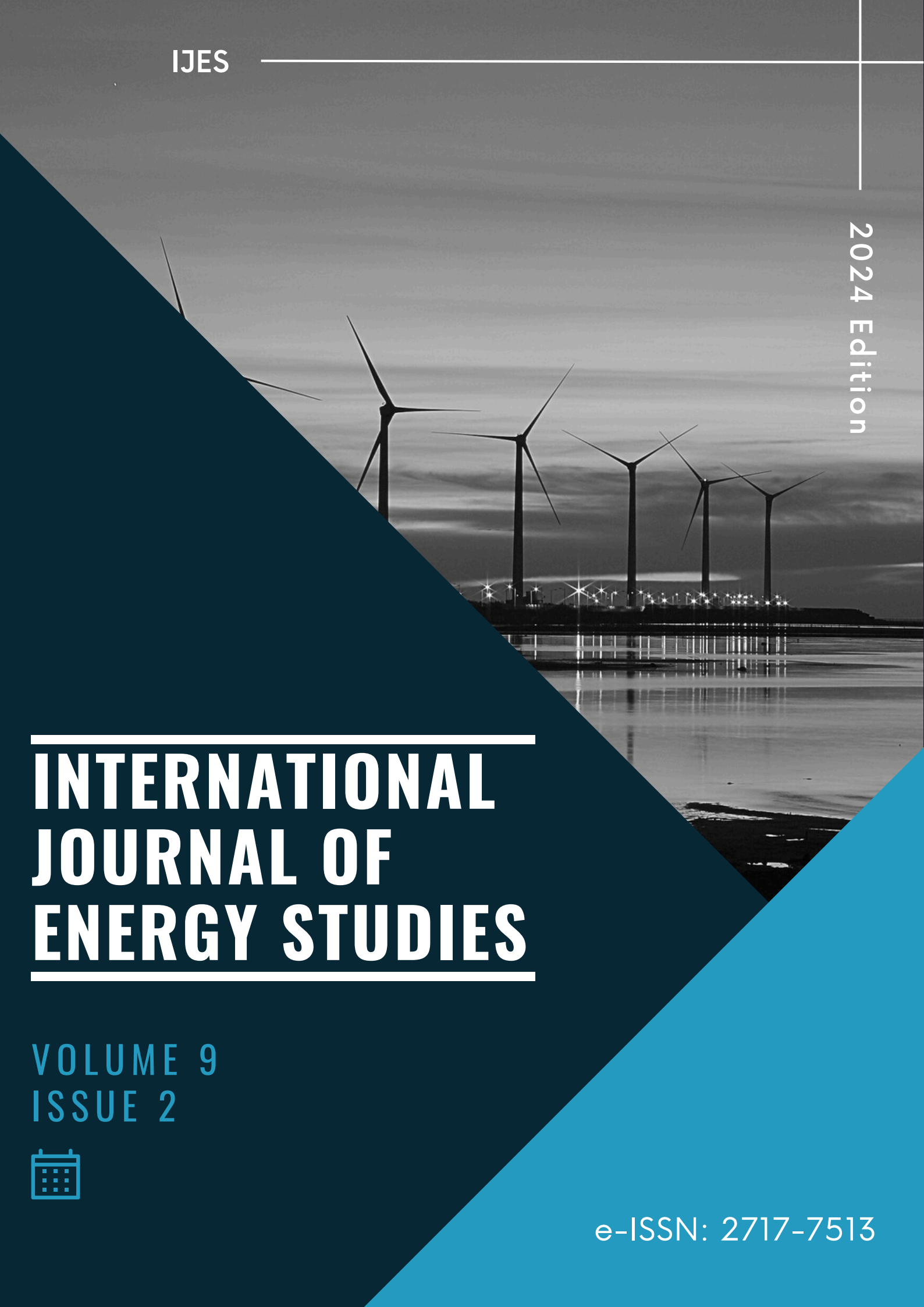


IJES

2024 Edition



INTERNATIONAL JOURNAL OF ENERGY STUDIES

VOLUME 9
ISSUE 2



e-ISSN: 2717-7513

International Journal of Energy Studies (*IJES*)

IJES is published four times a year

e-ISSN:2717-7513

homepage: <https://dergipark.org.tr/en/pub/ijes>

Publisher: Türkiye Enerji Stratejileri ve Politikaları Araştırma Merkezi (TESPAM)

2024, Volume 9, Issue 2

Contents

Machine learning predictions and optimization for thermal energy storage in cylindrical encapsulated phase change material / Pages:199-218 / Burak İzgi (Research Article)

Comparative analysis of Kalina and ORC cycles in renewable energy systems: exergo-environmental assessment and cost calculations with carbon emissions / Pages:219-237 / Ahmet Elbir (Research Article)

Effect of alternative biogas-methane fuels use on performance and emissions in turbojet engine / Pages:239-253 / Osman Kumuk (Research Article)

Should the European Union prioritize renewable energy or tackle energy poverty? / Pages:255-277 / Yagmur Saglam, Mehmet Samet Erdem (Research Article)

Performance and thrust analysis of J4/Biodiesel mixtures at different ratios in a high bypass ratio gas turbine engine / Pages:279-290 / Gamze Polatlı, Şule Çitil, Mustafa Akbudak, Buğrahan Alabaş (Research Article)

Determining the most useful renewable energy alternative for Turkey by combining MAUT and TAOV methods / Pages:291-308 / Burhan Aydın, Özlem Ege Oruç (Research Article)

The impact of the establishment of the cross-border balancing market on the integration of RES into the regional electricity grid / Pages:309-329 / Mehmet Bulut (Research Article)

Assessment of small-scale wind turbines for domestic use in different situations / Pages:331-346 / Abdallah Albast, Nezihe Yıldırım (Research Article)

Utilization of project support for renewable energy financing in public buildings: A solar carport feasibility example / Pages:347-367 / Serkan Sezen (Research Article)

Editorial Team

Editor-in-Chief

Prof. Dr. Mustafa İlbař - Gazi University – Türkiye

Co-Editor

Assoc. Prof. Dr. Serhat Karyeyen - Gazi University – Türkiye

Associate Editors

Prof. Dr. Bora Timurkutluk - Niğde Ömer Halisdemir University - Türkiye

Prof. Dr. Nesrin Kayatař Demir - Erciyes University - Türkiye

Prof. Dr. Bilge Albayrak Çeper - Erciyes University - Türkiye

Prof. Dr. Selahattin Çelik - Ankara Yıldırım Beyazıt University - Türkiye

Assoc. Prof. Dr. Harun Yılmaz - Erzincan Binali Yıldırım University – Türkiye

Language Editor

Fatma Ülkü Kavruk - Gazi University – Türkiye

Editorial Advisory Board

Prof. Dr. Volkan Ş. Ediger - Kadir Has University - Türkiye

Prof. Dr. Ashwani K. Gupta - University of Maryland, College Park - Maryland, USA

Prof. Dr. Oktay Çetinkaya - Middle East Technical University - Türkiye

Prof. Dr. Shouyin (Ian) Yang - National Formosa University - Taiwan

Prof. Dr. İlker Yılmaz - Gazi University - Türkiye

Prof. Dr. Hakan Serhad Soyhan - Sakarya University - Türkiye

Prof. Dr. Yüksel Kaplan - Niğde Ömer Halisdemir University - Türkiye

Prof. Dr. İskender Gökalp - CNRS - France

Prof. Dr. Ahmet Yozgatlıgil - Middle East Technical University - Türkiye

Prof. Dr. Veli Çelik - Ankara Yıldırım Beyazıt University – Türkiye

Prof. Dr. Nafiz Kahraman - Erciyes University - Türkiye

Prof. Dr. Yueh-Heng Li - National Cheng Kung University – Taiwan

Assoc. Prof. Dr. Murat Sahin - National Defence University - Türkiye

Assoc. Prof. Dr. Abdulkadir Bektaş – Directorate of Climate Change - Türkiye

Dr. Paramvir Singh - Indian Institute of Technology Mumbai – India

Technical Editors

Dr. Berre Kümük – Iskenderun Technical University - Türkiye

Res. Assist. Büřra Arslan - Gazi University - Türkiye

Res. Assist. Fethi Mustafa Çimen - Gazi University - Türkiye