River Publishers

Energy Sustainability and Efficiency: Global Perspectives and Innovative Approaches

Editors:

Momir Tabakovic, University of Applied Sciences Technikum Wien, Austria

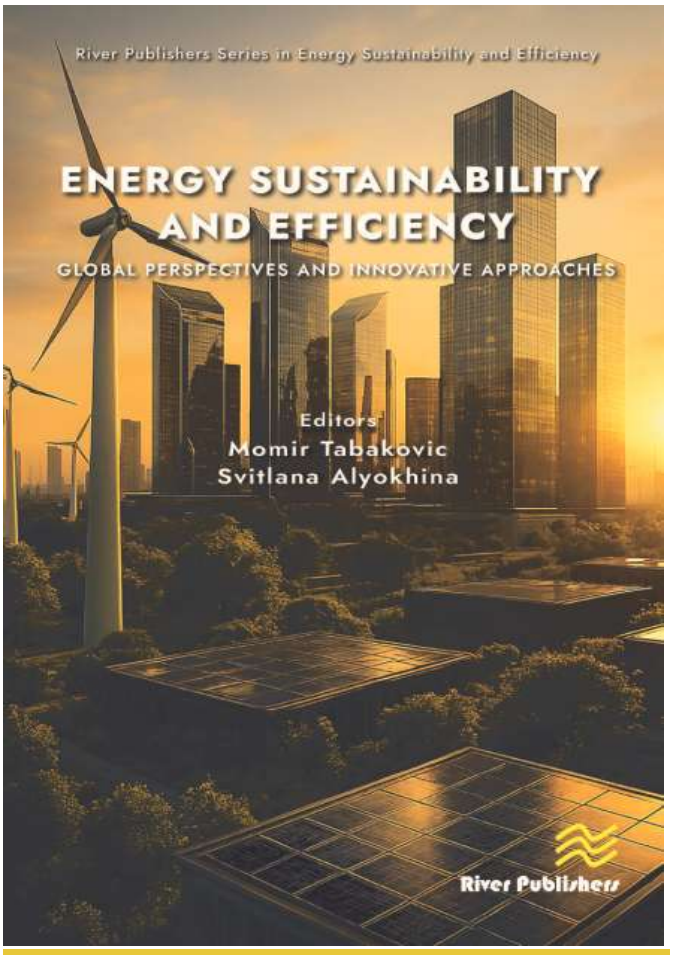
Svitlana Alyokhina, University of Applied Sciences Technikum Wien, Austria

This is a comprehensive overview of the latest advancements and strategies for achieving a sustainable energy future. It offers a multidisciplinary perspective on energy sustainability, integrating research on community-driven energy transitions, digital innovation, automation, and urban climate adaptation. The book examines the role of positive energy districts in facilitating just energy transitions, the realities of energy communities in Austria, and Romania's ambitious urban decarbonization initiatives in Re?i?a.

The book also highlights the transformative potential of digital services in enhancing energy efficiency, the development of automation systems for resource conservation, and the innovative concept of climate fitness for resilient urban environments. Featuring case studies from Europe and beyond, it offers a multidisciplinary perspective on energy sustainability, bridging technological advancements with social, economic, and policy-driven approaches. This is a seminal text for researchers, policymakers, urban planners, and professionals working toward a greener and more equitable future.

TABLE OF CONTENTS

- Community Engagement for PED Development and Just Energy Transition: A Research Protocol
- Revolution or Illusion? Austrian Visions and Realities of Energy Communities
- Resita, Romania - A Case Study in Urban Decarbonization and Climate Adaptation Through SECAP
- Digital Services for Energy Transition: Enhancing Quality of Life and Delaying Electricity Grid Retrofitting
- The General Theory of Automation Systems with Energy and Resource Saving Functions
- Climate Fitness: Decoding Urban Green Dynamics



River Publishers Series in Energy Sustainability and Efficiency

ISBN: 9788743806875
e-ISBN: 9788743806837
Available From: July 2026
Price: $ 130.00

KEYWORDS:
Energy, energy transition, energy efficiency, sustainability, climate neutrality, positive energy district, energy communities, community engagement, urban decarbonization, climate adaptation, electricity grid

www.riverpublishers.com
marketing@riverpublishers.com