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River Publishers Series in Energy Sustainability and Efficiency

Green Energy and Sustainable Ecosystem: Concepts, Principles and Best Practices

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Description:

Electronic Devices usage has increased considerably in the last two decades. System configurations are continuously requiring upgradation with existing systems being obsolete in a matter of 2-3 years. Inefficient disposal of obsolete IT devices generates huge e-Waste harming the environment leading to various issues like Climate change, higher CO2 Emissions. Primary Environmental concerns is lack of effective waste management including e-waste disposal mechanism.

Green Computing is the complete effective management of design, manufacture, use, and disposal involving as little environmental impact as possible. This book intends to explore new and innovative ways of conserving Energy, Effective e-waste management and Renewable Energy Sources to harness and nurture a sustainable ecosystem.

Aims and Scope of the Edited Book:

- Advocating and promoting Renewable Energy and Green Computing.
- Highlight Innovative principles and practices using effective e-waste management and disposal.
- Promote use of cutting edge technologies in Green Computing.
- Explore Sustainable models using concept of Reduce, Reuse and Recycle.
- Discover alternative sources and mechanisms like Battery driven vehicles and Electric Vehicles for minimizing Environmental hazards.
- Highlight successful case studies in Alternative sources of Energy.
- Explore Futuristic trends in Renewable Energy and Green Computing

Technical topics discussed in the book include:

- Clean and Green Energy: Current Scenario
- Environmental Impact: Global and Regional Assessment
- Challenges and Opportunities for Sustainable Development
- Electronic Waste Management Practices.
- Status and Progress of e-Waste treatment Systems.
- e-Waste Supply Chain: Challenges and Opportunities for Sustainable Management.
- Renewable Energy Resources
- Sustainable Renewable Energy Models
- Green Transportation Models
- Green Audit and Management
- Artificial Intelligence (AI) Studies in Renewable Energy Systems
- Machine/Deep Learning for Renewable Energy Applications

Keywords: Green Computing, Sustainable Development, Renewable Energy, Green Audit, e-Waste, Carbon Footprints, Green Cities, Green Villages