

Power Saver For Industries Commercial Establishments

Report number 6 of the Evaluation of Energy Use in Great Britain.

Issued 1980- in 2 v.: v. 1, ; v. 2, Financial and statistical report for municipal and cooperative distributors of TVA power.

Presents the results of the third biennial National Critical Technologies Review. Includes information about the state of development in each technology area and about the U.S. competitive position relative to the worldwide leading edge technology developments.

ICT Innovations for Sustainability is an investigation of how information and communication technology can contribute to sustainable development. It presents clear definitions of sustainability, suggesting conceptual frameworks for the positive and negative effects of ICT on sustainable development. It reviews methods of assessing the direct and indirect impact of ICT systems on energy and materials demand, and examines the results of such assessments. In addition, it investigates ICT-based approaches to supporting sustainable patterns of production and consumption, analyzing them at various levels of abstraction – from end-user devices, Internet infrastructure, user behavior, and social practices to macro-economic indicators. Combining approaches from Computer Science, Information Systems, Human-Computer Interaction, Economics, and Environmental Sciences, the book presents a new, holistic perspective on ICT for Sustainability (ICT4S). It is an indispensable resource for anyone working in the area of ICT for Energy Efficiency, Life Cycle Assessment of ICT, Green IT, Green Information Systems, Environmental Informatics, Energy Informatics, Sustainable HCI, or Computational Sustainability.

Includes all works deriving from DOE, other related government-sponsored information and foreign nonnuclear information.

While researchers work overtime to create new technologies and methods of providing energy, it is critical that modern industry makes the most efficient use of the energy that is currently available. The Energy Management and Conservation Handbook offers expert guidance on the planning and design of “green” technologies. It focuses on management strategies for better utilization of energy in buildings and industry as well as ways of improving energy efficiency at the end use. Renowned authorities from around the globe share insights and modern points of view on a broad spectrum of topics. Summarizing proven energy efficient technologies in the building sector, the book includes examples that highlight the cost-effectiveness of some of these technologies. It introduces basic methods for designing and sizing cost-effective systems and determining whether it is economically efficient to invest in specific energy efficiency or renewable energy projects. It provides guidance for computing measures of economic performance for relatively simple investment choices and the fundamentals for dealing with complex investment decisions. The book also describes energy audit producers commonly used to improve the energy efficiency of residential and commercial buildings as well as industrial facilities. After developing the basics of HVAC control, the book explores operational needs for successfully maintained operations. It describes the essentials of control systems for heating, ventilating, and air conditioning of buildings designed for energy conserving operation. The book also defines demand-side management, covers its role in integrated resource planning, and delineates the main elements of its programs. The book demonstrates these concepts with case studies of successful demand-side management programs. These features and more provide the tools necessary to improve energy management leading to higher energy efficiencies.

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