

# Clean Coal Technology Demonstration Program: Program Update 2001

Includes Power Plant Improvement Initiative Projects

As of September 2001



U.S. Department of Energy Assistant Secretary for Fossil Energy Washington, DC 20585

July 2002

# Clean Coal Technology Demonstration Program Program Update 2001

United States. Congress. Senate.
Committee on Finance

#### **Clean Coal Technology Demonstration Program Program Update 2001:**

Clean Coal Technology Demonstration Program, 2002 Annual report on the Clean Coal Technology Demonstration Program CCT Program The report address the role of the CCT Program implementation funding and costs accomplishments project descriptions legislative history program history environmental aspects and project contacts. The project descriptions describe the technology and provides a brief summary of the demonstration results Also includes Power Plant Improvement Clean Coal Technology Demonstration Program Gene H. Knight, 2002-10-01 Presents the Clean **Initiative Projects** Coal Technology Demonstration Program CCT accomplishments the Power Plant Initiative PPII program as well PPII was established to further improve the efficiency reliability environmental performance of coal based power generation The DoE is applying the basic principles of the CCT Program to PPII including forging the cost shared industry gov t partnerships needed to effectively demonstrate promising new clean coal technologies bring them into the marketplace The CCT Program has yielded clean coal technologies that are capable of meeting existing emerging environmental regulations competing in a changing electric power marketplace Charts tables photos Monthly Catalog of United States Government Publications Monthly Catalogue, United States Public Documents ,2005 Clean Coal Engineering Technology Bruce G. Miller, 2010-11-15 Concern over the effects of airborne pollution green house gases and the impact of global warming has become a worldwide issue that transcends international boundaries politics and social responsibility The 2nd Edition of Coal Energy Systems Clean Coal Technology describes a new generation of energy processes that sharply reduce air emissions and other pollutants from coal burning power plants Coal is the dirtiest of all fossil fuels When burned it produces emissions that contribute to global warming create acid rain and pollute water With all of the interest and research surrounding nuclear energy hydropower and biofuels many think that coal is finally on its way out However coal generates half of the electricity in the United States and throughout the world today It will likely continue to do so as long as it s cheap and plentiful Source Energy Information Administration Coal provides stability in price and availability will continue to be a major source of electricity generation will be the major source of hydrogen for the coming hydrogen economy and has the potential to become an important source of liquid fuels Conservation and renewable sustainable energy are important in the overall energy picture but will play a lesser role in helping us satisfy our energy demands today Dramatically updated to meet the needs of an ever changing energy market Coal Energy Systems 2nd Edition is a single source covering policy and the engineering involved in implementing that policy The book addresses many coal related subjects of interest ranging from the chemistry of coal and the future engineering anatomy of a coal fired plant to the cutting edge clean coal technologies being researched and utilized today A 50% update over the first edition this new book contains new chapters on processes such as CO2 capture and sequestration Integrated Gasification Combined Cycle IGCC systems Pulverized Coal Power Plants and Carbon Emission Trading Existing materials on worldwide coal distribution and quantities technical and policy issues

regarding the use of coal technologies used and under development for utilizing coal to produce heat electricity and chemicals with low environmental impact vision for utilizing coal well into the 21st century and the security coal presents Clean Liquids and Gaseous Fuels from Coal for Electric Power Integrated Gasification Combined Cycle IGCC systems Pulverized Coal Power Plants Advanced Coal Based Power Plants Fluidized Bed Combustion Technology CO2 capture and Coal Energy Systems Bruce G. Miller, 2005 A Volume in the Sustainable World Series Richard C Dorf Series Editor Coal is currently a major energy source in the United States as well as throughout the world especially among many developing countries and will continue to be so for many years Fossil fuels will continue to be the dominant energy source for fueling the United States economy with coal playing a major role for decades Coal provides stability in price and availability will continue to be a major source of electricity generation will be the major source of hydrogen for the coming hydrogen economy and has the potential to become an important source of liquid fuels Conservation and renewable sustainable energy are important in the overall energy picture but will play a lesser role in helping us satisfy our energy demands This book is a single source covering many coal related subjects of interest ranging from explaining what coal is where it is distributed and quantities it can be found in throughout the world technical and policy issues regarding the use of coal technologies used and under development for utilizing coal to produce heat electricity and chemicals with low environmental impact vision for utilizing coal well into the 21st century and the security coal presents Key Features A single source reference for the energy professional policy maker and those interested in learning about the value of coal as an energy source that covers many aspects of coal and its use Provides a comprehensive discussion of technical and policy issues regarding the use of coal Presents coal s increasing role in providing energy security to the United States and other countries Gives an up to date review of current energy usage environmental issues clean coal technologies under development and policy factors affecting the use of coal Addresses misconceptions of coal usage by illustrating that it can be used in an environmentally friendly manner Related Titles Technology Humans and Society Toward a Sustainable World Richard C Dorf 2001 0 12 221090 5 Wind Power in View Energy Landscapes in a Crowded World Martin J Pasqualetti Paul Gipe Robert W Righter 2002 0 12 546334 0 **Combustion Engineering Issues for Solid Fuel Systems** Bruce G. Miller, David Tillman, 2008-07-02 Design construct and utilize fuel systems using this comprehensive reference work Combustion Engineering Issues for Solid Fuel Systems combines modeling policy regulation and fuel properties with cutting edge breakthroughs in solid fuel combustion for electricity generation and industrial applications This book moves beyond theory to provide readers with real life experiences and tips for addressing the various technical operational and regulatory issues that are associated with the use of fuels With the latest information on CFD modeling and emission control technologies Combustion Engineering Issues for Solid Fuel Systems is the book practicing engineers as well as managers and policy makers have been waiting for Provides the latest information on CFD modeling and emission control technologies

Comprehensive coverage of combustion systems and fuel types Addresses policy and regulatory concerns at a technical level Tackles various technical and operational issues *Iournal of the Senate of the United States of America United States.* Multipollutant emission control technology options for coalfired power plants prepared Congress. Senate, 2002 by E. Stratos Tavoulareas and Wojciech Jozewicz. Department of the Interior and Related Agencies Appropriations for 2001: Justification of the budget estimates, United States Forest Service, Department of **Energy** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies, 2000 **Department of the Interior and Related Agencies Appropriations for 2001** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies, 2000 Advanced Air and Noise Pollution Control Lawrence K. Wang, Norman C. **Administrative Notes** .2000 Pereira, Yung-Tse Hung, 2007-11-03 Leading pollution control educators and practicing professionals describe how various combinations of different cutting edge process systems can be arranged to solve air noise and thermal pollution problems Each chapter discusses in detail a variety of process combinations along with technical and economic evaluations and presents explanations of the principles behind the designs as well as numerous variant designs useful to practicing engineers The emphasis throughout is on developing the necessary engineering solutions from fundamental principles of chemistry physics and mathematics. The authors also include extensive references cost data design methods guidance on the installation and operation of various air pollution control process equipment and systems and Best Available Technologies BAT for air thermal and noise pollution control The Role of Tax Incentives in Addressing Rural Energy Needs and Conservation United States. Congress. Senate. Committee on Finance, 2001 U.S. Geological Survey Circular ,1984 Coal--a Complex Natural Resource Stanley P. Schweinfurth, 2003 **Congressional Record** United States. Congress, 2000 Budget Hearing on FY 1997 Request for DOE, NOAA, and EPA's Office of Research and Development (ORD); and Safe Drinking Water Act R&D Reauthorization United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment, 1997 Journal of the Air & Waste Management Association ,2006 The Budget of the United States Government United States. Office of Management and Budget, 2002

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