



# Handbook of Clean Energy Systems, 6 Volume Set

*Jinyue Yan*

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The *Handbook of Clean Energy Systems* brings together an international team of experts to present a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of literature sources, the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems. The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth, and environmental, social and economic impacts are also addressed.

### Topics covered include:

**Volume 1 - Renewable Energy:** Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy.

**Volume 2 - Clean Energy Conversion Technologies:** Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration.

**Volume 3 - Mitigation Technologies:** Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy.

**Volume 4 - Intelligent Energy Systems:** Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern Electrical Systems; Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement.

**Volume 5 - Energy Storage:** Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems.

**Volume 6 - Sustainability of Energy Systems:** Sustainability Indicators, Evaluation Criteria, and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction.

### Key features:

- Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources.
- In addition to renewable energy systems, HCES also covers processes for the efficient and clean

conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems.

Environmental, social and economic impacts of energy systems are also addressed in depth.

- Published in full colour throughout.
- Fully indexed with cross referencing within and between all six volumes.
- Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields.
- Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription.

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