATION OF RENEWABLE RESOURCES AVAILABILITY CIOBANU A., MUNTEANU F., NEMEŞ C, ADOCHIŢEI M
RENEWABLE RESOURCES OF ENERGY. SUSTAINABLE ENERGY TECHNOLOGIES
GLOBAL SOLAR RADIATION IN TWO TUNISIAN CITIES: COMPARISON OF PREDICTION AND MEASURED DATA AMMAR M
EVOLUTION OF POWER SYSTEMS. PERFORMANT POWER SYSTEMS
ABOUT LARGE INTEGRATION OF SMALL RESIDENTIAL PHOTOVOLTAIC ENERGY CELLS INTO SEN OCTAVIAN C., SILVIU D
SCENARIOS OF REGIONAL POWER SYSTEM EXPANSION FROM SOUTHERN OF BIHOR COUNTY BASED ON THE EXPLOITATION OF RENEWABLE ENERGY SOURCES IAS G. I., LOLEA M. S., MINDA A. A
MARKET AND STOCK-MARKET OF POWER. MANAGEMENT OF POWER SYSTEMS
THE COSTS ASSESSMENT ON THE SELECTION OF THE THERMAL INSULATION THICKNESS FOR NETWORKS THERMAL PIPELINES DINU R.C., POPESCU D., STAN – IVAN F. E
THE INFLUENCE OF REGULATORY CHANGES IN REACTIVE ENERGY ON ENERGY EFFICIENCY IN ELECTRICAL DISTRIBUTION NETWORKS AND QUALITY OF THE SERVICE