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Section

B: Energy and Environment

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**Section Editor-in-Chief:**

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## Section Information

The “Energy and Environment” Section covers all topics at the interface of energy and the environment that are of interest to the science and engineering communities. Special focus is given to progress in research and applications associated with the development and evaluation of technological and administrative pathways that minimize the environmental impacts of energy life cycles.

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## ADVANCED TECHNOLOGIES FOR ENVIRONMENTALLY FRIENDLY ENERGY SYSTEMS

Low Carbon Energy Production and Use Technologies

Sustainable Consumption of Energy Resources

Carbon Capture, Storage and Utilization (CCSU) Technologies

Carbon Capture, Storage and Utilization (CCSU) Technology Assessments

Synthetic Fuels and Chemicals: Assessment of Fuel or Chemical Production enabled by Solar and/or Wind Energy

Emissions Reduction and Waste Management in Energy Production and Storage Technologies

## ENVIRONMENTAL IMPACTS OF ENERGY PRODUCTION

Climate Change Model Prediction and Uncertainties

Stratospheric Ozone Depletion Assessment and Mitigation

Acid Rain Assessment and Mitigation

Potential Accidental Environmental Impacts in Fossil Energy Cycles

Hidden (External) Cost of Energy

## SUSTAINABILITY OF RENEWABLE ENERGIES

Rainfall Patterns and Hydropower

Wind and Ocean Wave Seasonal Variation

Solar Variability and Solutions

Dual Use of Land and Water

End-of-Life Management and Recycling

## ENVIRONMENTAL SUSTAINABILITY ASSESSMENTS

Life-Cycle Analysis of New Energy Production and Storage Technologies

Life-Cycle Analysis of CCSU Pathways

Energy Return on Energy Impact (EROI) and Carbon Footprint of New Technologies

Global Carbon Budget Assessments

Green Rating Systems

Integrated Life Cycle and Environmental, Health and Safety Risk Analyses

Governance, Legislation, and Environmental Policy for Energy Production

# SECTIONS

## B: Energy and Environment

## WATER-ENERGY-ENVIRONMENT NEXUS

Water Desalination Powered by Renewable Energies

Treatment, Distribution, and End Use in Energy Productions

Reliability and Resilience of Energy and Water Systems

Alternative Water Sources –Reuse/Desalination/ Decontamination Potential

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