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Sustainable Energy Management

Description:

While the last few decades have witnessed incredible leaps forward in the technology of energy production, technological innovation can only be as transformative as its implementation and management allows. The burgeoning fields of renewable, efficient and sustainable energy have moved past experimentation toward realization, necessitating the transition to more sustainable energy management practices. Energy Management is a collective term for all the systematic practices to minimize and control both the quantity and cost of energy used in providing a service. This new book reports from the forefront of the energy struggle in the developing world, offering a guide to implementation of sustainable energy management in practice. The authors provide new paradigms for measuring energy sustainability, pragmatic methods for applying renewable resources and efficiency improvements, and unique insights on managing risk in power production facilities. The book highlights the possible financial and practical impacts of these activities, as well as the methods of their calculation. The authors' guidelines for planning, analyzing, developing, and optimizing sustainable energy production projects provide vital information for the nations, corporations, and engineering firms that must apply exciting new energy technology in the real world.

- Shows engineering managers and project developers how to transition smoothly to sustainable practices that can save up to 25% in energy costs!

- Features case studies from around the world, explaining the whys and hows of successes and failures in China, India, Brazil, the US and Europe

- Covers a broad spectrum of energy development issues from planning through realization, emphasizing efficiency, scale-up of renewables and risk mitigation

- Includes software on a companion website to make calculating efficiency gains quick and simple

Contents:

ENERGY AND SUSTAINABLE DEVELOPMENT Definition of sustainable development Basic principles of sustainable development Energy sustainability as criteria of sustainable development Dimensions of energy sustainability Basic concept of energy sustainability Basic problems on energy sustainability Legislation

ENERGY MANAGEMENT
PLANNING Traditional concept of energy management Sustainable energy management approach Strategic analysis of energetic sector Strategic objectives of sustainable energy management CASE STUDY
INDIA

ENERGY MANAGEMENT
IMPLEMENTATION Basic precognition of implementation Creation of organizational structure and culture Transformation of objectives and resource allocation Implementation process management Control and revision of the strategy CASE STUDY
USA

TECHNIQUES AND TOOLS FOR STRATEGIC IMPLEMENTATION Basic techniques and tools for strategic implementation Traditional approach Systems approach Ecomanagement approach Total quality management approach Method of Life cycle analysis Method of gap analysis

ENERGY MANAGEMENT
CONTROLLING Basics of strategic controlling Controlling of financial effects of implementation Controlling of non-financial effects of implementation CASE STUDY
SERBIA

EXPLOITATION OF RENEWABLE ENERGY SOURCES Solar energy Biomass energy Wind energy Geothermal energy Hydroenergy Management of renewable energy exploitation CASE STUDY
BRASIL

ENERGY EFFICIENCY Definition of energy efficiency Basic principles of energy efficiency Improvement of

energy efficiency CASE STUDY
CHINA

RISK MANAGEMENT IN ENERGY FACILITIES Definition of risk and risk management in energy facilities Basic steps of risk management in energy facilities Risk assessment in energy facilities Reaction on risk planning Reaction on risk implementation CASE STUDY
AUSTRIA

LEVEL OF SUSTAINABLE ENERGETIC DEVELOPMENT Indicators of sustainable development Indicators of sustainable energetic development Economic vs energetic development Determination of sustainable development level Determination of sustainable development level by indicators of development Determination of sustainable energy development level CASE STUDY
SOUTHEASTERN EUROPE REGION

GLOSSARY REFERENCES

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