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# Publications Directory 1995

October 1996

**EIA**

Energy Information Administration

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## HOW TO OBTAIN EIA PRODUCTS AND SERVICES

For further information on any of the following services, or for answers to energy information questions, please contact EIA's National Energy Information Center:

National Energy Information Center (NEIC)	(202) 586-8800
Energy Information Administration	(202) 586-0727 (fax)
Forrestal Building, Room 1F-048	TTY: (202) 586-1181
Washington, DC 20585	E-mail: <a href="mailto:infoctr@eia.doe.gov">infoctr@eia.doe.gov</a>

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### Electronic Products and Services

EIA's Internet Site Services offer nearly all EIA publications. Users can view and download selected pages or entire reports, search for information, download EIA data and analysis applications, and find out about new EIA information products and services.

World Wide Web: <http://www.eia.doe.gov>  
Gopher: <gopher://gopher.eia.doe.gov>  
FTP: <ftp://ftp.eia.doe.gov>

EIA also offers a listserve service for EIA press releases and other short documents. Sign up on the EIA World Wide Web site.

EIA's CD-ROM, *Energy InfoDisc*, contains most EIA publications, several databases, and an energy forecasting model. The *Energy InfoDisc*, produced quarterly, is available for a fee from STAT-USA, Department of Commerce, 1-800-STAT-USA.

The Comprehensive Oil and Gas Information Source (COGIS), a bulletin board service, contains data files from most of EIA's oil- and gas-related reports. It is available for a fee from STAT-USA, on 1-800-STAT-USA.

EIA's Electronic Publishing System (EPUB) bulletin board contains data files, directories, and forecasts from most EIA reports. It can be accessed free of charge by dialing (202) 586-2557.

Many of EIA's data files and modeling programs are available for sale on diskette, tape, or cartridge, through either the National Technical Information Service or the Office of Scientific and Technical Information, Department of Energy. Contact NEIC for information on specific products, sources, and media, and ordering instructions.

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### Printed Publications

EIA directories are available free of charge from NEIC. Recent periodicals and one-time reports are available from the Government Printing Office. Older reports are available from the National Technical Information Service:

Superintendent of Documents	National Technical Information Service
U.S. Government Printing Office	U.S. Department of Commerce
P.O. Box 371954	Springfield, VA 22161
Pittsburgh, PA 15250-7954	5285 Port Royal Road
(202) 512-1800; (202)-512-2250 (fax)	(703) 487-4650; (703) 321-8547 (fax)



# **EIA Publications Directory 1995**

October 1996

**Energy Information Administration**  
National Energy Information Center  
U.S. Department of Energy  
Washington, DC 20585

**MASTER**

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# Preface

Enacted in 1977, the Department of Energy (DOE) Organization Act established the Energy Information Administration (EIA) as the Department's independent statistical and analytical agency, with a mandate to collect and publish data and prepare analyses on energy production, consumption, prices, resources, and projections of energy supply and demand. This edition of the *EIA Publications Directory* contains titles and abstracts of periodicals and one-time reports produced by EIA from January through December 1995.

The body of the *Directory* contains citations and abstracts arranged by broad subject categories: metadata, coal, oil and gas, nuclear, electricity, renewable energy/alternative fuels, multifuel, end-use consumption, models, and forecasts.

Questions concerning publications in the *Directory* should be directed to the National Energy Information Center (NEIC) at (202) 586-8800.

Comments on the *Directory* itself should be directed to Karen Freedman at (202) 586-9254.





# How to Use the *EIA Publications Directory*

**Availability.** This directory contains abstracts and ordering information for individual issues of semiannual, annual, biennial, and triennial Energy Information Administration (EIA) periodicals, analysis reports, Service Reports, and model documentations. (Service Reports are prepared by EIA upon special request and may be based on assumptions specified by the requestor.) Most publications are available from the National Technical Information Service (NTIS), U.S. Department of Commerce. Order numbers, indicated by a "DE" prefix, and price codes are given. If there is no order number beginning with "DE," use the DOE/EIA number or PB number when placing your order. The price codes are interpreted on page 62. The NTIS telephone number and an order form are on page 67.

Periodicals produced more frequently than semiannually -- quarterlies, monthlies, and

weeklies -- are listed as single titles. Individual issues are not listed, and no ordering information is given. If the periodical is current, it is available by subscription from the U.S. Government Printing Office (GPO).

Some recent individual issues are also available from GPO. Most recent issues of current and discontinued periodicals are available from NTIS. For ordering information regarding these periodicals, call NTIS directly. Annual and one-time reports which are available from GPO are indicated with a GPO stock number and price. A GPO order form can be found on page 65.

**Abstracts.** Publication abstracts are arranged by abstract number within subject categories as listed in the table of contents. The principal elements of a publication abstract entry are illustrated below.

## ABSTRACT

Abstract  
number

Title

### **55 *Annual Energy Review 1994***

The *Annual Energy Review* presents historical energy data summaries (total U.S. consumption, imports, and exports) as well as complete data coverage of the principal energy commodities. Price, inventory, and resource reserve information are also provided by fuel. Statistics on some renewable energy sources are presented. Most of the data series are from 1949 forward. Key international data series for major energy sources and activities are also included. Publication began with the 1982 edition.

Report number

Frequency

NTIS ordering information

DOE/EIA-0384(94) Annual July 1995 416 pp. NTIS Stock Number: DE95015665 NTIS Price Code: A18 GPO Stock Number: 061-003-00919-1 GPO Price: \$25.00

GPO ordering information

**Indices.** The directory has three indices: the subject index, the report number index, and the title index. Each index entry contains an abstract number which refers the reader to the publication abstract.

**Subject Index.** The subject index is arranged alphabetically by specific energy terminology. The numbers that follow each entry refer the reader to the related publication abstract.

**Report Number Index.** The report number index is arranged alpha-numerically by the DOE/EIA number. The index begins with the report number; followed by the title; date; number of pages; NTIS stock number, if available; the GPO stock number and price, if available; and the abstract number.

**Title Index.** The title index is arranged alphabetically and includes the same information as in the report number index.

## SUBJECT INDEX

Ethanol

production 27, 30

production capacity 25

stocks 27, 30

Federal buildings

energy consumption 70

## REPORT NUMBER INDEX

**DOE/EIA-0603(95) *Renewable Energy Annual 1995***

Annual December 1995 192 pp. NTIS Stock Number: DE96004505 NTIS Price Code: A08 GPO Stock Number: 061-003-00950-6 GPO Price: \$13.00 54

## TITLE INDEX

***Country Analysis Briefs: 1994***

DOE/EIA-0595 One-time May 1995 112 pp. NTIS Stock Number: DE95011289 NTIS Price Code: A06 GPO Stock Number: 061-003-00906-9 GPO Price: \$6.50 56

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# Abstracts

## Metadata

### 1 *Annual Report to Congress 1994*

The *Annual Report to Congress 1994* discusses accomplishments of the Energy Information Administration (EIA) and describes the functions and responsibilities of EIA. Active models and data collection surveys are described in the appendices along with a listing of publications and periodicals published during the year. During 1994, EIA's main goal was to assure its data and analyses were of the highest quality, relevant to its customers' needs, and easily accessible. Efforts to ensure product relevance and quality consisted of conducting new and modified surveys, issuing new information products, revising existing products to include data and analyses desired by EIA's customers, and eliminating products that no longer meet customers' needs.

DOE/EIA-0173(94) Annual April 1995 92 pp.  
NTIS Stock Number: DE95011240 NTIS Price  
Code: A05

### 2 *Directory of Energy Information Administration Models 1995*

This directory revises and updates the *Directory of Energy Information Administration Models 1994*. The Disruption Impact Simulator (DIS) Model in use by EIA has also been included. The directory, which is published annually, contains descriptions about each model, including the title, acronym, purpose, followed by more detailed information on characteristics, uses, and requirements. Sources for additional information are identified. Model descriptions have been updated according to revised documentation approved during the past year. Included in this directory are 37 EIA models active as of February 1, 1995. Models that run

on personal computers are identified by "PC" as part of the acronym. The models are divided into two groups and listed in alphabetical order within those groups. The first group lists those models that are part of the National Energy Modeling System (NEMS). The second group lists all other EIA models that are not part of NEMS.

DOE/EIA-0293(95) Annual July 1995 96 pp.  
NTIS Stock Number: DE95015354 NTIS Price  
Code: A05

### 3 *EIA Directory of Electronic Products*

The *EIA Directory of Electronic Products* lists EIA machine-readable data files and computer models. The data files and models are made available to the public on magnetic tapes. In addition, selected data files/models are available on diskette for IBM-compatible personal computers. Selected data files and publications of EIA are accessible online and via CD-ROM technology. EIA and the U.S. Department of Commerce offer online, electronic bulletin board access to EIA files, and the Department of Commerce also distributes a CD-ROM which contains selected EIA publications. For each product listed in this directory, a detailed abstract is provided which describes the data published.

DOE/EIA-0569 Quarterly Available: NEIC

### 4 *EIA New Releases*

The latest available EIA publications and upcoming reports are listed and described in this bimonthly publication. Availability and ordering information are provided. News about EIA and other items of interest to users of EIA

publications are also included. Beginning in 1996, this newsletter will be published quarterly. Publication began October 1979.

DOE/EIA-0204 Bimonthly Available: NEIC

### **5 *EIA Publications Directory 1994***

This directory contains abstracts and ordering information for EIA publications released in the above time period. The abstracts are arranged by broad subject category such as coal, petroleum, natural gas, and electric power. A comprehensive subject index, a title index, and a report number index are included. Each entry gives the title, report number, publication frequency, date, number of pages, and ordering information. Publication began with the 1979 edition.

DOE/EIA-0149(94) Annual July 1995 68 pp.  
NTIS Stock Number: DE95015681 NTIS Price Code: A04

### **6 *Energy Education Resources***

This publication is the result of a study undertaken by the National Energy Information Center (NEIC), a service of EIA, to provide its customers with a list of generally available free or low-cost energy-related educational materials for students and educators. This list is updated once a year. The 1995 edition contains several new features. Most organizations have added their fax number and electronic mail (E-Mail) address to the list. A table of contents and a subject index were added to better assist our readers. Each entry is followed by a number, which is referenced in the subject index in the back of this book.

DOE/EIA-0546(94) Annual February 1995 96 pp. NTIS Stock Number: DE95008208 NTIS Price Code: A05

### **7 *Energy Information Directory 1995***

This document was developed to assist the NEIC staff, as well as other Department of Energy (DOE) staff, in directing inquiries to the proper offices within DOE, other Federal agencies, or energy-related trade associations. The directory lists most Government offices and trade associations that are involved in energy matters. It does not include those DOE offices which do not deal with the public or public information. For the purposes of this publication, each entry has been given a numeric identification symbol. The index found in the back of this publication uses these identification numbers to refer the reader to relevant entries.

DOE/EIA-0205(95) Annual October 1995 100 pp. NTIS Stock Number: DE96001798 NTIS Price Code: A05

## **Coal**

### **8 *Coal Data: A Reference***

This report summarizes basic information on the mining and use of coal. The prior edition of *Coal Data: A Reference* was published in 1991. The present edition contains updated data as well as expanded reviews and additional information. Added to the text are discussions of coal quality, coal prices, unions, and strikes. The appendix has been expanded to provide statistics on a variety of additional topics, such as: trends in coal production and royalties from Federal and Indian coal leases, hours worked and earnings for coal mine employment, railroad coal shipments and revenues, waterborne coal traffic, coal export loading terminals, utility coal combustion byproducts, and trace elements in coal.

DOE/EIA-0064(93) Biennial February 1995 136 pp. NTIS Stock Number: DE95007649 NTIS Price Code: A07 GPO Stock Number: 061-003-00901-8 GPO Price: \$9.00

## **9 Coal Industry Annual 1994**

*Coal Industry Annual 1994* is the second annual report on the coal industry replacing the publication *Coal Production* (DOE/EIA-0118), which was discontinued in 1993. This report presents additional tables and expanded versions of tables previously presented in *Coal Production*, including production, number of mines, productivity, employment, productive capacity, and recoverable reserves. This report also presents data on coal consumption, coal distribution, coal stocks, coal prices, coal quality, and emissions for a wide audience including Congress, Federal and State agencies, the coal industry, and the general public. In addition, Appendix A contains a compilation of coal statistics for the major coal-producing States. This report does not include coal consumption data for nonutility power producers who are not in the manufacturing, agriculture, mining, construction, or commercial sectors. This consumption is estimated to be 15 million short tons in 1994.

DOE/EIA-0584(94) Annual October 1995 282 pp. NTIS Stock Number: DE96002672 NTIS Price Code: A12 GPO Stock Number: 061-003-00936-1 GPO Price: \$17.00

## **10 Energy Policy Act Transportation Rate Study: Interim Report on Coal Transportation**

This is the second report on coal distribution and transportation rates presented to the U.S. Congress by the Secretary of Energy. Published in October 1995, the report is mandated by Title XIII, Section 1340, "Establishment of Data Base and Study of Transportation Rates," of the Energy Policy Act of 1992 (Public Law 102-486). The first report, *Energy Policy Act Transportation Rate Study: Availability of Data and Studies*, was submitted to Congress in October 1993. The current report presents an

interim analysis of coal transportation rates and distribution patterns using the database development pursuant to the congressional mandate. A final report is due to Congress in October 2000.

DOE/EIA-0597 One-time October 1995 148 pp. NTIS Stock Number: DE96009983 NTIS Price Code: A07 GPO Stock Number: 061-003-00933-6 GPO Price: \$10.00

## **11 Longwall Mining**

This report describes longwall mining and compares it with other underground mining methods. Using data from EIA and private sector surveys, the report describes major changes in the geological, technological, and operating characteristics of longwall mining over the past decade. Most important, this report shows how these changes led to dramatic improvements in longwall mining productivity. For readers interested in the history of longwall mining and greater detail on recent developments affecting longwall mining, the report includes a bibliography.

DOE/EIA-TR-0588 One-time March 1995 72 pp. NTIS Stock Number: DE95008794 NTIS Price Code: A04 GPO Stock Number: 061-003-00903-4 GPO Price: \$5.00

## **12 Quarterly Coal Report**

This report provides information about U.S. coal production, distribution, exports, imports, receipts, prices, consumption, and stocks. Coke production, consumption, distribution, imports, and exports data are also provided. Beginning with the first quarter (1992), *Quarterly Coal Report* includes distribution data formerly published in *Coal Distribution* and an expansion of the Receipts Section, which provides additional data on the quality of coal receipts at electric utility plants. Each issue presents

detailed data for the most recent quarter and aggregated quarterly historical data. Appendix A displays, from 1980 forward, detailed quarterly historical data of imported coal received at the electric utility plants. Appendix B gives selected quarterly tables converted to metric tons. Explanatory notes are presented in Appendix C. A glossary is also included. Publication began with 1982 data.

DOE/EIA-0121 Quarterly GPO Subscription  
List ID: QCR GPO Subscription Price: \$26.00

### **13 *Weekly Coal Production***

National, regional, and State-level data on the production of bituminous coal and lignite and on the production of Pennsylvania anthracite are reported for each of the two most recent weeks and a corresponding week in the previous year. Also shown is current year-to-date production, year-to-date production for a corresponding period in the previous year, production for the most recent 52-week period, and production for a corresponding period in the previous year. Also reported is the number of railroad cars loaded in each time period. Highlights are presented in the Summary. Publication began May 1980.

DOE/EIA-0218 Weekly (Printed version discontinued with issue 96-18)

### **14 *Energy Policy Act Transportation Study: Interim Report on Natural Gas Flows and Rates***

This report is the second in a series mandated by Title XIII, Section 1340, "Establishment of Data Base and Study of Transportation Rates," of the Energy Policy Act of 1992 (Public Law 102-

486). The first report submitted to Congress in October 1993, *Energy Policy Act Transportation Study: Availability of Data and Studies*, summarizes data and studies that could be used to address the impact of legislative and regulatory actions on natural gas transportation rates and flow patterns. The current report presents an interim analysis of natural gas transportation rates and distribution patterns for the period 1988 through 1994. A third and final report addressing the transportation rates and flows through 1997 is due to Congress in October 2000.

DOE/EIA-0602 One-time November 1995 156 pp. NTIS Stock Number: DE96002829 NTIS Price Code: A07 GPO Stock Number: 061-003-00939-5 GPO Price: \$11.00

## **Oil and Gas**

### **15 *Fuel Oil and Kerosene Sales 1994***

This publication contains the 1994 survey results of the "Annual Fuel Oil and Kerosene Sales Report" (Form EIA-821). This is the sixth year that the survey data have appeared in a separate publication. Prior to the 1989 report, the statistics appeared in the *Petroleum Marketing Annual* for reference year 1988 and the *Petroleum Marketing Monthly* for reference years 1984 through 1987. The 1994 edition marks the 11th annual presentation of the results of the ongoing "Annual Fuel Oil and Kerosene Sales Report" survey.

DOE/EIA-0535(94) Annual September 1995 60 pp. NTIS Stock Number: DE96001071 NTIS Price Code: A04 GPO Stock Number: 061-003-00928-0 GPO Price: \$4.25



## **16 *International Petroleum Statistics Report***

This report presents data on international oil production, consumption, imports, exports, and stocks. Also included is an oil market chronology of significant recent events in world petroleum markets. Section 1 contains time series data on world oil production and oil consumption and stocks in the Organization for Economic Cooperation and Development (OECD) and its member nations. This section contains annual data beginning in 1985 and monthly data for the most recent two years. Section 2 presents an oil supply/consumption balance for the market economies as well as China and the former Soviet Union. This balance is presented in quarterly intervals for the most recent two years, and annual averages for the most recent five years. Section 3 presents data on oil imports by OECD countries from selected members of the Organization of Petroleum Exporting Countries (OPEC). This section contains annual data for the last calendar year, quarterly data for the last two quarters, and monthly data for the most recent 12 months. Section 4 contains historical oil statistics similar to those found in Sections 1 through 3. Data in this section are presented annually back to 1983, and often back to 1970, on a country-by-country basis. Publication of this report began in 1989.

DOE/EIA-0520 Monthly GPO Subscription  
List ID: IPSR GPO Subscription Price: \$52.00

## **17 *Natural Gas 1995: Issues and Trends***

*Natural Gas 1995: Issues and Trends* provides a summary of the latest data and information relating to the natural gas industry, including prices, production, transmission, consumption, and financial aspects of the industry. The report consists of six chapters and one appendix. Each chapter is designed to be self contained, resulting

in some repetition of definitions and other background material. Each chapter is composed of a one-page introduction followed by several two-page sections of figures and text examining a particular topic within the subject area of the chapter. Because of this format, endnotes appear at the end of each chapter.

DOE/EIA-0560(95) Annual October 1995 108  
pp. NTIS Stock Number: DE96002671 NTIS  
Price Code: A05 GPO Stock Number: 061-003-  
00937-9 GPO Price: \$6.50

## **18 *Natural Gas Annual 1993 Supplement: Company Profiles***

This report presents a detailed profile of selected companies. The companies appearing in the *Natural Gas Annual 1993 Supplement: Company Profiles* are major interstate natural gas pipeline companies, large distribution companies, or combination companies with both pipeline and distribution operations. The report contains profiles of 45 corporate families. The profiles describe briefly each company, where it operates, and selected issues that the company faces.

DOE/EIA-0131(93)/S Annual February 1995  
208 pp. NTIS Stock Number: DE95007128  
NTIS Price Code: A08 GPO Stock Number:  
061-003-00897-6 GPO Price: \$13.00

## **19 *Natural Gas Annual 1994, Volume 1***

The *Natural Gas Annual 1994, Volume 1* provides information on the supply and disposition of natural gas to a wide audience including industry, consumers, Federal and State agencies, and educational institutions. The 1994 data are presented in a sequence that follows natural gas (including supplemental supplies) from its production to its end use. This information is followed by tables summarizing

natural gas supply and disposition from 1990 to 1994 for each Census division and State. Annual historical data are shown at the national level.

DOE/EIA-0131(94)/1 Annual November 1995  
260 pp. NTIS Stock Number: DE96002848  
NTIS Price Code: A11 GPO Stock Number:  
061-003-00943-3 GPO Price: \$16.00

## **20 *Natural Gas Monthly***

Current data on natural and supplemental gas production, supply, consumption, disposition, interstate pipeline activities, storage, imports, exports, and prices in the United States are presented. Production and storage data are given by State; consumption and price data are given by State and sector; company-specific data on interstate pipelines are also presented. Explanatory notes, a discussion of data sources, and a glossary are included. Feature articles on current topics are published periodically, and a report on imports/exports is published annually. Publication began November 1982.

DOE/EIA-0130 Monthly GPO Subscription  
List ID: NSG GPO Subscription Price: \$77.00

## **21 *Oil and Gas Development in the United States in the Early 1990's: An Expanded Role for Independent Producers***

The increasing dependence of U.S. oil and gas development on the typically much smaller nonmajor companies raises a number of issues, which are analyzed in this report. To identify areas of growth of nonmajor oil and gas producers, in the context of the entire U.S. industry, this analysis first distinguishes companies as major versus nonmajor petroleum companies. The analysis draws heavily on data from EIA's Financial Reporting System, as well

as relying on data from EIA's oil and gas reserves report series.

DOE/EIA-0600 One-time September 1995 36  
pp. NTIS Stock Number: DE96000764 NTIS  
Price Code: A03 GPO Stock Number: 061-003-  
00929-8 GPO Price: \$2.75

## **22 *Oil and Gas Field Code Master List 1995***

The *Oil and Gas Field Code Master List 1995* is the fourteenth annual listing of all identified oil and gas fields in the United States. It is updated with field information collected through October 1995. The purpose of this publication is to provide unique, standardized codes for identification of domestic fields. Use of these field codes fosters consistency of field identification by government and industry.

DOE/EIA-0370(95) Annual December 1995  
340 pp. NTIS Stock Number: DE96004112  
NTIS Price Code: A15 GPO Stock Number:  
061-003-00944-1 GPO Price: \$21.00

## **23 *Petroleum Marketing Annual 1994***

This report provides information and statistical data on a variety of crude oils and refined petroleum products. The publication presents statistics on crude oil costs and refined petroleum products sales for use by industry, government, private sector analysts, educational institutions, and consumers. Data on crude oil include the domestic first purchase price, the free-on-board and landed cost of imported crude oil, and refiners' acquisition cost of crude oil. Refined petroleum product sales data include motor gasoline, distillates, residuals, aviation fuels, kerosene, and propane.

DOE/EIA-0487(94) Annual August 1995 508  
pp. NTIS Stock Number: DE95017183 NTIS

Price Code: A21 GPO Stock Number: 061-003-00923-9 GPO Price: \$32.00

## ***24 Petroleum Marketing Monthly***

Petroleum product marketing data are reported for the United States, Petroleum Administration for Defense (PAD) districts, and selected States, depending on the petroleum product, for the current month, the previous month, and the corresponding month of the previous year. Some data are also summarized for each year from 1978 forward and for each month from the previous 2 years through the current month. Shown for 16 individual petroleum products are sales prices, sales volumes, and first sales for consumption. Data are given by type of seller (major refiner, other refiner/gas plant operator, and reseller) and by type of sale (sales to end-users and sales for resale). Crude oil price tables present data from 1978 through the current month on refiner acquisition cost; first purchase price by State; and free on board/landed cost of purchases for U.S. importation from selected countries, by API gravity, and for selected crude streams. Feature articles on current topics appear periodically. Standard errors and survey response percentages are also presented. Explanatory notes, a glossary, and a product guide to tables are also included. Publication began May 1983.

DOE/EIA-0380 Monthly GPO Subscription  
List ID: PMM GPO Subscription Price: \$84.00

## ***25 Petroleum Supply Annual 1994, Volume 1***

The *Petroleum Supply Annual* consists of two volumes. Volume 1 contains annual supply, disposition, and stock data beginning in 1973. Monthly data are given for the most recent 3 years. Supply and disposition are reported for crude oil, natural gas liquids and liquefied refinery gases (LRG's), individual finished

petroleum products and other liquids. The movements of crude oil and petroleum products between Petroleum Administration for Defense (PAD) districts are detailed, as well as imports and exports of crude oil and petroleum products by country, and the production of heavy oils by sulfur content.

DOE/EIA-0340(94)/1 Annual May 1995 192 pp. NTIS Stock Number: DE95012803 NTIS Price Code: A09 GPO Stock Number: 061-003-00910-7 GPO Price: \$14.00

## ***26 Petroleum Supply Annual 1994, Volume 2***

The *Petroleum Supply Annual* consists of two volumes. Volume 2 contains supply and disposition data for each month of the current year. Supply and disposition are reported for crude oil, natural gas plant liquids/LRG's, other liquids, and individual finished petroleum products. Movements of crude oil and petroleum products between PAD districts by pipeline, tanker, and barge are detailed, as well as imports and exports of crude oil and petroleum products by country, and the imports of residual fuel oil by sulfur content.

DOE/EIA-0340(94)/2 Annual June 1995 608 pp. NTIS Stock Number: DE95013380 NTIS Price Code: A25 GPO Stock Number: 061-003-00913-1 GPO Price: \$39.00

## ***27 Petroleum Supply Monthly***

Contains summary data on the supply and disposition of crude oil and petroleum products in the United States and major U.S. geographic regions. The data series describe monthly production, imports and exports, inter-Petroleum Administration for Defense (PAD) district movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of

Columbia). The reporting universe includes petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD district transporters, importers, and major inventory holders of petroleum products and crude oil. Data presented are divided into two sections: (1) "Summary Statistics" and (2) "Detailed Statistics." The tables and figures in the "Summary Statistics" section present a time series of selected petroleum data on a U.S. level. Tables in the "Detailed Statistics" section present statistics for the current month available as well as year-to-date. Publication began March 1982.

DOE/EIA-0109 Monthly GPO Subscription  
List ID: PETS GPO Subscription Price: \$83.00

## ***28 U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves 1994 Annual Report***

This report presents estimates of proved reserves of crude oil, natural gas, and natural gas liquids as of December 31, 1994, as well as production volumes for the United States and selected States and State subdivisions for the year 1994. Estimates are presented for the following categories of natural gas: total gas (wet after lease separation), nonassociated gas and associated-dissolved gas (which are the two major types of net natural gas), and total dry gas (wet gas adjusted for the removal of liquids at natural gas processing plants). In addition, reserve estimates for two types of natural gas liquids, lease condensate and natural gas plant liquids, are presented. Also included is information on indicated additional crude oil reserves and crude oil, natural gas, and lease condensate reserves in nonproducing reservoirs. A discussion of notable oil and gas exploration and development activities during 1994 is provided.

DOE/EIA-0216(94) Annual September 1995  
164 pp. NTIS Stock Number: DE96001659  
NTIS Price Code: A07 GPO Stock Number:  
061-003-00931-0 GPO Price: \$11.00

## ***29 The Value of Underground Storage in Today's Natural Gas Industry***

This report provides the latest information on natural gas storage activities. The contribution of storage to the overall efficiency of the production and transmission segments of the industry is well known. However, traditional ideas about storage management have changed and new uses for storage have developed as the result of both market pressures and regulatory changes. This report analyzes these important changes in the industry.

DOE/EIA-0591 One-time March 1995 100 pp.  
NTIS Stock Number: DE95008769 NTIS Price  
Code: A05 GPO Stock Number: 061-003-  
00902-6 GPO Price: \$6.00

## ***30 Weekly Petroleum Status Report***

Information on the petroleum supply situation in the United States is presented for the current week and most recent month. Some monthly data go back 2 or 3 years. Shown are the U.S. petroleum balance sheet, refinery activity, stocks, imports, products supplied, and prices. Data cover: refinery inputs, utilization, and production; stocks of crude oil and major products (gasoline, distillate fuel oil, residual fuel oil, etc.) by Petroleum Administration for Defense District; refiner acquisition cost of crude oil; retail selling prices for motor gasoline and residential heating oil; world crude oil prices; and spot market product prices. Strategic Petroleum Reserve data are shown when appropriate. Appendix A presents explanatory notes and Appendix B presents the results of Form EIA-819, "Monthly Oxygenate Telephone Report." A glossary is also provided. Publication began April 1979.

DOE/EIA-0208 Weekly GPO Subscription List  
ID: EWPSR GPO Subscription Price: \$72.00

### **31 *Winter Fuels Report***

This weekly report contains monthly and weekly propane and fuel oil data, natural gas supply and disposition data, and selected price information. The report presents distillate fuel oil net production, imports, and stocks for all Petroleum Administration for Defense (PAD) districts, and product supplied on a U.S. level. It provides propane and propylene net production, imports, and stocks, on a U.S. level and for PAD Districts I, II, and III. Natural gas supply and disposition and underground storage for the United States are provided, as well as consumption for all PAD districts. For selected States, residential and wholesale pricing data for propane and heating oil is listed, in addition to U.S. crude oil, No. 2 distillate, and propane prices for selected cities. Finally, the report includes a brief weather summary with U.S. total heating degree-days by city, appendices showing PAD district descriptions and maps, explanatory notes, and a glossary. This report will only be published during the heating season, terminating the first week in April. Publication began in October 1990.

DOE/EIA-0538 Weekly, October - April  
(Discontinued with issue 95/96-16) Available:  
NEIC

## **Nuclear**

### **32 *An Analysis of Nuclear Plant Operating Costs: A 1995 Update***

The primary purpose of this Service Report is to provide an updated analysis of nuclear power plant operating costs. This is the third report on this subject published by EIA since 1988 at the request of the U.S. Nuclear Regulatory Commission, using data and methodologies

deemed by EIA to be appropriate. This report describes the results of an analysis of nuclear power plant nonfuel operating costs. Nonfuel operating costs are composed of routine operating and maintenance (O&M) costs and capital expenditures incurred after a plant begins operating. Approximately 67 percent of the reported O&M costs are labor-related, and the remaining 33 percent are for maintenance material and supplies.

DOE/EIA-SR/OIAF/95-01 Service Report  
April 1995 84 pp. NTIS Stock Number:  
DE95011130 NTIS Price Code: A05 GPO  
Stock Number: 061-003-00907-7 GPO Price:  
\$5.50

### **33 *Decommissioning of U.S. Uranium Production Facilities***

This report analyzes the decommissioning process and its potential impact on uranium supply and prices. As early as the 1960's, public pressure arose to impose additional control measures to govern the disposal of uranium waste materials. Although the environmental and financial implications of decommissioning uranium production facilities continue to attract widespread interest, very few data have been compiled on the subject and even fewer have been published. In 1993, EIA produced its first publication on this subject.

DOE/EIA-0592 One-time February 1995 80  
pp. NTIS Stock Number: DE95007387 NTIS  
Price Code: A04 GPO Stock Number: 061-003-  
00899-2 GPO Price: \$5.50

### **34 *Spent Nuclear Fuel Discharges from U.S. Reactors 1993***

This Service Report provides current statistical data on fuel assemblies irradiated at commercial nuclear reactors operating in the United States.

This year's report provides data on the current inventories and storage capacities at these reactors. Data are collected on Form RW-859, "Nuclear Fuel Data" survey, and provide a comprehensive statistical characterization of the industry's activities for the survey year and include some information about industry plans and commitments for the future. Detailed statistics on these data are presented in four chapters that highlight 1993 spent fuel discharges, storage capacities and inventories, canister and nonfuel component data, and assembly characteristics. Five appendices, a glossary, and bibliography are also included.

DOE/EIA-SR/CNEAF/95-01 Service Report  
February 1995 256 pp. NTIS Stock Number:  
DE95007594 NTIS Price Code: A11

### ***35 Uranium Industry Annual 1994***

Information on the U.S. uranium industry is presented. Uranium raw material activities described include exploration, resources, mine production, milling operations, and employment. Uranium marketing activities discussed include: utility purchases, uranium prices, domestic procurement, foreign purchases, enrichment, inventories, market requirements, and availability. This information is collected on Form EIA-858, "Uranium Industry Annual Survey." This report contains data previously reported in *Survey of United States Uranium Marketing Activity* (DOE/EIA-0403) and *Survey of U.S. Uranium Exploration Activity* (DOE/EIA-0402). Appendices describe the survey methodology, provide technical notes, list respondents to the survey, and present the survey form. A glossary is included.

DOE/EIA-0478(94) Annual July 1995 122 pp.  
NTIS Stock Number: DE95015574 NTIS Price  
Code: A06 GPO Stock Number: 061-003-  
00916-6 GPO Price: \$11.00

### ***36 Uranium Purchases Report 1994***

This report provides data on the amount of uranium purchased by electric utilities from domestic sources and from foreign sources by material type and country of origin. It also includes data on the amount of enrichment feed deliveries to U.S. and to non-U.S. enrichers by country of origin of the uranium. It contains a list of sellers of uranium to U.S. utilities under new domestic and new imported uranium purchase contracts for 1992. This report is the second in a series of annual publications by EIA required by the Energy Policy Act of 1992.

DOE/EIA-0570(94) Annual July 1995 12 pp.  
NTIS Stock Number: DE96009982 NTIS Price  
Code: A03 GPO Stock Number: 061-003-  
00918-2 GPO Price: \$1.50

## **Electricity**

### ***37 Cost and Quality of Fuels for Electric Utility Plants 1994***

This report presents an annual summary of statistics at the national, Census division, State, electric utility, and plant levels regarding the quantity, quality, and cost of fossil fuels used to produce electricity in the United States. The purpose of this publication is to provide energy decisionmakers with accurate and timely information that may be used in forming various perspectives on issues regarding electric power.

DOE/EIA-0191(94) Annual July 1995 176 pp.  
NTIS Stock Number: DE95015577 NTIS Price  
Code: A08 GPO Stock Number: 061-003-  
00921-2 GPO Price: \$12.00

### **38 *Electric Power Annual 1994, Volume 1***

This first volume--with a focus on U.S. electric utilities--contains final 1994 data on net generation and fossil fuel consumption, stocks, receipts, and costs. Volume 1 also contains preliminary 1994 data on generation unit capability and planned additions, as well as estimates of retail sales of electricity, associated revenue, and the average revenue per kilowatthour of electricity sold. These estimates are based on a monthly sample (Form EIA-826, "Monthly Electric Utility Sales and Revenue Report and State Distributions"). Additionally, information on net generation from renewable energy sources and on the associated generating capability is included. Estimates for national-level nonutility data are also provided.

DOE/EIA-0348(94)/1 Annual July 1995 76 pp.  
NTIS Stock Number: DE95015683 NTIS Price Code: A04 GPO Stock Number: 061-003-00920-4 GPO Price: \$5.00

### **39 *Electric Power Annual 1994, Volume 2 (Operational and Financial Data)***

Volume 2 presents annual 1994 summary statistics for the electric power industry at national, regional, and State levels, including information on both electric utilities and nonutility power producers. Included are the preliminary data for electric utility retail sales of electricity, associated revenue, and average revenue per kilowatthour of electricity sold (based on the annual census--Form EIA-861, "Annual Electric Utility Report") and for electric utility financial statistics, environmental statistics, power transactions, and demand-side management. Final 1994 data for U.S. nonutility power producers on installed capacity and gross generation, as well as disposition information, are provided. The objective of the

publication is to provide industry decisionmakers, government policymakers, analysts, and the general public with historical data that may be used in understanding U.S. electricity markets.

DOE/EIA-0348(94)/2 Annual November 1995  
148 pp. NTIS Stock Number: DE96002847  
NTIS Price Code: A07 GPO Stock Number:  
061-003-00940-9 GPO Price: \$11.00

### **40 *Electric Power Monthly***

This report presents monthly summaries of electric utility statistics at the national, Census division, and State levels for net generation, fuel consumption, fuel stocks, quantity and quality of fuel, cost of fuel, electricity sales, and average retail prices of electricity. Data on net generation are also presented by North American Electric Reliability Council region. In addition, company and plant specific information on the capability of new plants is presented. Beginning with the February 1989 issue, plant level data are given for net generation, fuel consumption, fuel stocks and the quantity, cost, and quality of fuel receipts each month. Publication began June 1980.

DOE/EIA-0226 Monthly GPO Subscription  
List ID: EPM GPO Subscription Price: \$87.00

### **41 *Electric Sales and Revenue 1993***

This report provides information on sales of electricity, its associated revenue, and the average revenue per kilowatthour sold to residential, commercial, industrial, and other consumers throughout the United States. Data are presented at the national, Census division, State, and utility levels. Data on sales, revenue, and average revenue per kilowatthour provided in the report are based on annual data reported by electric utilities for the calendar year ending December 31, 1993.

DOE/EIA-0540(93) Annual January 1995 236 pp. NTIS Stock Number: DE95005669 NTIS Price Code: A11 GPO Stock Number: 061-003-00895-0 GPO Price: \$15.00

#### ***42 Electric Sales and Revenue 1994***

This report provides information on electricity sales, associated revenue, average revenue per kilowatthour sold, and number of consumers throughout the United States. The data are presented at the national, Census division, State, and electric utility levels. The information is based on annual data reported by electric utilities for the calendar year ending December 31, 1994.

DOE/EIA-0540(94) Annual November 1995 240 pp. NTIS Stock Number: DE96002674 NTIS Price Code: A11 GPO Stock Number: 061-003-00942-5 GPO Price: \$15.00

#### ***43 Electricity Generation and Environmental Externalities: Case Studies***

Electricity constitutes a critical input in sustaining the Nation's economic growth and development and the well-being of its inhabitants. However, there are byproducts of electricity production that have an undesirable effect on the environment. Most of these are emissions introduced by the combustion of fossil fuels which accounts for nearly 70 percent of the total electricity generated in United States. The environmental impacts (or damages) caused by these emissions are labeled environmental "externalities." Included in the generic term "externality" are benefits or costs resulting as an unintended byproduct of an economic activity that accrue to someone other than the parties involved in the activity. This report provides an

overview of the economic foundation of externalities, the Federal and State regulatory approaches, and case studies of the impacts of the externality policies adopted by three States.

DOE/EIA-0598 One-time September 1995 108 pp. NTIS Stock Number: DE96000696 NTIS Price Code: A05 GPO Stock Number: 061-003-00930-1 GPO Price: \$6.00

#### ***44 Financial Statistics of Major U.S. Investor-Owned Electric Utilities 1993***

This publication presents summary and detailed financial accounting data on investor-owned electric utilities. The objective of the publication is to provide Federal and State governments, industry, and the general public with current and historical data that can be used for policymaking and decisionmaking purposes related to investor-owned electric utility issues.

DOE/EIA-0437(93)/1 Annual January 1995 632 pp. NTIS Stock Number: DE95005365 NTIS Price Code: A99 GPO Stock Number: 061-003-00885-2 GPO Price: \$39.00

#### ***45 Financial Statistics of Major U.S. Investor-Owned Electric Utilities 1994***

This publication presents summary and detailed financial accounting data on the investor-owned electric utilities. The objective of the publication is to provide Federal and State governments, industry, and the general public with current and historical data that can be used for making policy decisions related to investor-owned electric utility issues.

DOE/EIA-0437(94)/1 Annual December 1995 620 pp. NTIS Stock Number: DE96003931 NTIS Price Code: A99 GPO Stock Number: 061-003-00945-0 GPO Price: \$39.00



#### ***46 Financial Statistics of Major U.S. Publicly Owned Electric Utilities 1993***

This publication presents 5 years (1989 through 1993) of summary financial data and current year detailed financial data on the major publicly owned electric utilities. The objective of the publication is to provide Federal and State governments, industry, and the general public with current and historical data that can be used for policymaking and decisionmaking purposes related to publicly owned electric utility issues.

DOE/EIA-0437(93)/2 Annual January 1995  
552 pp. NTIS Stock Number: DE95006765  
NTIS Price Code: A23 GPO Stock Number:  
061-003-00898-4 GPO Price: \$34.00

#### ***47 Financial Statistics of Major U.S. Publicly Owned Electric Utilities 1994***

The 1994 edition of this publication presents 5 years (1990 through 1994) of summary financial data and current year detailed financial data on the major publicly owned electric utilities. The objective of the publication is to provide Federal and State governments, industry, and the general public with current and historical data that can be used for policymaking and decisionmaking purposes related to publicly owned electric utility issues.

DOE/EIA-0437(94)/2 Annual December 1995  
568 pp. NTIS Stock Number: DE96003717  
NTIS Price Code: A24 GPO Stock Number:  
061-003-00946-8 GPO Price: \$35.00

#### ***48 Inventory of Power Plants in the United States 1994***

This publication provides year-end statistics on generating units operated by electric utilities in the United States (the 50 States and the District of Columbia). Statistics presented in this report reflect the status of generating units as of

December 31, 1994. The publication also provides a 10-year outlook for generating unit additions. Data summarized in this report are useful to a wide audience, including Congress; Federal and State agencies; the electric utility industry; and the general public. Data presented in this report were assembled and published by EIA to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93-275), as amended.

DOE/EIA-0095(94) Annual October 1995 404  
pp. NTIS Stock Number: DE96001766 NTIS  
Price Code: A17 GPO Stock Number: 061-003-  
00934-4 GPO Price: \$25.00

#### ***49 Performance Issues for a Changing Electric Power Industry***

This report provides an overview of some of the factors affecting reliability within the electric bulk power system. Historical and projected data related to reliability issues are discussed on a national and regional basis. Current research on economic considerations associated with reliability levels is also reviewed.

DOE/EIA-0586 One-time January 1995 64 pp.  
NTIS Stock Number: DE95006183 NTIS Price  
Code: A04 GPO Stock Number: 061-003-  
00896-8 GPO Price: \$4.25

#### ***50 U.S. Electric Utility Demand-Side Management 1993***

This report presents comprehensive information on electric power industry demand-side management (DSM) activities in the United States at the national, regional, and utility levels. The objective of the publication is to provide industry decisionmakers, government policymakers, analysts, and the general public with historical data that may be used in

understanding DSM as it relates to the U.S. electric power industry. The first chapter, "Profiles: U.S. Electric Utility Demand-Side Management," presents a general discussion of DSM, its history, current issues, and a review of key statistics for the year. Subsequent chapters present discussions and more detailed data on energy savings, peakload reductions, and costs attributable to DSM.

DOE/EIA-0589(93) Annual August 1995 136 pp. NTIS Stock Number: DE95016079 NTIS Price Code: A06 GPO Stock Number: 061-003-00922-1 GPO Price: \$9.00

### **51 U.S. Electric Utility Demand-Side Management 1994**

This report presents comprehensive information on electric power industry demand-side management (DSM) activities in the United States at the national, regional, and utility levels. The objective of the publication is to provide industry decisionmakers, government policymakers, analysts, and the general public with historical data that may be used in understanding DSM as it relates to the U.S. electric power industry.

DOE/EIA-0589(94) Annual December 1995 108 pp. NTIS Stock Number: DE96009953 NTIS Price Code: A06 GPO Stock Number: 061-003-00949-2 GPO Price: \$6.50

## **Renewable Energy/Alternative Fuels**

### **52 Alternatives to Traditional Transportation Fuels 1993**

Growing concerns about the environmental effects of fossil fuel use and the Nation's high

level of dependence on foreign oil are providing impetus for the development of replacements for traditional transportation fuels. The Alternative Motor Fuels Act of 1988, the Clean Air Act Amendments of 1990 and the Energy Policy Act of 1992 are significant legislative forces behind the growth of replacement fuel consumption. *Alternatives to Traditional Transportation Fuels 1993* provides the number of on-road alternative fueled vehicles in use in the United States, alternative and replacement fuel consumption, and information on greenhouse gas emissions resulting from the entire transportation fuel cycle for 1992, 1993, and 1995.

DOE/EIA-0585(93) Annual January 1995 100 pp. NTIS Stock Number: DE95005445 NTIS Price Code: A05 GPO Stock Number: 061-003-00891-7 GPO Price: \$7.00

### **53 Profile of Motor-Vehicle Fleets in Atlanta 1994: Assessing the Market for Alternative-Fuel Vehicles**

This study reports the results of the EIA survey of motor-vehicle fleets, both private and municipal, in Atlanta. These data should be useful to those whose goal is to assist or participate in the early development of alternative-fuel vehicle markets. The data also should be useful to persons implementing motor-vehicle-related clean air programs or analyzing transportation energy use. Persons in the petroleum industry will find useful information regarding conventional fuels and the fuel-purchasing behavior of fleets.

DOE/EIA-0601 One-time November 1995 36 pp. NTIS Stock Number: DE96002831 NTIS Price Code: A03 GPO Stock Number: 061-003-00938-7 GPO Price: \$2.75

## **54 Renewable Energy Annual 1995**

This report is the first in an expected series of annual reports EIA intends to publish to provide a comprehensive assessment of renewable energy. In doing so, EIA documents and explains in this report renewable energy information provided earlier in EIA's *Annual Energy Review 1994*. It covers the following energy sources: biomass, geothermal, wind, and solar. While hydropower is a renewable energy source, it is also regarded as a "conventional" energy source because it has furnished a significant amount of electricity for more than a century. The hydropower industry is a mature industry with little growth or change expected, and EIA provides substantial information on hydropower in its electricity publications. Therefore, this report discusses hydropower as it contributes to total renewable energy consumption but does not address hydropower as an individual energy source. The biomass sections of this report include updated information similar to that published in EIA's *Estimates of U.S. Biomass Energy Consumption 1992*. The solar sections include updated information from material previously published in *Solar Collector Manufacturing Activity 1993*. EIA has discontinued publishing these two reports.

DOE/EIA-0603(95) Annual December 1995  
192 pp. NTIS Stock Number: DE96004505  
NTIS Price Code: A08 GPO Stock Number:  
061-003-00950-6 GPO Price: \$13.00

## **Multifuel**

## **55 Annual Energy Review 1994**

The *Annual Energy Review* presents historical energy data summaries (total U.S. consumption, imports, and exports) as well as complete data coverage of the principal energy commodities. Price, inventory, and resource reserve information are also provided by fuel. Statistics

on some renewable energy sources are presented. Most of the data series are from 1949 forward. Key international data series for major energy sources and activities are also included. Publication began with the 1982 edition.

DOE/EIA-0384(94) Annual July 1995 416 pp.  
NTIS Stock Number: DE95015665 NTIS Price  
Code: A18 GPO Stock Number: 061-003-  
00919-1 GPO Price: \$25.00

## **56 Country Analysis Briefs: 1994**

This report is a compilation of country profiles for specific countries or geographical areas that are important to world energy markets. As a general rule, Country Analysis Briefs are prepared for all members of the Organization of Petroleum Exporting Countries (OPEC), major non-OPEC oil producers (i.e., the North Sea, Russia), major energy transit areas (i.e., the Ukraine), and other areas of current interest to energy analysts and policymakers. As of January 1995, over 40 CAB's, updated on an annual schedule and subject to revision as events warrant, were maintained. This report includes 25 CAB's updated during 1994.

DOE/EIA-0595 One-time May 1995 112 pp.  
NTIS Stock Number: DE95011289 NTIS Price  
Code: A06 GPO Stock Number: 061-003-  
00906-9 GPO Price: \$6.50

## **57 Emissions of Greenhouse Gases in the United States 1987-1994**

This is the third annual EIA report on U.S. emissions of greenhouse gases. This report presents estimates of U.S. anthropogenic (human-caused) emissions of carbon dioxide, methane, nitrous oxide, and several other greenhouse gases for the period 1987 to 1993. Estimates of 1994 carbon dioxide and halocarbon emissions are also provided, although complete

1994 estimates for other gases are not yet available.

DOE/EIA-0573(87-94) Annual September 1995 136 pp. NTIS Stock Number: DE96001608 NTIS Price Code: A07 GPO Stock Number: 061-003-00926-3 GPO Price: \$9.00

### **58 *Energy Information Sheets***

These sheets were developed to provide general information on various aspects of fuel production, prices, consumption, and capability. Additional information on related subject matter can be found in other EIA publications as referenced at the end of each sheet.

DOE/EIA-0578(93) Annual July 1995 52 pp. NTIS Stock Number: DE95014937 NTIS Price Code: A03

### **59 *International Energy Annual 1993***

This report presents an overview of key international energy trends for production, consumption, imports, and exports of primary energy commodities in over 200 countries, dependencies, and areas of special sovereignty. Also included are population and gross domestic product data, as well as prices for crude oil and petroleum products in selected countries. Renewable energy includes hydroelectric, geothermal, solar and wind electric power, and alcohol fuel. The data presented have been derived largely from published sources and from reports from U.S. Embassy personnel in foreign posts. Overall production and consumption data are given both in standard physical units that correspond to units used in other EIA publications (barrels, cubic feet, short tons, kilowatthours) and in British thermal units. Other data are given in standard physical units only.

DOE/EIA-0219(93) Annual May 1995 168 pp. NTIS Stock Number: DE95012804 NTIS Price Code: A08 GPO Stock Number: 061-003-00908-5 GPO Price: \$15.00

### **60 *Monthly Energy Review***

The *Monthly Energy Review* presents current U.S. total energy summaries and key data series for production, consumption, stocks, imports, exports, and prices of the individual energy commodities. Most of the data series are from 1973 forward. Also included are data on the international production of crude oil, consumption of petroleum products, petroleum stocks, and production of electricity from nuclear power facilities. Appendices present thermal, metric, and other physical conversion factors. Publication began in October 1974 as a publication of the Federal Energy Administration.

DOE/EIA-0035 Monthly GPO Subscription List ID: MER GPO Subscription Price: \$87.00

### **61 *Performance Profiles of Major Energy Producers 1993***

Pursuant to Section 205(h)(2) of the Department of Energy Organization Act, EIA, through Form EIA-28, "Financial Reporting System," has collected financial information and other measures of energy-related business efforts and results for major energy companies on a uniform, segmented basis. In the calendar year reported, 23 companies filed Form EIA-28. The comparability of information across energy lines of business is unique to this reporting system. For example, petroleum activities can be compared to activities in other lines of business or nonenergy areas, and domestic activities can be contrasted to foreign activities. The purpose of this publication is to examine year-to-year developments in the operations of the 23 major U.S. energy-producing companies on a corporate

level, by major line of energy business, by major functions within each line of business, and by geographic area. Although the focus is on developments in the reporting year, important trends since 1974 are also featured. The information contained in this report is intended to promote both an understanding and a critical review of the possible motivations and apparent consequences of investment decisions by some of the largest corporations in the energy industry.

DOE/EIA-0206(93) Annual January 1995 204 pp. NTIS Stock Number: DE96009979 NTIS Price Code: A10 GPO Stock Number: 061-003-00894-1 GPO Price: \$13.00

## **62 Profiles of Foreign Direct Investment in U.S. Energy 1993**

This report summarizes the activities in the United States by foreign-affiliated companies that own or control U.S. energy sources and supplies. This report presents the following profiles for the report year: foreign direct investment in U.S. petroleum, natural gas, and coal mining; energy production, processing, distribution, and reserves of foreign-affiliated companies; financial performance and investment activity of foreign-affiliated energy companies; overseas oil and gas operations of U.S. companies; and comparisons of foreign-affiliated companies with U.S. energy companies.

DOE/EIA-0466(93) Annual May 1995 48 pp. NTIS Stock Number: DE95012008 NTIS Price Code: A03 GPO Stock Number: 061-003-00909-3 GPO Price: \$3.25

## **63 State Energy Data Report 1993 Consumption Estimates**

This report presents estimates of annual energy consumption at the State and national levels by principal energy type (petroleum, natural gas,

coal, and electricity) and by major economic sector (residential, commercial, industrial, transportation, and electric utility) from 1960 forward. Data are presented in both physical units and British thermal units for the current year. State rankings for total energy consumption, consumption per capita, and by individual energy commodity are presented. Included in the report are documentation describing how the estimates are made for each energy source, sources of all input data, and a summary of changes from the previous report. Publication began with the 1978 edition with consumption estimates for the years 1960 to 1978.

DOE/EIA-0214(93) Annual July 1995 526 pp. NTIS Stock Number: DE95015164 NTIS Price Code: A22 GPO Stock Number: 061-003-00917-4 GPO Price: \$33.00

## **64 State Energy Price and Expenditure Report 1993**

This report presents energy price and expenditure estimates individually for the 50 States and the District of Columbia and in aggregate for the United States. The price and expenditure estimates are provided by energy source and economic sector and are published for the years 1970, 1975, 1980, 1985, and 1990 through 1993. Expenditures are calculated by multiplying the price estimates by the consumption estimates (*State Energy Data Report 1993, Consumption Estimates (SEDR)*, published in July 1995), adjusted to remove process fuel and intermediate product consumption. All expenditures are consumer expenditures; that is, they represent estimates of money directly spent by consumers to purchase energy, generally including taxes.

DOE/EIA-0376(93) Annual December 1995 284 pp. NTIS Stock Number: DE96003960

NTIS Price Code: A13 GPO Stock Number:  
061-003-00948-4 GPO Price: \$18.00

### **65 *State Energy Severance Taxes 1985-1993***

This report analyzes changes in aggregate and State-level energy severance taxes for 1985 through 1993. Data are presented for crude oil, natural gas, and coal. The report highlights trends in severance tax receipts relative to energy prices and production, using severance tax data published by the Bureau of the Census of the U.S. Department of Commerce and production data published by EIA.

DOE/EIA-TR/0599 One-time September 1995  
24 pp. NTIS Stock Number: DE96000803  
NTIS Price Code: A03 GPO Stock Number:  
061-003-00924-7 GPO Price: \$2.00

### **66 *U.S. Energy Industry Financial Developments***

This report traces key financial trends in the U.S. energy industry by quarter. Financial data are presented for companies in two broad groups--fossil fuel-producing companies and rate-regulated utilities. Companies included in each industry grouping include only the publicly traded companies whose financial data were available at the time of publication. Publication began March 1991. This publication has been discontinued since the first quarter 1995 issue.

DOE/EIA-0543 Quarterly (Discontinued with  
issue 95/1Q)

## **End-Use Consumption**

### **67 *Buildings and Energy in the 1980's***

The six Residential Energy Consumption Survey

(RECS) and four Commercial Buildings Energy Consumption Survey (CBECS) databases from the 10 consumption surveys over the 1979-to-1990 time frame contain a wealth of energy end use information on residential and commercial buildings. This is the first report to present a unified vision of energy use in residential and commercial buildings. This report presents energy data that are consistent between the two sectors and across the decade of the 1980's. It differs from previous consumption reports because all consumption statistics are reported in terms of primary electricity consumption and site energy for all other energy sources.

DOE/EIA-0555(95)/1 One-time June 1995 108  
pp. NTIS Stock Number: DE96009981 NTIS  
Price Code: A06 GPO Stock Number: 061-003-  
00914-0 GPO Price: \$6.50

### **68 *Changes in Energy Intensity in the Manufacturing Sector 1985-1991***

This report presents statistics about changes in energy consumption per constant dollar value of shipments. It is based on the 1991 Manufacturing Energy Consumption Survey (MECS) and is the third publication associated with that survey. The 1991 MECS is the third survey conducted, with earlier surveys gathering information on 1985 and 1988 energy consumption patterns. The information in this report continues the data series on changes in energy intensity based on information collected by the two earlier surveys.

DOE/EIA-0552(85-91) Triennial September  
1995 136 pp. NTIS Stock Number:  
DE96001072 NTIS Price Code: A07 GPO  
Stock Number: 061-003-00925-5 GPO Price:  
\$9.00

## **69 Commercial Buildings Energy Consumption and Expenditures 1992**

The publication presents statistics about the amount of energy consumed in commercial buildings and the corresponding expenditures for that energy. It is the second report based on the 1992 CBECS, a national energy survey of buildings in the commercial sector, conducted by EIA. *Commercial Buildings Characteristics 1992*, published in 1994, provided information on the number and size of commercial buildings for the energy-related characteristics of those buildings.

DOE/EIA-0318(92) Triennial March 1995 484 pp. NTIS Stock Number: DE95009672 NTIS Price Code: A20 GPO Stock Number: 061-003-00904-2 GPO Price: \$31.00

## **70 Federal Buildings Supplemental Survey 1993**

The Federal Buildings Supplemental Survey was conducted by EIA in conjunction with the Department of Energy's Office of Federal Energy Management Programs (OFEMP) to gain a better understanding of how Federal buildings use energy. This Service Report presents the data from 881 telephone interviews with occupants of Federal buildings in three Federal regions. These buildings were systematically selected by use of OFEMP's specifications; therefore, these data do not statistically represent all Federal buildings in the country. The purpose of the survey was threefold: (1) to understand the characteristics of Federal buildings and their energy use; (2) to provide a baseline in these three Federal regions to measure future energy use in Federal buildings as required in the Energy Policy Act of 1992; and (3) to compare building characteristics and energy use with the data collected in the CBECS.

DOE/EIA-SR/EMEU/95-02 Service Report  
November 1995 224 pp. NTIS Stock Number:  
DE96002304 NTIS Price Code: A10  
Available: NEIC

## **71 Household Energy Consumption and Expenditures 1993**

This is the second of two reports based on data from the 1993 RECS; it provides information on the use of energy in residential housing units in the United States, including consumption and expenditure data for natural gas, electricity, fuel oil, liquefied petroleum gas, and kerosene. The first report, *Housing Characteristics 1993*, published in May 1995, features data on physical characteristics of residential housing units, appliances used, the number and characteristics of occupants, the fuels used, and other energy-related characteristics.

DOE/EIA-0321(93) Triennial October 1995  
326 pp. NTIS Stock Number: DE96001099  
NTIS Price Code: A14 GPO Stock Number:  
061-003-00932-8 GPO Price: \$21.00

## **72 Housing Characteristics 1993**

This report presents statistics about the energy-related characteristics of U.S. households. These data were collected in the 1993 RECS--the ninth in a series of nationwide energy consumption surveys conducted since 1978. Over 7 thousand households were surveyed, representing 97 million households nationwide. This information includes the physical characteristics of the residential housing units, the appliances used, the number and characteristics of occupants, the fuel being used, and other energy-related characteristics. A second report, *Household Energy Consumption and Expenditures 1993*, will feature data on energy consumption and expenditures.

DOE/EIA-0314(93) Triennial May 1995 376 pp. NTIS Stock Number: DE95014557 NTIS Price Code: A16 GPO Stock Number: 061-003-00912-3 GPO Price: \$23.00

### ***73 Measuring Energy Efficiency in the United States' Economy: A Beginning***

In this report, the focus is on the measurement of energy intensity. Wherever possible, data available are used to remove from the energy-intensity indicator influencing factors, such as weather, capacity, and inventory changes that are commonly viewed as not related to changes in energy efficiency. For each sector, the number of different energy-intensity indicators presented is limited by the data available.

DOE/EIA-0555(95)/2 One-time October 1995 108 pp. NTIS Stock Number: DE96001418 NTIS Price Code: A05 GPO Stock Number: 061-003-00935-2 GPO Price: \$6.50

## **Models**

### ***74 Documentation of the Electricity Market Module (EMM) Appendix: Model Developer's Report***

This Model Developer's Report (MDR) serves as an appendix to the methodology documentation. The MDR provides an assessment of the sensitivity of the Electricity Market Module results to changes in input data or parameters.

DOE/EIA-M068(95)Appx One-time April 1995 48 pp. NTIS Stock Number: DE95014356 NTIS Price Code: A03

### ***75 Documentation of the Oil and Gas Supply Module (OGSM)***

The purpose of this report is to define the objectives of the Oil and Gas Supply Model

(OGSM), to describe the model's basic approach, and to provide details on how the model works. This report is intended as a reference document for model analysts, users, and the public. Projected production estimates of U.S. crude oil and natural gas are based on supply functions generated endogenously within the National Energy Modeling System (NEMS) by the OGSM. OGSM encompasses domestic crude oil and natural gas supply by both conventional and nonconventional recovery techniques. Crude oil and natural gas projections are further disaggregated by geographic region. OGSM projects U.S. domestic oil and natural gas supply for six lower 48 onshore regions, three offshore regions, and Alaska. The general methodology relies on forecasted drilling expenditures and average drilling costs to determine exploratory and developmental drilling levels for each region and fuel type. These projected drilling levels translate into reserve additions, as well as a modification of the production capacity for each region. OGSM also represents foreign trade in natural gas, imports and exports by entry region. Foreign gas trade may occur via either pipeline (Canada or Mexico) or via transport ships as liquefied natural gas. These import supply functions are critical elements of any market modeling effort.

DOE/EIA-M063(95) One-time October 1995 256 pp. NTIS Stock Number: DE96006100 NTIS Price Code: A11

### ***76 Documentation of the Oil and Gas Supply Module (OGSM) Appendix: Model Developer's Report***

This MDR serves as an appendix to the methodology documentation. It provides an overview of the model and an assessment of the sensitivity of OGSM results to changes in input data or parameters.



DOE/EIA-M063A(95) One-time March 1995  
36 pp. NTIS Stock Number: DE95008307  
NTIS Price Code: A03

### ***77 Documentation of the Petroleum Market Model (PMM) Appendix: Model Developer's Report***

This appendix is the methodology documentation and provides an assessment of the sensitivity of the Petroleum Market Model (PMM) results to changes in input data. The Model Developer's Report analysis for PMM is performed by varying several sets of input variables one at a time and examining the effect on a set of selected output variables. The analysis is based on stand-alone, rather than integrated, NEMS runs. This means that other NEMS modules are not responding to PMM outputs.

DOE/EIA-M059/A One-time January 1995 36  
pp. NTIS Stock Number: DE95006081 NTIS  
Price Code: A03

### ***78 EIA Model Documentation: Petroleum Market Model of the National Energy Modeling System***

The Petroleum Market Model projects petroleum product prices and sources of supply for meeting petroleum product demand. The sources of supply include crude oil, both domestic and imported; other inputs including alcohols and ethers; natural gas plant liquids production; petroleum product imports; and refinery processing gain. In addition, the Petroleum Marketing Model estimates domestic refinery capacity expansion and fuel consumption. Product prices are estimated at the Census division level and much of the refining activity information is at the Petroleum Administration for Defense (PAD) district level.

DOE/EIA-M059(95) One-time June 1995 274  
pp. NTIS Stock Number: DE95016491 NTIS  
Price Code: A09

### ***79 Model Developer's Appendix to the Model Documentation Report: NEMS Macroeconomic Activity Module***

The Macroeconomic Activity Module provides a set of essential macroeconomic drivers to the energy modules, a macroeconomic feedback mechanism within NEMS, and a mechanism to evaluate detailed macroeconomic and interindustry impacts associated with energy events. Key macroeconomic variables include gross domestic product, interest rates, disposable income, and employment. Industrial drivers are calculated for 35 industrial sectors.

DOE/EIA-M065A(95) One-time March 1995  
88 pp. NTIS Stock Number: DE95008308  
NTIS Price Code: A05

### ***80 Model Documentation: Coal Market Module of the National Energy Modeling System***

The Coal Market Module (CMM) provides annual forecasts of prices, production, and consumption of coal for NEMS. The CMM has three submodules, the Coal Production Submodule (CPS), the Coal Export Submodule (CES), and the Coal Distribution Submodule (CDS). In general, the CDS integrates the supply inputs from the CPS to satisfy demands for coal from exogenous demand models. The CES forecasts annual world coal trade flows from major supply to major demand regions and provides annual forecasts of U.S. coal exports and imports for input to the NEMS Coal Distribution Submodule. Specifically, the CDS receives minemouth prices produced by the CPS, demand and other exogenous inputs from other NEMS components, including the CES, and

provides delivered coal prices and quantities to the NEMS economic sectors and regions.

DOE/EIA-M060(95) One-time April 1995 198 pp. NTIS Stock Number: DE95010094 NTIS Price Code: A09

### ***81 Model Documentation: Electricity Market Module Modifications to the Electricity Capacity Planning Submodule***

The Electricity Market Module represents the generation, transmission, and pricing of electricity, subject to delivered prices for coal, petroleum products, and natural gas; costs of generation by centralized renewables; macroeconomic variables for costs of capital and domestic investment; and electricity load shapes and demand. There are four primary submodules--capacity planning, fuel dispatching, finance and pricing, and load and demand-side management. Nonutility generation and transmission and trade are represented in the planning and dispatching submodules. The levelized fuel cost of uranium fuel for compliance options are explicitly represented in the capacity expansion and dispatch decisions. Both new generating technologies and renewable technologies compete directly in these decisions. The competition between utility and nonutility generation and several options for wholesale pricing are included.

DOE/EIA-M068-B/1 One-time April 1995 30 pp. NTIS Stock Number: DE95010355 NTIS Price Code: A03

### ***82 Model Documentation: Natural Gas Transmission and Distribution Model of the National Energy Modeling System, Volume I***

The Natural Gas Transmission and Distribution Model (NGTDM) represents the transmission,

distribution, and pricing of natural gas. The model also includes representations of the end-use demand for natural gas, the production of domestic natural gas, and the availability of natural gas traded on the international market on the basis of information received from other NEMS. The NGTDM determines the flow of natural gas in an aggregate form, domestic pipeline network, connecting domestic and foreign supply sources with 12 demand regions. The methodology employed allows the analysis of impacts of regional capacity constraints in the interstate natural gas pipeline network and the identification of primary pipeline capacity expansion requirements. There is an explicit representation of firm and interruptible markets for natural gas transmission and distribution services, and the key components of pipeline tariffs are represented in a pricing algorithm.

DOE/EIA-M062/1(95) One-time March 1995 456 pp. NTIS Stock Number: DE95008327 NTIS Price Code: A19

### ***83 Model Documentation: Natural Gas Transmission and Distribution Model of the National Energy Modeling System, Volume II: Model Developer's Report***

The Natural Gas Transmission and Distribution Model (NGTDM) consists of four major components. The Capacity Expansion Module (CEM) and Annual Flow Module (AFM) use linear programs to solve for a gas supply and demand equilibrium while minimizing transportation costs subject to a set of constraints. The Pipeline Tariff Module (PTM) is an accounting model consisting of a set of accounting and econometric relationships. Finally, the Distributor Tariff Module (DTM) is a simple accounting module. This report documents the performance of the version of the NGTDM used to produce the *Annual Energy Outlook 1995* (NEMS95 is the model acronym).

DOE/EIA-M062/2 One-time January 1995 51 pp. NTIS Stock Number: DE95006079 NTIS Price Code: A03

#### ***84 Model Documentation: Renewable Fuels Module of the National Energy Modeling System***

This report documents the objectives, analytical approach, and design of the NEMS Renewable Fuels Module (RFM) as it relates to the production of the 1995 *Annual Energy Outlook* forecasts. The report catalogues and describes modeling assumptions, computational methodologies, data inputs, and parameter estimation techniques. A number of offline analyses used in lieu of RFM modeling components are also described. This documentation serves two purposes. First, it is a reference document for model analysts, model users, and the public interested in the construction and application of the RFM. Second, it meets the legal requirement of EIA to provide adequate documentation in support of its models (Public Law 93-275, Federal Energy Administration Act of 1974, Section 57(b)(1)). Such documentation facilitates continuity in EIA model development by providing information sufficient to perform model enhancements and data updates as part of EIA's ongoing mission to provide analytical and forecasting information systems.

DOE/EIA-M069(95) One-time July 1995 252 pp. NTIS Stock Number: DE95016575 NTIS Price Code: A11

#### ***85 Model Documentation Report: Commercial Sector Demand Module of the National Energy Modeling System***

This report documents the objectives, analytical approach, and development of the NEMS Commercial Demand Module. The report

catalogues and describes the model assumptions, computational methodology, parameter estimation techniques, model source code, and forecast results generated through the synthesis and scenario development based on these components. The NEMS Commercial Demand Module serves two purposes. First, it generates 1990-2010 forecasts of commercial sector energy demand as a component of the NEMS integrated forecasting system. Second, it facilitates policy analyses of energy markets, technological development, environmental issues and regulatory development as they affect commercial sector energy demand.

DOE/EIA-M066(95) One-time March 1995 286 pp. NTIS Stock Number: DE96009978 NTIS Price Code: A13

#### ***86 Model Documentation Report: Residential Sector Demand Module of the National Energy Modeling System***

This report documents the objectives, analytical approach, and development of the NEMS Residential Sector Demand Module. The report catalogues and describes the model assumptions, computational methodology, parameter estimation techniques, and FORTRAN source code. The Residential Sector Demand Module is currently used for mid-term forecasting purposes and energy policy analysis over the forecast horizon of 1990-2010. The model generates forecasts of energy demand, which is used interchangeably with the concept of energy consumption in this document, for the residential sector by service, fuel, and Census division. The policy impacts resulting from the introduction of new technologies, market incentives, and regulatory changes can be estimated by using the module by defining alternate input and parameter assumptions.

DOE/EIA-M067(95) One-time March 1995 224 pp. NTIS Stock Number: DE95008309 NTIS Price Code: A10

## **87 NEMS Integrating Module Documentation Report**

The NEMS Integrating Module is the central integrating component of a complex modeling system. This document provides an overview of the complete NEMS model and includes brief descriptions of the modules with which the Integrating Module interacts. The emphasis and focus, however, is on the structure and function of the Integrating Module of NEMS.

DOE/EIA-M057(95) One-time May 1995 160 pp. NTIS Stock Number: DE95011576 NTIS Price Code: A08

## **Forecasting**

### **88 Annual Energy Outlook 1995**

Annual projections of energy supply, demand, and prices are presented for the major fuels and electricity. The projections are based on assumptions about world oil prices, economic growth, and other factors affecting energy markets. A reference case is presented which is the central forecast. To reflect the uncertainty inherent in any forecast of the future, additional cases are presented. They are based on reasonable lower and upper bounds on two key factors that affect energy trends--world oil price and the rate of economic growth. The forecasts are policy neutral--they are based on current law, and no new energy laws or regulations are introduced for any purpose. Beginning with the 1982 edition, this publication replaces the report entitled *Annual Report to Congress, Volume 3: Energy Projections* (DOE/EIA-0173/3). Due to a change in the naming convention, there was no 1988 issue.

DOE/EIA-0383(95) Annual January 1995 194 pp. NTIS Stock Number: DE96009980 NTIS Price Code: A09 GPO Stock Number: 061-003-00889-5 GPO Price: \$15.00

### **89 International Energy Outlook 1995**

This report presents an assessment by EIA of the international energy market outlook through 2010. It is provided as a statistical service to energy managers and analysts, both in government and in the private sector. The projections are used by international agencies, Federal and State governments, trade associations, and other planners and decisionmakers. The *International Energy Outlook 1995* displays projections according to six major country groupings. The report begins with a look at the worldwide trends associated with energy consumption. This historical time frame has been expanded from that of the previous report to incorporate data from that of 1970. The longer time span provides readers with a better historical context for the projections. The environment remains an important focus internationally as nations attempt to stabilize carbon emissions at their 1990 levels as agreed upon at the June 1992 United Nations Conference on the Environment and Development. The remainder of the report is organized by energy source. Regional consumption projections for oil, natural gas, coal, nuclear power, hydroelectric and other renewable energy (geothermal, solar, biomass, and other renewable sources), and electricity are discussed.

DOE/EIA-0484(95) Annual May 1995 108 pp. NTIS Stock Number: DE95014139 NTIS Price Code: A06 GPO Stock Number: 061-003-00911-5 GPO Price: \$7.00

### **90 Short-Term Energy Outlook Annual Supplement 1995**

This supplement is published once a year as a complement to the quarterly *Short-Term Energy Outlook (STEO)*. It reviews the accuracy of the forecasts published in the last six issues of the *STEO*; compares EIA's base case energy

projections as published in the *STEO* with recent projections made by other major forecasting groups; and examines in detail current energy topics that affect the forecasts. Publication began with the 1987 edition.

DOE/EIA-0202(95) Annual August 1995 96 pp. NTIS Stock Number: DE95016077 NTIS Price Code: A05 GPO Stock Number: 061-003-00915-8 GPO Price: \$6.00

### **91 *Short-Term Energy Outlook Quarterly Projections***

Quarterly forecasts of energy supply, demand, stocks, and prices are presented for each quarter. The forecasts are produced by using the Short-Term Integrated Forecasting System, which uses two principal driving variables, a macroeconomic forecast and world oil price assumptions. The three projections for petroleum supply and demand are based on low, middle, and high economic growth scenarios that incorporate high, middle, and low crude oil price trajectories. The tables and discussion refer primarily to the middle, or base case, scenario and to the domestic situation. Other cases which examine the sensitivity of total petroleum demand to varying assumptions about prices, weather, and economic activity are presented. The petroleum outlook includes detailed projections of domestic crude oil production, motor gasoline, distillate fuel oil, residual fuel oil, other products, and inventories. Also included are natural gas, coal, and electric power projections. Additionally, the international petroleum situation is discussed. Publication began in October 1979.

DOE/EIA-0202 Quarterly GPO Subscription List ID: STEO GPO Subscription Price: \$17.00

### **92 *Supplement to the Annual Energy Outlook 1995***

This is a companion document to the *Annual Energy Outlook*. Part I of the *Supplement* presents the key quantitative assumptions underlying the *AEO95* projections, thereby responding to requests by energy analysts for additional information on the forecasts. In Part II, the *Supplement* provides regional projections and other underlying details of the reference case projections in the *AEO95*.

DOE/EIA-0554(95) Annual February 1995 302 pp. NTIS Stock Number: DE95007318 NTIS Price Code: A13 GPO Stock Number: 061-003-00900-0 GPO Price: \$19.00

### **93 *World Nuclear Outlook 1995***

This report presents the status of nuclear power at the end of 1994 for all countries with commercial nuclear power programs. The report contains projections of nuclear capacity, electricity generation, nuclear fuel requirements, and spent fuel discharges throughout the world. Sections covering current U.S. uranium market developments, projections of uranium prices, imports inventories and production, and uranium enrichment are also included. A review of the operating performance of U.S. reactors and issues affecting reactor lifetimes is also presented.

DOE/EIA-0436(95) Annual September 1995 158 pp. NTIS Stock Number: DE96000831 NTIS Price Code: A07 GPO Stock Number: 061-003-00927-1 GPO Price: \$11.00



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Subscription Price: \$87.00 60

**DOE/EIA-0064(93)** *Coal Data: A Reference*  
Biennial February 1995 136 pp. NTIS Stock  
Number: DE95007649 NTIS Price Code: A07  
GPO Stock Number: 061-003-00901-8 GPO  
Price: \$9.00 8

**DOE/EIA-0095(94)** *Inventory of Power Plants  
in the United States 1994*  
Annual October 1995 404 pp. NTIS Stock  
Number: DE96001766 NTIS Price Code: A17  
GPO Stock Number: 061-003-00934-4 GPO  
Price: \$25.00 48

**DOE/EIA-0109** *Petroleum Supply Monthly*  
Monthly GPO Subscription List ID: PETS  
GPO Subscription Price: \$83.00 27

**DOE/EIA-0121** *Quarterly Coal Report*  
Quarterly GPO Subscription List ID: QCR  
GPO Subscription Price: \$26.00 12

**DOE/EIA-0130** *Natural Gas Monthly*  
Monthly GPO Subscription List ID: NSG GPO  
Subscription Price: \$77.00 20

**DOE/EIA-0131(93)/S** *Natural Gas Annual 1993  
Supplement: Company Profiles*  
Annual February 1995 208 pp. NTIS Stock  
Number: DE95007128 NTIS Price Code: A08  
GPO Stock Number: 061-003-00897-6 GPO  
Price: \$13.00 18

**DOE/EIA-0131(94)/1** *Natural Gas Annual  
1994, Volume 1*  
Annual November 1995 260 pp. NTIS Stock  
Number: DE96002848 NTIS Price Code: A11

GPO Stock Number: 061-003-00943-3 GPO  
Price: \$16.00 19

**DOE/EIA-0149(94)** *EIA Publications Directory  
1994*  
Annual July 1995 68 pp. NTIS Stock Number:  
DE95015681 NTIS Price Code: A04 5

**DOE/EIA-0173(94)** *Annual Report to Congress  
1994*  
Annual April 1995 92 pp. NTIS Stock  
Number: DE95011240 NTIS Price Code: A05  
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**DOE/EIA-0191(94)** *Cost and Quality of Fuels  
for Electric Utility Plants 1994*  
Annual July 1995 176 pp. NTIS Stock  
Number: DE95015577 NTIS Price Code: A08  
GPO Stock Number: 061-003-00921-2 GPO  
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**DOE/EIA-0202** *Short-Term Energy Outlook  
Quarterly Projections*  
Quarterly GPO Subscription List ID: STEO  
GPO Subscription Price: \$17.00 91

**DOE/EIA-0202(95)** *Short-Term Energy Outlook  
Annual Supplement 1995*  
Annual August 1995 96 pp. NTIS Stock  
Number: DE95016077 NTIS Price Code: A05  
GPO Stock Number: 061-003-00915-8 GPO  
Price: \$6.00 90

**DOE/EIA-0204** *EIA New Releases*  
Bimonthly Available: NEIC 4

**DOE/EIA-0205(95)** *Energy Information  
Directory 1995*  
Annual October 1995 100 pp. NTIS Stock  
Number: DE96001798 NTIS Price Code: A05  
7

**DOE/EIA-0206(93)** *Performance Profiles of Major Energy Producers 1993*

Annual January 1995 204 pp. NTIS Stock Number: DE96009979 NTIS Price Code: A10 GPO Stock Number: 061-003-00894-1 GPO Price: \$13.00 61

**DOE/EIA-0208** *Weekly Petroleum Status Report*

Weekly GPO Subscription List ID: EWPSR GPO Subscription Price: \$72.00 30

**DOE/EIA-0214(93)** *State Energy Data Report 1993 Consumption Estimates*

Annual July 1995 526 pp. NTIS Stock Number: DE95015164 NTIS Price Code: A22 GPO Stock Number: 061-003-00917-4 GPO Price: \$33.00 63

**DOE/EIA-0216(94)** *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves 1994 Annual Report*

Annual September 1995 164 pp. NTIS Stock Number: DE96001659 NTIS Price Code: A07 GPO Stock Number: 061-003-00931-0 GPO Price: \$11.00 28

**DOE/EIA-0218** *Weekly Coal Production*

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**DOE/EIA-0219(93)** *International Energy Annual 1993*

Annual May 1995 168 pp. NTIS Stock Number: DE95012804 NTIS Price Code: A08 GPO Stock Number: 061-003-00908-5 GPO Price: \$15.00 59

**DOE/EIA-0226** *Electric Power Monthly*

Monthly GPO Subscription List ID: EPM GPO Subscription Price: \$87.00 40

**DOE/EIA-0293(95)** *Directory of Energy Information Administration Models 1995*

Annual July 1995 96 pp. NTIS Stock Number: DE95015354 NTIS Price Code: A05 2

**DOE/EIA-0314(93)** *Housing Characteristics 1993*

Triennial May 1995 376 pp. NTIS Stock Number: DE95014557 NTIS Price Code: A16 GPO Stock Number: 061-003-00912-3 GPO Price: \$23.00 72

**DOE/EIA-0318(92)** *Commercial Buildings Energy Consumption and Expenditures 1992*

Triennial March 1995 484 pp. NTIS Stock Number: DE95009672 NTIS Price Code: A20 GPO Stock Number: 061-003-00904-2 GPO Price: \$31.00 69

**DOE/EIA-0321(93)** *Household Energy Consumption and Expenditures 1993*

Triennial October 1995 326 pp. NTIS Stock Number: DE96001099 NTIS Price Code: A14 GPO Stock Number: 061-003-00932-8 GPO Price: \$21.00 71

**DOE/EIA-0340(94)/1** *Petroleum Supply Annual 1994, Volume 1*

Annual May 1995 192 pp. NTIS Stock Number: DE95012803 NTIS Price Code: A09 GPO Stock Number: 061-003-00910-7 GPO Price: \$14.00 25

**DOE/EIA-0340(94)/2** *Petroleum Supply Annual 1994, Volume 2*

Annual June 1995 608 pp. NTIS Stock Number: DE95013380 NTIS Price Code: A25 GPO Stock Number: 061-003-00913-1 GPO Price: \$39.00 26

**DOE/EIA-0348(94)/1** *Electric Power Annual 1994, Volume 1*

Annual July 1995 76 pp. NTIS Stock Number: DE95015683 NTIS Price Code: A04 GPO Stock Number: 061-003-00920-4 GPO Price: \$5.00 38

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pp. NTIS Stock Number: DE95016575 NTIS  
Price Code: A11 84

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Sector Demand Module of the National Energy  
Modeling System***

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286 pp. NTIS Stock Number: DE96009978  
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***Model Documentation Report: Residential Sector Demand Module of the National Energy Modeling System***

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00937-9 GPO Price: \$6.50 17

***Natural Gas Annual 1993 Supplement: Company Profiles***

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***Petroleum Marketing Annual 1994***

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***Petroleum Supply Annual 1994, Volume 2***  
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***Profiles of Foreign Direct Investment in U.S.  
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DOE/EIA-0202(95) Annual August 1995 96  
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***Spent Nuclear Fuel Discharges from U.S.  
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February 1995 256 pp. NTIS Stock Number:  
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***State Energy Data Report 1993 Consumption  
Estimates***  
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This is a free annual directory which lists and describes Federal and State Government offices and trade associations involved in energy matters. The purpose is to assist energy information users in locating sources of energy information other than the National Energy Information Center (NEIC). Use Order Form C to be placed on the mailing list or to receive the latest issue.

## ***EIA New Releases***

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This is a free quarterly directory which lists and describes machine-readable data files and computer models. The data files and models are available on magnetic tapes. Selected data files/models are available on diskette for IBM-compatible personal computers. For each product listed in the directory, a detailed abstract is provided which describes the data published. Use Order Form C to be placed on the mailing list or to receive the latest issue. Beginning in

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## ***Directory of Energy Data Collection Forms***

This directory is designed to provide an overview of EIA's energy information collection program. Each form listed in the directory contains an abstract with the following information: the general energy source(s) and function(s) covered by the form; the general categories of respondents; the frequency of collection; the public law and, if applicable, regulations associated with the collection; the requirement of reporting; the name and phone number of the collection manager; and the publications resulting from the data collection. The directory, as well as single blank copies of the forms listed, is available free of charge from NEIC. Use Order Form C to be placed on the mailing list or to receive the latest issue.

## ***Directory of Energy Information Administration Models***

This directory contains descriptions of all active EIA models. Included for each model are the title, acronym, purpose, and type, followed by more detailed information on characteristics, uses, and requirements. Fourteen models are included in the 1995 directory, which is available free from NEIC. Use Order Form C to be placed on the mailing list or to receive the latest issue.

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NEIC has a publication containing 23 information sheets on various aspects of coal, electricity, petroleum, and natural gas. Some sheets explain renewable types of energy, nuclear fuel, and the meaning of such terms as "degree-days" and "British thermal units." Written for the layman, the publication is free. Use Order Form C to receive the latest issue.

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Feature articles are short dissertations on key energy topics, written by the EIA staff and published in selected EIA periodicals. NEIC reprints these articles and keeps current ones in stock for distribution. They are free of charge. Current articles are listed in *EIA New Releases*. Call NEIC for further information.

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For communications or technical assistance, call (202) 586-8959, 8 a.m. to 5 p.m., eastern time, Monday through Friday. For questions about the contents of EPUB reports and data, call (202) 586-8800, 9 a.m. to 5 p.m., Monday through Friday, eastern time.

Following is a listing of some of the data and reports that are provided on EPUB:

### **Coal, Nuclear, and Alternate Fuels**

**Weekly Coal Production Report (WCPR).** Statistics on U.S. production of bituminous coal and lignite and the production of Pennsylvania anthracite are provided for each of the 2 most recent weeks, for a corresponding week in the previous year, and for the prior 52-week period and the corresponding period in the previous year, with percentage changes. Total U.S. production and the number of railroad cars loaded are also reported.

*Updated on Fridays at 5 p.m.*

**Quarterly Coal Report (QSCR).** Statistics on U.S. coal production, consumption, exports and imports, and stocks are provided by quarter for the most recent quarter and for previous years. Consumption and stocks are reported by end-use sector, and annual production trends are reported by State.

*Updated 60 days after the end of the quarter.*

### **Oil and Gas**

Heating fuel data contain the most recent weekly/monthly data on production, imports, stocks, and residential and wholesale prices for residential heating fuels.

*Updated every Thursday at 5 p.m., October through March, and the second week of the month April through September.*

**Oxygenate Data (OXYDATA).** Statistics by month on fuel ethanol, methyl tertiary butyl ether (MTBE), and methanol production, stocks, and amount blended into motor gasoline are reported. Data are by PAD district and for the total United States.

*Updated approximately 15 working days after the end of the month.*

**Weekly Petroleum Status Report (WPSR).** The latest U.S. petroleum balance sheet and the last 5 weeks of *Weekly Petroleum Status Report* data are reported. Data include domestic crude oil production, petroleum imports and exports, crude input to refineries, petroleum products supplied for consumption, and petroleum stocks. *Updated on Wednesdays (Thursdays in event of holidays) at 9 a.m., eastern time.*

**PSM State Stocks (STKS).** The most recent month's data on refinery, bulk terminal, and natural gas plant stocks of selected petroleum products (product specific) by PAD district and State are reported.

*Updated on the 20th of the month.*

**Petroleum Marketing Report (PMMR).** Statistical data for the current 3 months and the reference month 1 year ago on crude oil and petroleum product prices and sales volumes are reported. Data are for the United States and by PAD district.

*Updated on the 20th of the month.*

**Weekly On-Highway Diesel Prices (DIESLPRC).** Weekly data by U.S. average and PAD district of the retail, on-highway, self service, cash price (including taxes) of diesel fuel are included. Prices are historical back to March 21, 1994.

*Updated on Monday at 5:00 p.m., eastern time.*

**Weekly Retail Gasoline Prices (GASOLINE).** Weekly data by U.S. average and PAD district of retail, unleaded regular, self service cash

price (including taxes) for motor gasoline are included.

*Updated on Tuesday at 5:00 p.m., eastern time.*

**Natural Gas Monthly (NGMR).** Data for the most recent 5 months on natural gas supply and disposition and prices are reported. Data are at the national level for supply and disposition, consumption by consuming sector and price, and at the State level for end-use sector deliveries and price to end users.

*Updated on the 20th of the month.*

## Energy Forecasts

**Short-Term Energy Outlook (STEO).** Quarterly forecasts for the next four quarters of the U.S. energy supply and demand summary; forecast assumptions; international petroleum balance; energy prices; domestic supply and disposition of petroleum in low, mid, and high world oil price scenarios; and supply and disposition of natural gas, coal, and electricity for a mid world oil price are reported.

*Updated 60 days after the end of the quarter.*

**Short-Term Energy Model.** The complete package (in compressed format) of EIA's Short-Term Energy Model is used to forecast supply and prices of major fuels 18 months into the future. The model allows users to access all forecast information used by EIA to produce its short-term projections, to change data and forecasts to percentages and graphs, and to revise forecast assumptions and recalculate the model.

*Updated each quarter.*

**Annual Energy Outlook.** The projection cases from the *Annual Energy Outlook* are presented. These tables are the tables given in Appendices A through E of the publication *Monthly Energy Review*.

*Updated annually.*

**Monthly Energy Review (MER).** Statistics on current U.S. total energy summaries and key data series for production, consumption, stocks, imports, exports, and prices of the individual energy commodities are presented. Most of the data series are from 1973 forward. Also included are data on the international production of crude oil, consumption of petroleum products, petroleum stocks, and production of electricity from nuclear power facilities. All data tables from the *Monthly Energy Review*, including the Btu conversion factors, are included.

*Updated the last week of the month.*

## EIA Press Releases

The full text of the latest press releases from EIA is included.

*Updated as new press releases are issued.*

## EIA Publications Directory

**Publications Directory (PUBDIR.EXE).** The text of the *EIA Publications Directory* includes abstracts of the publications produced during the given year.

*Updated annually when the publication is released.*

## EIA New Releases

**New Releases (NEWREL).** The text of the current bimonthly newsletter lists and describes recently released EIA publications.

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## Upcoming Analyses and Publications

Contains listings and scheduled date of issuance of upcoming publications and analysis reports from EIA.

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## Monthly Petroleum Imports

Contains monthly data for the current reporting year and annualized data for the prior reporting years on crude oil and petroleum product imports into the United States. Data include the name of the importer of record, commodity imported, port of entry, quantity imported, percent sulfur by weight, API gravity, and processing company and location.

*Updated monthly.*

## Financial Reporting System

Contains tables from EIA's *Performance Profiles of Major Energy Producers* on operating statistics, profit ratios, balance sheet, cash flows, income taxes, U.S. well completions, development and production expenses, refining statistics, research and development expenses, and coal reserves and production. Data are aggregated for all companies reporting under EIA's Financial Reporting System.

*Updated annually.*

## Energy Information Contacts

Contains names and telephone numbers of subject matter contacts for inquiries on EIA data, forecasts, and statistical standards and methods. Also contains text of the *Energy Information Directory*.

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## End-Use Consumption Surveys File

Text of feature articles and tables of results from EIA's energy consumption surveys.

*Updated as new articles are published.*

## Electric Power Monthly

Summary electric utility statistics at the national and State level on net generation, fossil fuel consumption, fossil fuel stocks, sales, revenue, average revenue per kilowatthour sold, and fossil fuel receipts for the most recent month, the corresponding month for the previous year, and for the prior month are reported. Generation, consumption, receipts, and stocks are fuel specific; and sales, revenue, and average revenue are specific to end-use sector. Forty-four of the 64 publication tables are included.

*Updated on the 1st of the month.*

## Petroleum Supply Monthly

Statistical data on the U.S. daily average supply and disposition of petroleum; crude oil production by State and PAD district; imports of petroleum into the United States by country of origin; and petroleum stocks by PAD district are reported. Data are primarily for the most recent month. Most of the tables reported in the *Petroleum Supply Monthly* are included.

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## Internet

Inquiries can be sent to NEIC on the Internet. NEIC's E-Mail address is: [infoctr@eia.doe.gov](mailto:infoctr@eia.doe.gov). PC users must provide the following information in their E-Mail message: name, affiliation and address, daytime telephone number, fax number, and E-Mail address. NEIC will choose the best medium to respond to an inquiry as quickly as possible.

## EIA's World Wide Web Site

EIA's World Wide Web site provides access to information on energy consumption, production,

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This new compendium of EIA's national energy databases, publications, directories, and software applications brings EIA's comprehensive collection of energy information to users' fingertips.

Using CD-ROM technology, the Energy InfoDisc provides easy and inexpensive access to EIA's historical time series for production, consumption, prices, and resource availability of conventional and alternate energy resources; analyses of economic and technical topics; and projections of future energy supply, demand, and prices.

The Energy InfoDisc allows the user to view and search more than 180 data, analysis, and forecasting reports and directories published over the previous 12 months. In addition, users can access EIA's extensive energy databases and specialized applications to generate their own individualized energy databases. Each issue

highlights new products and any changes or enhancements to the CD. The Energy InfoDisc provides information about EIA's mission and goals as the primary source of statistical energy information to the public and provides a directory of EIA's energy experts by area of expertise. Contacts for other Federal statistical programs are also included.

The new CD features the *Monthly Energy Review*; *Short-Term, Annual, and International Energy Outlooks*; *Natural Gas: Issues and Trends*; *Electric Power and Renewable Energy Annuals*; and *EIA New Releases*, among many other EIA reports and directories. The Energy InfoDisc also contains EIA's *Monthly Energy Review*; oil and gas information; and coal, nuclear, and electricity databases and popular applications, including Short-Term Energy Forecasts, State Energy Data System, and World Energy.

EIA databases containing monthly and annual time series cover most aspects of energy supply and demand. Energy analysis applications allow users to examine selected aspects of EIA energy data, analyses, and forecasts and to display or tabulate the data in other ways for their own analysis.

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The Energy InfoDisc is issued quarterly. The single issue price in the United States, Canada, and Mexico is \$45. Outside these areas, the price per issue is \$60. An annual subscription of four quarterly issues is \$100 in the United States, Canada, and Mexico and \$160 outside these areas.



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COGIS is a cooperative project between EIA and STAT•USA and resides on STAT•USA's Economic Bulletin Board, which is accessible through Internet and via modem. For more information about accessing files on the Economic Bulletin Board, contact the STAT•USA at 1-800-STAT-USA.



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**Please do not return publications unless so notified.** Publications will not be accepted for return, for exchange, or for credit unless an error was made by the Superintendent of Documents in filling your order. All sales are final.

### **Inquiries**

Please wait at least 6 weeks for publications and 6 weeks for subscriptions before inquiring about your order. For inquiries on subscriptions, write to Subscription Service Section, U.S. Government Printing Office, Stop: SSOM, Washington, DC 20402. Call (202) 512-1806 or fax (202) 512-2168 for subscription inquiries. For inquiries on publications write to Publication Service Section, U.S. Government Printing Office, Stop: SSOP, Washington, DC 20402. Call (202) 512-1800 or fax (202) 512-2168 for inquiries concerning publication orders.

### **Bookdealers**

Designated bookdealers are authorized a 25-percent discount on the domestic price of any publication or subscription ordered when delivered to the dealer's normal place of business. This rule applies to single as well as multiple copies of a publication, except on items specifically designated "no discount allowed."

No discounts will be allowed when the publication, pamphlet, periodical, or subscription service is mailed to a third party (unless in quantities of 100 or more), or on those periodicals or subscription services that fall into a special pricing category. The maximum discount allowed is 25 percent.

## **Orders for 100 or More Copies**

Any customer ordering 100 or more copies of a single subscription or other publication for delivery to a single destination will be allowed a 25-percent discount on the domestic price of the item (except those items specifically designated "no discount allowed").

## **Deposit Accounts**

A deposit account may be established by sending a minimum of \$50 and receiving a unique deposit account number, which can be used to charge future purchases. Blank order forms are provided and monthly statements are mailed to customers with active deposit accounts. Orders will be accepted on any deposit account if sufficient funds are available in the account. For more information, please write:

Superintendent of Documents  
U.S. Government Printing Office  
Deposit Accounts Section  
Washington, DC 20402  
(202)512-0822

## **International Orders**

International orders require a special handling charge, which amounts to an additional 25-percent of the current domestic price. This charge covers the special handling required by customs and international mailing regulations.

All international orders are shipped via surface mail unless the customer specifically requests air mail shipping. If air mail service for a shipment is desired, the Superintendent of Documents must be contacted in advance by letter, telephone (202)512-1800, Telex TWX 710 822-9413), ANSWERBACK USGPO WSH, or fax (202)512-2250 for air mail postage rates. All back ordered items and supplemental issues of basic or supplement subscription services are sent by surface mail.

Note: GPO cannot accept checks drawn on Canadian banks for less than U.S. \$4. Orders sent directly to GPO must be in English. GPO cannot accept foreign currency, checks on foreign banks, or postage stamps. A minimum of 10 weeks for delivery should be allowed.

## **GPO Priority Announcement Service**

In response to numerous requests on how to be informed when annual or one-time publications are available for sale, GPO provides a Priority Announcement Service for all EIA annual and one-time reports available from GPO. This is a FREE service.

All energy titles are included in Priority Announcement List N-562. Individuals may be added to the mailing list for this category and, when a new publication is available for sale, a notice will be sent with an order form. Please include the code number, N-562, when requesting this service. To be placed on the mailing list contact:

Superintendent of Documents  
U.S. Government Printing Office  
Mail List Branch (Stop: SSOM)  
Washington, DC 20402

## **U.S. Government Depository Libraries**

U.S. Government Depository Libraries are congressionally designated libraries throughout the United States which automatically receive some or all U.S. Government publications. Their Government documents collection is available free for use by the general public.

Most States have one regional depository which carries all Government documents. The remaining 1,350 depository libraries carry selected Government documents. Most full-service public libraries will borrow EIA and other Government documents from depository libraries through interlibrary loan. Call your local library to find the nearest depository library.

# How to Order from the National Technical Information Service

The National Technical Information Service (NTIS) maintains microfiche of most EIA publications; paper copies can be produced from the microfiche in most cases. Customers ordering from NTIS have a number of options from which to choose.

## How to Order

Telephone orders may be placed by calling (703)487-4650. The NTIS telephone sales desk is available between 8:30 a.m. and 5 p.m., eastern time, Monday - Friday. TTY (Hearing Impaired Only): (703) 487-4639.

### Mail Orders

Send orders to: NTIS, 5285 Port Royal Road, Springfield, VA 22161. Do not mail RUSH orders. (See page 60, Special Delivery Options, for more information on the RUSH Service.)

### Fax Orders

Fax: (703) 321-8547, 24 hours/7 days a week. To verify receipt of a fax, call (703) 487-4679, 7 a.m. - 5 p.m., eastern time, Monday - Friday.

Faxing your order? Get order forms designed to speed the order. Call (703) 487-4650 and ask for NTIS PR-OFA.

### Ordering Through On-line Services

DATA-STAR, DIALOG, QUESTEL-ORBIT, and STN allow you to order NTIS technical

reports on-line. Inquiries should be directed to:

DATA-STAR, 1-(800)-221-7754

DIALOG, 1-(800)-334-2564

QUESTEL-ORBIT, 1-(800)-456-7248

(in Virginia): (703) 442-0900

STN, 1-(800)-848-6533

(in Ohio): 1-(800)-848-6538

### E-Mail Orders

Order through the Internet 24 hours a day: [orders@ntis.fedworld.gov](mailto:orders@ntis.fedworld.gov). If concerned about Internet security, a customer may register a credit card at NTIS. Call (703) 487-4682.

If a customer has an NTIS deposit account, he or she may include the number when ordering. If he or she plans to order by credit card and is concerned about Internet security, the credit card may be registered at NTIS. Call (703)487-4682, leave the card number and expiration date, and we will automatically charge the card when the E-Mail order is processed.

As with any order, please include the product number, title, quantity desired, and media type for each item; telephone number or E-Mail address; and a full shipping address.

## How to Remit

### Credit Cards

American Express, MasterCard, or VISA are accepted.

## Check or Money Order

Payable to NTIS in U.S. dollars drawn on a U.S. bank, an international bank with a U.S. address on the check, or a Canadian bank.

## NTIS Deposit Account

This convenient debit account service makes it easy to order from NTIS. The advantages include:

- Having an account number to simplify all ordering
- Using NTIS Quik Service for ordering
- Receiving monthly statements with detailed transactions and routing information

To open an account, call the NTIS Customer Accounts Division at (703) 487-4064, or write NTIS and request NTIS PR-33, *Open An NTIS Account*.

## Billing Charge

If prepayment is not made, please add \$7.50 to the total order to cover the billing charge. This option is available for orders from the United States, Canada, and Mexico only. A request to be billed must be on a purchase order or company letterhead. An authorizing signature, contact name, and telephone number should be included with this request. Requests may be mailed or faxed.

## Special Delivery Options

### RUSH Service

Technical report RUSH orders are generally shipped the next business day by express courier in the United States or by Air Mail to Canada, and Mexico. Add \$15 for each item in the order. For customers outside the United States, Canada, and Mexico, add \$25. To order, call 1-(800)-553-NTIS. Outside the United States, call (703) 487-4650. RUSH Service is available by telephone only.

### Computer Product RUSH Service

Computer product RUSH orders are processed by NTIS within 5 business days at the following rates:

- For diskettes, add \$25 per title. RUSH fees for tapes range from \$50 to \$100
- Outside the United States, Canada, and Mexico: for diskettes, add \$35 per title. RUSH fees for tapes range from \$60 to \$130

To order, call 1-(800)-553-NTIS. Outside the United States, call (703) 487-4650. RUSH Service is available by telephone only.

### Pickup Service

Orders may be picked up at the NTIS Bookstore at 5285 Port Royal Road, Springfield, Virginia, on weekdays between 8:30 a.m. and 5 p.m., eastern time. The handling fee is waived. Customers may also use the references at the Bookstore to identify needed information.



## Air Mail

Orders are shipped surface mail to countries other than the United States, unless air mail or courier service is requested.

Shipping paper copy reports by air mail is \$4 per report to Canada and Mexico and \$8 per report to other countries.

Shipping microfiche is \$1 per report to Canada and Mexico and \$1.25 per report to other countries.

International orders for computer products are shipped by air courier at no additional fee.

## Additional Information

### Order Numbers

All NTIS orders are processed by using the NTIS product number. Always use it to speed a request. It is provided in each NTIS information citation.

If a customer does not have the product number, NTIS can provide it if the customer has the complete title of the report. Call the NTIS Sales Desk at (703) 487-4650 from 8:30 a.m. to 5 p.m., eastern time.

### Prices

Prices are usually identified with a price code. To convert price codes to a dollar amount, see page 62. Out-of-print pricing may apply to certain titles acquired by NTIS more than three years prior to the current calendar year. Please call NTIS to verify price.

## Handling Fee

Fee does not apply to RUSH Service, Selected Research in Microfiche (SRIM), subscriptions, standing orders, Quik Service, and pickup orders. Documents downloaded directly from FedWorld® are exempt, while all other documents ordered from FedWorld® are subject to the handling fee. Rates are as follows:

Value of Order	Handling Fee
\$10.00 or less	\$2.00
\$10.01 - \$50.00	\$4.00
\$50.01 - \$100.00	\$6.00
Over \$100.00	\$8.00

Add \$2 to above for orders sent outside of the United States, Canada, and Mexico.

### Postage and Shipping

Orders are sent first class or equivalent in the United States. Orders to other countries are shipped surface mail unless air mail or courier service is requested.

### Tracing an Order

If there are questions about an order, the customer should write or call the NTIS Customer Service Department at (703) 487-4660 between 8:30 a.m. and 5 p.m., eastern time.

### Discounts for Technical Reports

A 25-percent discount is available for most documents if five or more copies of a single title are ordered at the same time and shipped to the same address. For discounts on more than 100 copies, call (703) 487-4650.

## Refund Policy

Although NTIS cannot accept returns for credit or refund, they will gladly replace any item requested if they made an error in filling an order, if the item was defective, or if the customer received it in damaged condition. Just call the NTIS Customer Service Department at (703) 487-4660.

## Holiday Openings

The NTIS Sales Desk, Bookstore, and Customer Service Department are open weekdays from 8:30 a.m. to 5 p.m., eastern time, and on four Federal holidays: Martin Luther King, Jr.'s Birthday, Presidents' Day, Columbus Day, and Veterans' Day.

## NTIS Price Schedules 1996

NTIS generally uses price codes to indicate the cost of items sold. The following schedule converts these codes into actual 1996 prices for customers in the United States, Canada, and Mexico only and are subject to change. For the

most recent schedule, write or call (703)487-4650 and request NTIS PR-360-3. Customers in other countries should ask for NTIS PR-360-4.

### Price Codes for Microfiche and Printed Reports

Price Code	Price—\$
A01*	6.50
A02*	10.00
A03	19.50
A04 through A05	21.50
A06	25.00
A07	28.00
A08	31.00
A09	35.00
A10	38.00
A11	41.00
A12	44.00
A13	47.00
A14 through A17	49.00
A18 through A21	57.00
A22 through A25	67.00
A99	Contact NTIS for price.

\*A01 for standard microfiche is \$10.00.

\*A02 for standard microfiche is \$14.00.

Note: "A" codes apply to standard prices.

# How to Order from the National Energy Information Center

Subscriptions and current in-stock single issues are available free of charge from NEIC for the following users: Government, news media, public and academic libraries, and EIA's survey respondents.

Call (202) 586-8800 (or TTY: (202) 586-1181) for more information or use Order Form C. This form is also used for change of address, for deleting a name from the NEIC mailing list, or for ordering free publications.

## How to Use Order Forms

To order EIA publications, first identify the distribution agency: GPO, NTIS, or NEIC and use the appropriate order form: either A, B, or C. General instructions for the use of the order forms follow; more specific instructions are included on the form.

Use Order Form A for single issues of EIA publications and for EIA publications available on a subscription basis from GPO. When placing an order, please specify the publication title and the GPO Stock Number or the GPO List ID. Include either payment in full, a charge card number, or deposit account information. Send the completed order form to GPO at the address on the order form.

Use Order Form B for ordering EIA publications available from NTIS. Send the completed form to NTIS at the address on the order form. Always include either payment in full, a charge card number, or deposit account information with the order.

Use Order Form C for ordering free publications, free subscriptions, and for NEIC mail list changes/additions. Send the completed form to NEIC, using the address on the order form.

### NOTICE

Prices of EIA publications sold by the U.S. Government Printing Office (GPO) and the National Technical Information Service (NTIS) are subject to change without notice.

When EIA publications are discontinued and consolidated into other reports, the individuals who received copies of the terminated publication through the EIA mailing list are automatically placed on the mailing list for the new publication. Subscribers to discontinued, paid publications through GPO are generally sent refunds for any balances remaining on their subscription. For further information about paid subscriptions, please contact GPO at (202) 512-1800.



**Figure 1. Order Form A: GPO Order Form**



*Charge your order.  
It's easy!*



Fax your orders to (202) 512-2250  
Phone your orders to (202) 512-1800

Order Processing Code:  
\* **7862**

## Publications

**Please type or print** (Form is aligned for typewriter use.)

Qty.	Stock Number	Title	Price	Total Price
Total for Publications				

## Subscriptions

Qty.	(List ID)	Title	Price	Total Price
<b>NOTE:</b> Prices include regular domestic postage and handling and are subject to change. International customers please add 25%.			<b>Total for Subscriptions</b>  <b>Total Cost of Order</b>	

**NOTE:** Prices include regular domestic postage and handling and are subject to change. International customers please add 25%.

Company or personal name (Please type or print)

Additional address/attention line

Street address \_\_\_\_\_

City, State, Zip code \_\_\_\_\_

Daytime phone including area code

Purchase order number (optional)

**For privacy protection, check the box below:**

☐ Do not make my name available to other mailers

**Check method of payment:**

☐ Check payable to Superintendent of Documents☐ GPO Deposit Account      

							-	
--	--	--	--	--	--	--	---	--

☐ VISA    ☐ MasterCard

[illegible]

				expiration date
--	--	--	--	-----------------

**Thank you for  
your order!**

**Mail to:** Superintendent of Documents  
P.O. Box 371954, Pittsburgh, PA 15250-7954

(Authorizing signature)

3/96

**Important: Please include this completed order form with your remittance**  
*Photocopies of this form are acceptable*



Figure 2. Order Form B: NTIS Order Form

U.S. DEPARTMENT OF COMMERCE TECHNOLOGY ADMINISTRATION		ORDER FORM		NTIS						
				Information is our business.						
<b>SHIP TO ADDRESS</b>										
CUSTOMER MASTER NUMBER (IF KNOWN)				DATE						
ATTENTION/NAME										
ORGANIZATION			DIVISION / ROOM NUMBER							
STREET ADDRESS										
CITY			STATE	ZIP CODE						
PROVINCE / TERRITORY			INTERNATIONAL POSTAL CODE							
COUNTRY										
PHONE NUMBER ( )			FAX NUMBER ( )							
CONTACT NAME			INTERNET E-MAIL ADDRESS							
<b>METHOD OF PAYMENT</b>										
<input type="checkbox"/> Check / Money Order enclosed for \$ (PAYABLE IN U.S. DOLLARS)										
<input type="checkbox"/> NTIS Deposit Account Number:										
<input type="checkbox"/> VISA <input type="checkbox"/> MasterCard <input type="checkbox"/> American Express										
CREDIT CARD NUMBER			EXPIRATION DATE							
CARDHOLDER'S NAME										
SIGNATURE (REQUIRED TO VALIDATE ALL ORDERS)										
<b>PRODUCT SELECTION</b>										
NTIS PRODUCT NUMBER (ORDERING BY TITLE ALONE WILL DELAY YOUR ORDER)	INTERNAL CUSTOMER ROUTING (OPTIONAL) UP TO 8 CHARACTERS	UNIT PRICE	QUANTITY						INTERNATIONAL AIRMAIL FEE (SEE BELOW)	TOTAL PRICE
			PAPER COPY	MICRO- FICHE	MAGNETIC TAPE *	DISKETTE	CD-ROM	OTHER		
		\$							\$	\$
		\$							\$	\$
		\$							\$	\$
		\$							\$	\$
		\$							\$	\$
		\$							\$	\$
* CIRCLE REQUIREMENTS	3480 CARTRIDGE	1600 BPI	6250 BPI	LABELING		FORMAT				
				STANDARD	NONLABELED	EBCDIC	ASCII			
<b>TOTAL</b>										\$
<b>HANDLING FEE PER ORDER (SEE CHART ABOVE)</b>										\$
<b>GRAND TOTAL</b>										\$

**PLEASE NOTE**  
Unless microfiche or other is specified, paper copy will be sent.  
Please call the Sales Desk at (703) 487-4650 for information on multiple copy discounts available for certain documents and price verification.

**Out-Of-Print Surcharge**  
Effective 4/17/95, an out-of-print surcharge may apply to certain titles acquired by NTIS more than three years prior to the current calendar year; please call to verify price.

**International Airmail Fees**  
Canada and Mexico add \$4 per paper copy report; \$1 per microfiche copy. Other countries add \$8 per paper copy report; \$1.25 per microfiche copy. (Paper copy reports and microfiche copies are shipped surface mail unless airmail is specified.)

*Thank you for your order!*  
**Prices are subject to change.**

All previous versions of this form are obsolete.  
3/96

**ORDER BY PHONE** (ELIMINATE MAIL TIME)  
8:30 a.m. - 5:00 p.m. Eastern Time, M - F.  
Sales Desk: (703) 487-4650  
Subscriptions: (703) 487-4630  
TDD (hearing impaired only): (703) 487-4639

**ORDER BY FAX**  
24 hours/7 days a week: (703) 321-8547  
To verify receipt of fax: call (703) 487-4679  
7:00 a.m. - 5:00 p.m., Eastern Time, M - F.

**ORDER BY MAIL**  
National Technical Information Service  
5285 Port Royal Road  
Springfield, VA 22161

**RUSH SERVICE** (DO NOT MAIL RUSH ORDERS)  
1-800-553-NTIS. RUSH service available for additional fee.

**ONLINE ORDERING**  
Order through the Internet 24 hours a day: orders@ntis.fedworld.gov  
If concerned about Internet security, you may register your credit card at NTIS. Simply call (703) 487-4682.

**FEDWORLD®**  
Please call for connect information: (703) 487-4608.

**BILL ME**  
(U.S., Canada, and Mexico only.)  
**DO NOT USE THIS FORM.**  
NTIS will gladly bill your order, for an additional fee of \$7.50.  
A request to be billed must be on a purchase order or company letterhead. An authorizing signature, contact name, and telephone number should be included with this request. Requests may be mailed or faxed.

**REFUND POLICY**  
Although NTIS cannot accept returns for credit or refund, we will gladly replace any item you requested if we made an error in filling your order, if the item was defective, or if you received it in damaged condition. Just call our Customer Service Department at (703) 487-4660.

NTIS HANDLING FEE

Value of Order	Handling Fee
\$10.00 or less .....	\$2.00
\$10.01 - \$50.00 .....	\$4.00
\$50.01 - \$100.00 .....	\$6.00
Over \$100.00 .....	\$8.00

Add \$2.00 to handling fee for orders sent outside the United States, Canada, and Mexico.





Figure 3. Order Form C: NEIC Order Form

## NEIC Orders

### NATIONAL ENERGY INFORMATION CENTER ORDER FORM

TO ORDER FREE PUBLICATIONS--TO NOTIFY NEIC OF CHANGE OF ADDRESS  
--TO CANCEL A MAILING LIST PUBLICATION

Mail to: National Energy Information Center, EI-231  
Energy Information Administration  
Room 1F-048, Forrestal Building  
Washington, DC 20585

Name

Business Affiliation

Address

City and State

Zip Code

( )

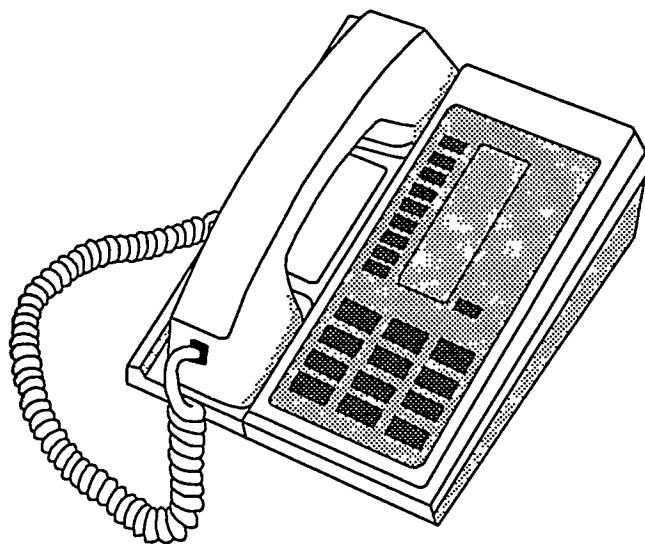
Phone number with area code

Mail List I.D. Number  
(Found in upper left  
corner of your mailing  
label.)

- ☐ Change of address.
- ☐ Add name to mailing list for free publication(s) as listed below.
- ☐ Take name off mailing list for publication(s) as listed below.
- ☐ Free publication(s) as listed below.

DOE/EIA Number	Title	Number of Copies

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your  
copy  
of**



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