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Proceedings of the Fifth Annual Clean Coal Technology Conference

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Co-sponsors:
U.S. Department of Energy
Center for Energy & Economic Development
National Mining Association
Electric Power Research Institute
Council of Industrial Boiler Owners

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Foreword

The Fifth Annual Clean Coal Technology Conference focused on presenting strategies and approaches that will enable clean coal technologies to resolve the competing, interrelated demands for power, economic viability, and environmental constraints associated with the use of coal in the post-2000 era.

The program addressed the dynamic changes that will result from utility competition and industry restructuring, and the evolution of markets abroad. Current projections for electricity highlight the preferential role that electric power will have in accomplishing the long-range goals of most nations. Increased demands can be met by utilizing coal in technologies that achieve environmental goals while keeping the cost-per-unit of energy competitive. Results from projects in the DOE Clean Coal Technology Demonstration Program confirm that technology is the pathway to achieving these goals.

The industry/government partnership, cemented over the past 10 years, is focused on moving the clean coal technologies into the domestic and international marketplaces. The Fifth Annual Clean Coal Technology Conference provided a forum to discuss these benchmark issues and the essential role and need for these technologies in the post-2000 era.

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Opening Plenary Session

Powering the Next Millennium: Challenges in Meeting the Goal

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KEYNOTE ADDRESS: VISION AND CHALLENGE TO ENSURE THAT CCTs CONTRIBUTE IN THE NEXT MILLENNIUM

Anderson, Girard F.
TECO Energy

ISSUE 1: INTERNATIONAL MARKETS FOR CCTs

Ferriter, John P.
International Energy Agency

ISSUE 2: ROLE OF CCTs IN THE EVOLVING DOMESTIC ELECTRICITY MARKET

Gordon, Kenneth
National Economic Research Associates, Inc.

LUNCHEON ADDRESS: ISSUE 4: CLEAN COAL TECHNOLOGY DEPLOYMENT: FROM TODAY INTO THE NEXT MILLENNIUM

Papay, Lawrence T., Trocki, Linda K. and McKinsey, Ronald R.
Bechtel Technology and Consulting

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Panel Session 1

Issue 1: International Markets for CCTs

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REGIONAL TRENDS IN THE TAKE-UP OF CLEAN COAL TECHNOLOGIES

Wootten, John M.

Peabody Holding Company, Inc.

INDUSTRY PERSPECTIVES ON INCREASING THE EFFICIENCY OF COAL-FIRED POWER GENERATION

Torrens, Ian M.

Shell Coal International

Stenzel, William C.

SEPRIL Services

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Panel Session 2

Issue 2: Role of CCTs in the Evolving Domestic Electricity Market

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CCT'S IN A DEREGULATED ENVIRONMENT: A PRODUCER'S PERSPECTIVE

Edmonds, Robert F., Jr. and Fayssoux, John O.

Duke Power Company

MARKET FOR NEW COAL POWERPLANT TECHNOLOGIES IN THE U.S.; 1997 ANNUAL ENERGY OUTLOOK RESULTS

Hutzler, Mary J.

U.S. Department of Energy

THE ROLE OF CLEAN COAL TECHNOLOGIES IN A DEREGULATED RURAL UTILITY MARKET

Neal, John W.

National Rural Electric Cooperative Association

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DOMESTIC ENVIRONMENTAL REQUIREMENTS, NEW AND PROJECTED

McLean, Brian

U.S. Environmental Protection Agency

LEGISLATIVE ISSUES RELATING TO CCTs

Reidy, Maura

Representative to the Interior Appropriations Subcommittee

Office of Representative Sidney Yates, U.S. House of Representatives

Wainman, Barbara

Assistant to the Chairman, Interior Appropriations Subcommittee

U.S. House of Representatives

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Issue 4: CCT Deployment From Today Into the Next Millennium

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A UTILITY PERSPECTIVE ON THE DEPLOYMENT OF CCT'S INTO THE NEXT MILLENNIUM

Mudd, Michael J.

American Electric Power Energy Services

A CHICKEN IN EVERY POT A NEW BOILER IN EVERY POWERPLANT A NEW POWERPLANT AT EVERY INDUSTRIAL SITE

Bessette, Robert D.

Council of Industrial Boiler Owners

IN ORDER TO BE SUCCESSFUL, TECHNOLOGY MUST ADAPT TO THE CHANGES IN THE MARKETPLACE

Houck, James C.

Texaco, Inc.

CONSOL'S PERSPECTIVE ON CCT DEPLOYMENT

Burke, F. P. and Statnick, R. M.

CONSOL Inc.

STATE REPRESENTATIVE PERSPECTIVE

Moreland, Terri

State of Illinois Washington Office

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Closing Plenary Session

Powering the Next Millennium: CCT Answers the Challenge

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COMPLETING THE CCT MISSION: THE CHALLENGE OF CHANGE

Monk, James R.
Illinois Energy Association

ISSUE 1: INTERNATIONAL MARKETS: SEIZING THE OPPORTUNITY

Heyes, Alan
UK Department of Trade and Industry

ISSUE 2: DOMESTIC ELECTRICITY MARKET PERSPECTIVE FOR CCTs

Grahame, Tom
U.S. Department of Energy

ISSUE 3: ENVIRONMENTAL ISSUES AFFECTING COAL AND CCTs INTO THE NEXT MILLENNIUM

Hausker, Karl
Center for Strategic and International Studies

ISSUE 4: ADVANCED COAL TECHNOLOGY: IT WILL MAKE A DIFFERENCE!

Eminger, Randy
The Center for Energy & Economic Development

FEATURED SPEAKER

The Honorable Ralph Regula
U.S. House of Representatives

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Technical Session I

Advanced Coal Process Systems

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RECENT EXPERIENCE WITH THE CQE™

Harrison, Clark D. and Kehoe, David B.
CQ Inc.

O'Connor, David C.
Electric Power Research Institute

Stallard, G. Scott
Black & Veatch

SELF-SCRUBBING COAL-AN INTEGRATED APPROACH TO CLEAN AIR

Harrison, K. E., PE
Custom Coals Corporation

ROSEBUD SYNCOAL PARTNERSHIP SYNCOAL® DEMONSTRATION TECHNOLOGY UPDATE

Sheldon, Ray W., P.E.
Rosebud SynCoal Partnership

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Advanced Industrial Systems

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AN UPDATE ON BLAST FURNACE GRANULAR COAL INJECTION

Hill, D. G., Strayer, T. J. and Bouman, R. W.

Bethlehem Steel Corporation

CLEAN POWER FROM INTEGRATED COAL-ORE REDUCTION

Wintrell Reginald

Geneva Steel

Miller, Robert N., Harbison, Edmund J. and LeFevre, Mark O.

Air Products

England, Kevin S.

Centerior Energy

ROLE OF THE LIQUIDS FROM COAL PROCESS IN THE WORLD ENERGY PICTURE

Frederick, James P. and Knottnerus, Brent

ENCOAL Corporation

LUNCHEON ADDRESS: CHANGING FACE OF INTERNATIONAL POWER GENERATION

Lindsay, Ian

World Energy Council

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Technical Session III

Advanced Cleanup Systems

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THE CLEAN COAL TECHNOLOGY PROGRAM 10 MW_e DEMONSTRATION OF GAS SUSPENSION ABSORPTION FOR FLUE GAS DESULFURIZATION

Hsu, Frank E. and Hedenhag, Jorgen G.
AirPol, Inc.

Marchant, Sharon K., Ph.D., and Pukanic, George W., Ph.D.
U.S. Department of Energy

Norwood, Verrill M., Ph.D. and Burnett, Thomas A.
Tennessee Valley Authority

SMALL, MODULAR, LOW-COST COAL-FIRED POWER PLANTS FOR THE INTERNATIONAL MARKET

Zauderer, B., Frain, B. and Borck, B.
Coal Tech Corp.

Baldwin, A. L.
U. S. Department of Energy

CHIYODA THOROUGHbred CT-121 CLEAN COAL PROJECT AT GEORGIA POWER'S PLANT YATES: PHASE II RESULTS

Burford, David P.
Southern Company Services, Inc.

THE HEALY CLEAN COAL PROJECT AN OVERVIEW

Olson, John B., P.E. and McCrohan, Dennis V., P.E.
Alaska Industrial Development and Export Authority

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COAL REBURNING FOR COST-EFFECTIVE NO_x COMPLIANCE

Folsom, B. A., Sommer, T. M., Engelhardt, D. A. and Moyeda, D. K
Energy and Environmental Research Corporation

Rock, R. G.
Eastman Kodak Company

O'Dea, D. T.
New York State Electric and Gas

Hunsicker, Scott
Fuller Power Corporation

Watts, J. U.
U.S. Department of Energy

THE NOXSO CLEAN COAL PROJECT

Black, James B., Woods Mark C, Friedrich, John J. and Browning, John P.
NOXSO Corporation

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INTEGRATED DRY NO_x/SO₂ EMISSIONS CONTROL SYSTEM PERFORMANCE SUMMARY

Hunt, Terry
Public Service Company of Colorado

Muzio, Lawrence J. and Smith, Randall
Fossil Energy Research Corporation

Jones, Dale
BTU Services

Hebb, Jerry L.
U.S. Department of Energy

Stallings, Jeff
Electric Power Research Institute

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Advanced Power Generation Systems

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WABASH RIVER COAL GASIFICATION REPOWERING PROJECT-FIRST YEAR OPERATION EXPERIENCE

Troxclair, E. J.
Destec Energy, Inc.

Stultz, Jack
PSI Energy, Inc.

McINTOSH UNIT 4 PCFB DEMONSTRATION PROJECT

Dodd, Alfred M.
Lakeland Electric & Water

Dryden, Richard J.
Foster Wheeler Development Corporation

Morehead, Harry T.
Westinghouse Electric Corporation

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