

Introduction

I This issue of the Digest of United Kingdom Energy Statistics continues a series which commenced with the Ministry of Fuel and Power Statistical Digest for the years 1948 and 1949, published in 1950. The Ministry of Fuel and Power Statistical Digest was previously published as a Command Paper, the first being that for the years 1938 to 1943, published in July 1944 (Cmd. 6538).

II The current issue updates the figures given in the Department of Trade and Industry's (DTI) *Digest of United Kingdom Energy Statistics 2005*, published in July 2005.

III This printed and bound issue consists of seven chapters and four annexes. The first chapter deals with overall energy. The other chapters cover the specific fuels, combined heat and power and renewable sources of energy. The annexes cover calorific values and conversion factors, a glossary of terms, further sources of information and major events in the energy industries.

IV This Digest is also available on the Internet. Some additional information appears on the Internet only. The tables on the Internet are provided in Microsoft Excel format. Most Internet versions of the tables include data for earlier years, which are not provided in the printed copy publication. For example commodity and energy balances (see VII and VIII, below) for 1998 to 2002, are included on the Internet, and tables that show five years in this printed version show 8 years in their Internet form because page sizes are not a limiting factor. In addition, the following appear on the Internet version only:

- Long term trends text and tables
- Major events from 1990 to 2006 - Annex D
(only Major events for 2004 to 2006 appear in the printed and bound version)
- Energy and the environment – Annex E
- UK oil and gas resources - Annex F
- Foreign Trade – Annex G

V Annual information on prices is included in the publication *Quarterly Energy Prices*. This is available together with *Energy Trends* on subscription from the DTI. Further information on these publications can be found in Annex C.

VI Where necessary, data have been converted or adjusted to provide consistent series. However, in some cases changes in methods of data collection have affected the continuity of the series. The presence of remaining discontinuities is indicated in the chapter text or in footnotes to the tables.

VII Chapters 2, 3, 4, 5 and 7 contain production and consumption of individual fuels and are presented using *commodity balances*. A commodity balance illustrates the flows of an individual fuel through from production to final consumption, showing its use in transformation (including heat generation) and energy industry own use. Further details of commodity balances and their use are given in Annex A, paragraphs A.7 to A.42.

VIII The individual commodity balances are combined in an *energy balance*, presented in Chapter 1, *Energy*. The energy balance differs from a commodity balance in that it shows the interactions between different fuels in addition to illustrating their consumption. The energy balance thus gives a fuller picture of the production, transformation and use of energy showing all the flows. Expenditure on energy is also presented in energy balance format in Chapter 1. Further details of the energy balance and its use, including the methodology introduced in the 2002 Digest for heat, are given in Annex A, paragraphs A.43 to A.58.

IX Chapter 1 also covers general energy statistics and includes tables showing energy consumption by final users and an analysis of energy consumption by main industrial groups. Fuel production and consumption statistics are derived mainly from the records of fuel producers and suppliers.

X Chapters 6 and 7 summarise the results of surveys conducted by Future Energy Solutions (part of AEA Technology) on behalf of the DTI. These chapters estimate the contribution made by combined heat and power (CHP) and renewable energy sources to energy production and consumption in the United Kingdom.

XI Some of the data shown in this Digest may contain unpublished revisions and estimates of trade from additional sources.

Definitions

XII The text at the beginning of each chapter explains the main features of the tables. Technical notes and definitions, given at the end of this text, provide detailed explanations of the figures in the tables and how they are derived. Explanations of the logic behind an energy balance and for commodity balances are given in Annex A.

XIII Most chapters contain some information on 'oil' or 'petroleum'; these terms are used in a general sense and vary according to usage in the field examined. In their widest sense they are used to include all mineral oil and related hydrocarbons (except methane) and any derived products.

XIV An explanation of the terms used to describe electricity generating companies is given in Chapter 5, paragraphs 5.48 to 5.50.

XV Data in this issue have been prepared on the basis of the Standard Industrial Classification (SIC 2003) as far as is practicable. For further details of classification of consumers see Chapter 1, paragraphs 1.52 to 1.56.

XVI Where appropriate, further explanations and qualifications are given in footnotes to the tables.

Proposed change to use net calorific values when producing energy statistics

XVII A consultation was launched in the 2005 edition of DUKES seeking views of users as to whether net calorific values (NCVs) should be used in place of Gross Calorific Values (GCVs). As a result of this consultation, DTI recognised that there are good arguments both for and against moving from GCV to NCV. However at present it has been concluded that there would be no demonstrable advantage to changing the method of presenting UK Energy statistics, and so GCVs continue to be used in this edition and will be used in future editions of the Digest. The fuel specific NCVs will continue to be published, and are shown in Annex A. Further information on this decision is shown in Chapter 1 on page 11.

Geographical coverage

XVIII The geographical coverage of the statistics is the United Kingdom. Shipments to the Channel Islands and the Isle of Man from the United Kingdom are not classed as exports. Supplies of solid fuel and petroleum to these islands are therefore included as part of United Kingdom inland consumption or deliveries.

Periods

XIX Data in this Digest are for calendar years or periods of 52 weeks, depending on the reporting procedures within the fuel industry concerned. Actual periods covered are given in the notes to the individual fuel chapters

Revisions

XX The tables contain revisions to some of the previously published figures, and where practicable the revised data have been indicated by an 'r'. The 'r' marker is used whenever the figure has been revised from that published in the printed copy of the 2005 Digest, even though some figures may have been amended on the Internet version of the tables. Statistics on energy in this Digest are classified as National Statistics. This means that they are produced to the professional standards set

out in the National Statistics Code of Practice and relevant protocols. The National Statistics protocol on revisions requires that "Each organisation responsible for producing National Statistics will publish and maintain a general statement describing its practice on revisions". The following statement outlines the policy on revisions for energy statistics.

Revisions to data published in the *Digest of UK Energy Statistics*.

It is intended that any revisions should be made to previous years' data only at the time of the publication of the Digest (ie in July 2006 when this Digest is published, revisions can be made to 2004 and earlier years). In exceptional circumstances previous years' data can be amended between Digest publication dates, but this will only take place when quarterly *Energy Trends* is published. The reasons for substantial revisions will be explained in the 'Highlights' sheet of the Internet version of the table concerned. Valid reasons for revisions of Digest data include:

- revised and validated data received from a data supplier;
- the figure in the Digest was wrong because of a typographical or similar error.

In addition, when provisional annual data for a new calendar year (eg 2006) are published in *Energy Trends* in March of the following year (eg March 2007), percentage growth rates are liable to be distorted if the prior year (ie 2005) data are constrained to the Digest total, when revisions are known to have been made. In these circumstances the prior year (ie 2005) data will be amended for all affected tables in *Energy Trends* and Internet versions of all affected Digest tables will be clearly annotated to show that the data has been up-dated in *Energy Trends*.

Revisions to current years data published in *Energy Trends* but not in the *Digest of UK Energy Statistics*.

- All validated amendments from data suppliers will be updated when received and published in the next statistical release.
- All errors will be amended as soon as identified and published in the next statistical release.
- Data in energy and commodity balances format will be revised on a quarterly basis, to coincide with the publication of *Energy Trends*.

Further details on National Statistics Code of Practice and related protocols can be found at: www.statistics.gov.uk/about_ns/cop/default.asp.

Energy data on the Internet

XXI Energy data are held on the energy area of the DTI web site, under "statistics". The Digest is available at www.dti.gov.uk/energy/statistics/publications/dukes/page29812.html. Information on further DTI energy publications available both in printed copy format and on the Internet is given in Annex C.

XXII A new DTI web site was launched in May 2006, as a result the DTI web addresses used in this edition of the Digest publication are different from previous years. The change has meant that the version of the Digest accessible from the Internet contains all sections within the printed copy and those sections that are only published on the Internet. Links to other sections of the Digest are in the form of 'go-to' links on the Internet version.

XXIII Short term statistics are published:

- monthly, by the DTI on the Internet at www.dti.gov.uk/energy/statistics/source/index.
- quarterly, by the DTI in paper and on the Internet in *Energy Trends*, and *Quarterly Energy Prices*: www.dti.gov.uk/energy/statistics/publications.

quarterly, by the DTI in Statistical Press Release which provides a summary of information published in *Energy Trends* and *Quarterly Energy Prices* publications: www.gnn.gov.uk/

monthly, by the Office for National Statistics in the Monthly Digest of Statistics (Palgrave Macmillan).

To subscribe to *Energy Trends* and *Quarterly Energy Prices*, please contact Clive Sarjantson at the address given at paragraph XXIX. Single copies are available from the DTI Publications Orderline, as given in Annex C, priced £6 for *Energy Trends* and £8 for *Quarterly Energy Prices*.

Table numbering

XXIV Page 10 contains a list showing the tables in the order in which they appear in this issue, and their corresponding numbers in previous issues.

Symbols used

XXV The following symbols are used in this Digest:

- .. not available
- nil or negligible (less than half the final digit shown)
- r Revised since the previous edition

Rounding convention

XXVI Individual entries in the tables are rounded independently and this can result in totals, which are different from the sum of their constituent items.

Acknowledgements

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Cover photograph

XXVIII The cover illustration used for this Digest and other 2005-2006 DTI energy statistics publications is from a photograph by Peter Askew. It was a winning entry in the DTI News Photographic Competition in 2002.

Contacts

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XXX For enquiries concerning particular data series or chapters contact those named on page 9 or at the end of the relevant chapter.

*Sally Mercer, Production Editor
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