

EUROSTAT Energy Indicators Program

Data Collection and Production

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Energy Statistics

Eurostat

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Data Collection and Production

- Eurostat energy statistics: activities in general
- Frequency, timeliness and scope of energy statistics
- Data collection, processing and evaluation
- New policy of data dissemination
- Indicators

Eurostat energy statistics activities

- ❑ Provide the Commission with statistics needed for an effective energy policy
- ❑ Provide high quality statistical services and products to other users
- ❑ Implement actions improving national statistical systems (EU Member States and Accession Countries)
- ❑ Assist Candidate Countries in adapting their national systems to EU standards

Eurostat energy statistics activities

- Processes
 - main/routine activities of the unit
 - in response to the first and second Ambitions
- Projects - Member States and Accession Countries
 - demand driven (Commission)
 - in response to the last three Ambitions

Frequency, timeliness and scope of energy statistics

- A balance to strike between timeliness and accuracy
- Data collection with a set of questionnaires:
 - different frequencies
 - different timing
- Frequencies:
 - Annual
 - half-yearly
 - Monthly
- Timing:
 - 8 months
 - 3 months
 - 1 month

Frequency, timeliness and scope of energy statistics

Frequency

- Annual:
 - Coal
 - Oil
 - Natural Gas
 - Electricity & Heat
 - Renewables & Wastes
- Half-yearly: prices

Delay

- Annual: 8 months
- Half-yearly: 3 months

Frequency, timeliness and scope of energy statistics

Frequency

- Monthly (M-3):
 - MOS (Oil and Gas)
 - Monthly Coal
 - Monthly Electricity
- Monthly (M-1):
 - JODI (Joint Oil Data Initiative)
 - SEGgas (Short Gas)
 - SEGelectricity (Short Electricity)

Delay

- Monthly: 3 months
- Monthly: 1 month (!)

Frequency, timeliness and scope of energy statistics

Scope:

- Energy commodity balances
- External trade (Imports/Exports by country of origin/destination)
- Structure of the Energy Industry
- Price Statistics

Data collection, processing and evaluation

- Data providers
- Data collection
- Evaluation and output
- Users

Data collection, processing and evaluation

Data providers

- National Statistical Institutes
- Ministries (Energy, Industry, Economy)
- Energy Agencies designated by the MS
- Professional Associations
- Energy Industries

Data collection, processing and evaluation

Data collection

Standardised questionnaires:

- Five joint Eurostat/IEA/UNECE **annual** questionnaires
Coal, Oil, Natural Gas, Electricity & Heat, Renewables & Wastes
- M-3 **monthly** questionnaires:
 - The MOS (Monthly Oil and Natural Gas Statistics): IEA questionnaire, also in use by Eurostat
 - Monthly Coal and Monthly Electricity: purely Eurostat
- M-1 **monthly** questionnaires:
 - JODI (Joint Oil Data Initiative): joint questionnaire of APERC, Eurostat, IEA, OLADE, OPEC, UNESD
 - SEGgas (Short Gas) and SEGelectricity (Short Electricity): purely Eurostat questionnaires

Data collection, processing and evaluation

Data collection

Others:

- **Half-annual** energy prices (based on a EC Directive):
 - Households and industry prices for gas and electricity
 - purely Eurostat

Data collection, processing and evaluation

Evaluation and output

- Data entry into central database
 - Reception mostly per email
 - Loading and checking of data highly optimised
- Evaluation
 - Inconsistencies or omissions, questions to data providers, ...
 - Overlapping/interacting data of the various questionnaires
 - Highly interactive team

Processing and evaluation

Evaluation and output

- Databases (SIRENE, NEW CRONOS)
 - 2850 series per Member State
 - starting from 1960
- Publications (electronic or on hardcopy):
 - Energy Balance Sheets (annual)
 - Energy Yearly Statistics (annual)
 - Monthly Bulletin (monthly)
 - Energy Prices (half-yearly)
 - Statistics in Focus (20 per year): small topical editions
 - Annual Energy Statistics Manual: with the IEA

Processing and evaluation

Users

- The Commission
- Other Institutions, EIB, EEA
- National Administrations
- Energy Industry, Plant Operators, Professional Associations
- Consultants, Universities, Citizens

New policy of data dissemination

Last year's crisis in Eurostat

- Problems originated from excessive externalisation, particularly for data dissemination
- *The quality of the data was never questioned*

Completely new dissemination policy:

- New policy of free dissemination (*New Cronos access to public*)
- Dissemination primarily in electronic format (Internet)
- Free internet dissemination planned to be operational in October 2004

Available Energy Indicators

- Coverage : NewCronos/Sirene
 - 25 member states, Rumania, Bulgaria
- Structural indicators: annual data of strategic importance
 - Market share of the largest generator in the electricity market
 - Energy intensity of the economy
 - Share of renewable energy
- Euro-indicators: monthly key economic indicators
 - Supplies/imports, key energy prices, electricity consumption

ISED

- Agreement to be reached for the ISED list
- Analysis on availability of data in Eurostat system:
 - Economic indicators (ECO x):
 - » In general: very well covered
 - » Good: quality, timeliness, completeness
 - Environmental indicators (ENV x):
 - » GHG and acidifying emissions: covered
 - » Some of the proposed indicators are hard-to-get values
 - » Further evaluation to be planned
 - Social indicators (SOC x):
 - » Energy data do not (yet) consider social issues
 - » Household surveys, health statistics: many data available, further evaluation to be planned