



# Global Energy Market & CO2 Data

Comprehensive online database on energy supply & demand and GHG emissions

The Global Energy Market & CO2 database is an online energy information system providing market intelligence on most countries and all energy products, by sector. The database is made up of data compiled from more than 200 national & international information sources. Through a careful data update process and advanced expertise, Enerdata provides the most relevant and up-to-date information in terms of global supply, demand and prices for all energies as well as GHG emissions by sector.

## WHY SUBSCRIBE?

- 24/7 online access
- > 200 sources in a single database
- Annual data from 1970 to 2009
- Global supply, demand and prices, GHG emissions by sector
- All energies covered
- 184 countries covered
- Monthly updates

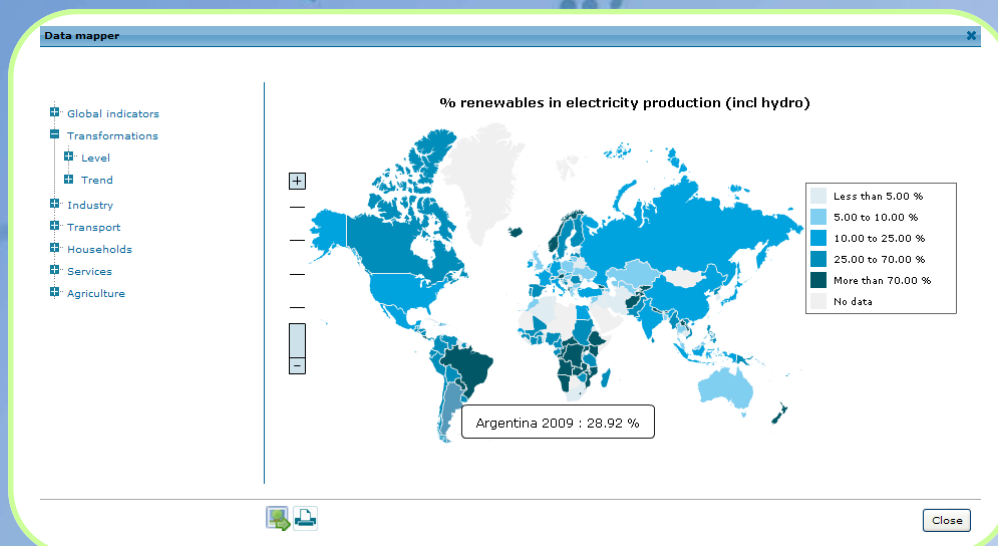
## Who needs Global Energy Market & CO2 Data?

### ORGANISATIONS

- Oil & Gas Companies
- Utilities
- Energy equipment companies
- Consulting firms
- Universities/Research Centres

### USERS

- Strategy
- Marketing
- Economic Studies
- Business Development/Planning
- Consultants
- Professors/Library



## Key Features

- ➔ Online access
- ➔ Monthly updates
- ➔ **New!** 2009 market data
- ➔ DataMapper, country snapshot & country ranking
- ➔ Large geographical coverage: 184 countries
- ➔ Energies covered: power, oil, gas, coal, renewables
- ➔ Annual time series since 1970
- ➔ Extended data series by country (2 500 data series): capacities & reserves, supply & demand, market prices, socio-economic data
- ➔ Energy balances by country, by energy source
- ➔ CO2 indicators & balances by country
- ➔ CO2-energy emissions from combustion, by fuel & by activity
- ➔ CO2-energy emissions from industry process, by industry branch
- ➔ CH4, N2O, PFC, SF6, emissions data included
- ➔ Emissions data in line with official institutions' guidelines

## Key Benefits

- ➔ Access more than 200 data sources through a single database
- ➔ Benefit from reliable data provided by our experienced energy statisticians
- ➔ Get the most recent energy market data available
- ➔ Understand any energy market in a snapshot
- ➔ Follow trends by energy, sector, or activity
- ➔ Benchmark energy markets easily
- ➔ Benchmark country trends easily
- ➔ Quick data retrieval and analysis through advanced interface
- ➔ No ruptures in time-series for easier modelling work
- ➔ Advanced data request & analysis interface
- ➔ Numerous market indicators for advanced analysis
- ➔ Direct contact with our experts for data assistance

The screenshot shows the Enerdata web interface with the following components:

- Database Selection:** Points to the 'Energy' menu item.
- Request Export:** Points to the 'Request Export' button.
- Data Tools:** Points to the 'DataMapper' menu item.
- Selected Criteria:** Points to the 'Selected criteria' section showing 'Electricity consumption of transport' for Brazil, France, and Germany from 2005 to 2008.
- Country Snapshot and Ranking:** Points to the 'Top 10 countries ranking' table.
- Series Selection:** Points to the 'Items' menu on the left.
- Request Result:** Points to the bar chart showing electricity consumption of transport.

Country	Ranking
Russia	60.7
China	27.8
Japan	18.8
Germany	16.4
France	12.9
India	12.1
Italy	10.3
Ukraine	9.36
United Kingdom	8.30
United States	7.65

### NEW!

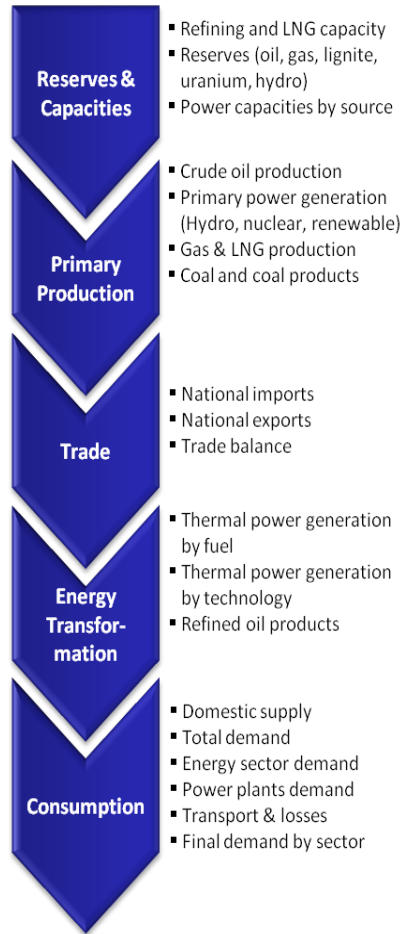
- Loading time three times faster than before
- Explicit menu bar topics
- Larger display for query results
- Direct selection of countries/series on query result display
- Intuitive help application

# Comprehensive energy market coverage

## Energies available

- Electricity
  - Total
  - Hydro-electricity
  - Nuclear
  - Thermal
  - Wind
  - Solar
  - Geothermal
  - Other
- Coal, Lignite
  - Total
  - Coal
  - Lignite
  - Coke
  - Briquettes
  - Peat
- Gas
  - Natural gas
  - LNG
  - Manufactured gas
  - Coking gas
  - Blast furnace gas
- Oil
  - Total
  - Crude oil, N.G.L.
    - Total
    - Crude oil
    - NGL
    - Non conventional oil
    - Refinery Feedstocks
  - Refined oil products
    - Total
    - Motor gasoline
    - Diesel and light fuel oil
    - Heavy fuel oil
    - LPG
    - Ethane
    - Refinery gas
    - Jet-fuel
    - Aviation gasoline
    - Kerosene
    - Naphta
    - Bitume
    - White spirit
    - Lubricants
    - Paraffin
    - Petroleum coke
- Biomass
- Heat

## Full coverage of the energy value chain by country



## Sectors covered

- Industry**
- Steel
  - Chemicals
  - Non metallic mineral
  - Food and Tobacco
  - Construction
  - Mining
  - Machinery
  - Non ferrous metals
  - Paper and pulp
  - Transport equipment
  - Textiles & leather
  - Wood
  - Miscellaneous Industries

### Transport

- Air
- Road
- Rail
- Internal navigation

### Households

### Services

### Agriculture

### Non energy uses

- Chemical feed stocks

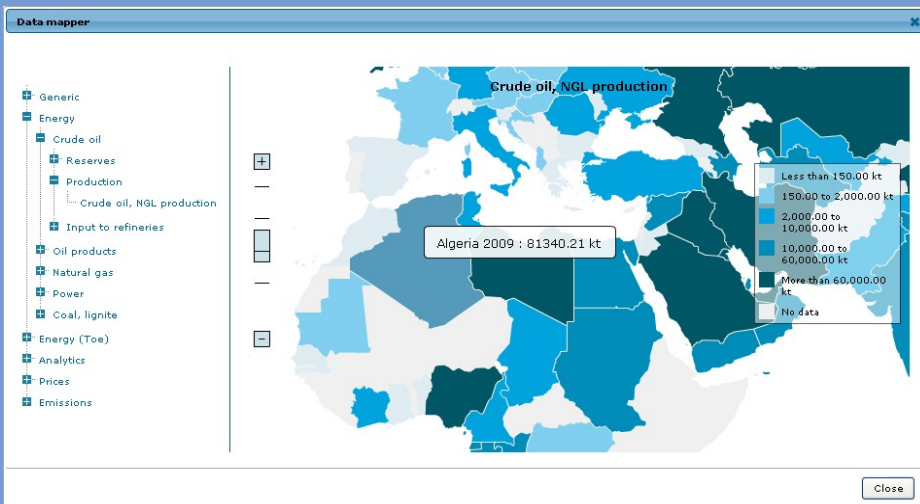
### Energy sector

- Oil & gas extraction
- Coal extraction
- Refineries
- Power plants
- Nuclear industry
- Coking Plants

### Power plants

- Public power plants
- Auto-producers
- Cogeneration
- Pumping

### T&D losses



## Data Mapper

A mapping application is included to provide an advanced visual analysis tool. Dozens of indicators are provided in order to instantly compare all countries in the world on a single map.

## Advanced analytical tools

Based on our deep expertise of energy markets, our team of data specialists has developed additional inputs to provide a best-in-class tool for market research:

- ➔ Calculation of relevant indicators
- ➔ Design of energy balances
- ➔ Energy coefficients
- ➔ Energy units & convertors
- ➔ Socio-economic data

### Energy Balances

- > Overall energy balance
- > Oil balance, detailed by refined product
- > Coal balance, detailed by product
- > Electricity balance, detailed by source
- > Renewable balance, detailed by source
- > Biomass balance, detailed by product

### Energy market indicators

- > Consumption structures by sector/by energy
- > Consumption trends by energy/by sector
- > Energy trade
- > Security indicators
- > Energy market shares by sector
- > Energy efficiency indicators: total and by sector

### Economic data

- > Population
- > GDP
- > Consumption/Investment
- > Value added by sector
- > Exchange rate/Deflator
- > Foreign trade

Mtoe	Solid fuels	Crude oil	Oil products	Gas	Hydro, Nuclear	Electricity	Heat	Biomass	Total
PRIMARY PRODUCTION	0.00	0.78		3.41	76.95		0.86	6.42	88.41
Imports	100.48	182.33	36.71	77.31					396.83
Exports	0.94		15.98						16.93
Aviation and marine bunkers			10.06						10.06
Stock variations	0.17	-1.44	3.02	-0.58					1.17
PRIMARY SUPPLY	99.71	181.67	13.69	80.14	76.95		0.86	6.42	459.43
Refineries		188.98	186.49						-2.50
Power plants	55.47	4.21	20.21	52.75	76.95	91.53		3.72	-121.79
Own use, losses *	-0.07	11.84	-14.53	5.75		-10.10	0.60	-0.17	-6.68
FINAL CONSUMPTION	44.16		165.75	33.13		81.44	1.46	2.53	328.46
Industry	43.28		19.53	7.44		27.00		2.50	99.75
Transport	0.00		74.59			1.61			76.21
Households, services	0.51		29.65	25.32		52.82	1.46	0.03	109.79
Non energy uses	0.37		41.97	0.38					42.72

\* Including returns and transfers and heating plants.

## Prices

Energy prices have become more and more volatile, thus significantly impacting end-users. The Global Energy Market & CO2 database includes a full module on energy prices, both spot prices on major marketplaces, and final prices by category of customer.

### Prices available:

- Spot prices by marketplace, by product
- Import/Export Prices by energy
- End-user Prices&Taxes by sector/by energy
- Price per consumer category (for Europe only)

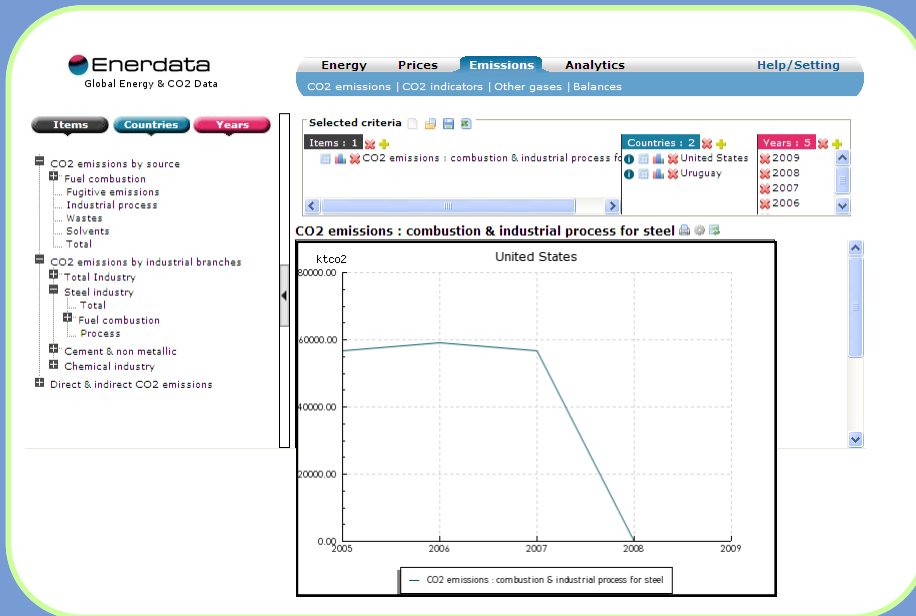
### Prices are available in a large range of units:

- Prices in national currency
- Prices inclusive taxes, exclusive taxes
- Prices in US\$
- Prices in €
- Constant prices (US\$05, € 05)
- Prices at ppp (purchasing power parity)
- Prices in energy units (US\$/toe, €/toe)

*Electricity prices are only available for a limited set of countries (see country list on page 6)*

# Emissions

The Global Energy Market & CO2 database provides detailed CO2-energy emissions, by fuel and by sector. The module is an essential tool for monitoring GHG emissions evolution, measuring the relative forces behind this evolution (i.e. economic and demographic growth, energy efficiency, market shares of energy products) and evaluating climate change policy achievements



### CO2 emissions:

- by source
- by industrial branches
- direct & indirect CO2 emissions

### CO2 indicators:

- Distance to target for GHG
- CO2 emission per capita
- Average CO2 emission factor
- CO2 per unit of GDP
- CO2 per kWh

### Balances:

- CO2 balance
- Industry: fuel combustion & process
- Direct & indirect CO2 emissions
- GHG balance

## Data compilation process

Enerdata has developed an extensive international network of the best data sources in the energy industry, to constantly enhance the level of market data coverage and provide the most recent statistics available. More than 200 data sources are compiled.

### Primary data sources

- IEA
- UN
- World Bank
- IMF
- World Coal Institute
- Cedigaz
- ...

### Regional Organisations

- Eurostat
- Eurelectric
- Eurogas
- Cedigaz
- OPEC
- OAPEC
- UCTE
- OLADE
- ADB
- APERC
- Euracoal
- Cepal

### National Organisations

More than 120 data sources:

- National statistical institutions
- Ministries
- Regulators
- TSOs
- Banks
- Private sources

Data network with local correspondents:

- More than 100 partners
- About 60 countries

## Energy accounting methodology

The methodology and definitions used by Enerdata are the same as that of IEA and Eurostat. Energy statistics in physical units are converted in common units, ktoe or Mtoe, on the basis of different coefficients.

# Countries covered

## EUROPE

### EU-27

Austria  
Belgium  
Bulgaria  
Cyprus  
Czech Republic  
Denmark  
Estonia  
Finland  
France  
Germany  
Greece  
Hungary  
Ireland  
Italy  
Latvia  
Lithuania  
Luxembourg  
Malta  
Netherlands  
Poland  
Portugal  
Romania  
Slovak Republic  
Slovenia  
Spain  
Sweden  
United Kingdom

### OTHER EUROPE

Albania\*  
Bosnia-Herzegovina  
Croatie  
Iceland\*  
Macedonia\*  
Norway  
Serbia\*  
Switzerland

## AMERICA

### NORTH AMERICA

Canada  
United States

### CENTRAL AMERICA AND MEXICO

Belize\*  
Costa Rica  
El Salvador  
Guatemala  
Honduras  
Mexico  
Nicaragua  
Panama

### SOUTH AMERICA

Argentina  
Bolivia  
Brazil  
Chile  
Colombia  
Ecuador  
Guyana  
Paraguay  
Peru  
Suriname  
Uruguay  
Venezuela

### AMERICA (CARIBBEAN)

Barbados  
Cuba  
Dominican Rep.  
Grenada  
Haiti  
Jamaica  
Trinidad

## ASIA

### ASIA

Afghanistan\*  
Bangladesh  
Bhutan\*  
Brunei\*  
Cambodia  
China  
Hong-Kong\*  
India  
Indonesia  
Japan  
Lao  
Macau\*  
Malaysia  
Mongolia\*  
Myanmar (ex Burma)\*  
Nepal\*  
Pakistan  
Philippines  
Singapore  
South Korea  
Sri-lanka  
Taiwan  
Thailand  
Vietnam

### PACIFIC

Australia  
Fiji Islands\*  
New Zealand  
Papua New Guinea\*  
Samoa (Western)\*  
Tonga\*

## AFRICA

### NORTH AFRICA

Algeria  
Egypt  
Libya\*  
Morocco  
Tunisia

### SUB-SAHARIAN AFRICA

Angola\*  
Benin\*  
Botswana\*  
Burkina Faso  
Burundi\*  
Cameroon\*  
Cape Verde\*  
Central African Rep.\*  
Chad\*  
Congo  
Congo DR\*  
Cote d'Ivoire  
Djibouti\*  
Ethiopia\*  
Gabon\*  
Gambia\*  
Ghana\*  
Guinea  
Guinea-Bissau\*  
Kenya\*  
Lesotho\*  
Liberia\*  
Madagascar  
Malawi\*  
Mali  
Mauritania\*  
Mauritius\*  
Mozambique\*  
Namibia\*  
Niger  
Nigeria\*

Rwanda\*  
Sao Tome & Principe\*  
Senegal\*  
Seychelles\*  
Sierra Leone\*  
South Africa  
Sudan\*  
Tanzania\*  
Togo\*  
Uganda  
Zambia\*  
Zimbabwe\*

### MIDDLE-EAST

Bahrain\*  
Iran  
Israel  
Jordan  
Kuwait\*  
Lebanon  
Oman\*  
Qatar  
Saudi Arabia  
Syria  
United Arab Emirates\*  
Yemen\*

### CIS

Armenia\*  
Azerbaijan  
Belarus\*  
Georgia  
Kazakhstan\*  
Kyrgyz Rep.\*  
Moldova\*  
Russia  
Tajikistan\*  
Turkmenistan\*  
Ukraine\*  
Uzbekistan

\*Countries for which only gasoline and diesel prices are available

## ABOUT ENERDATA

Enerdata is an independent Information & Consulting firm specialising in statistics, modelling and energy efficiency. The company has more than 25 years of experience in economic issues related to midstream and downstream energy at a global level.

Leveraging advanced forecasting models and quantitative databases, the Enerdata teams of skilled economists, analysts, engineers, industry and IT specialists bring innovative expertise to address complex political, economic and financial issues.

## HOW TO SUBSCRIBE?

A 12 month subscription allows you online access to continuously updated information.

Available subscription options:

- 1 to 3 user license
- Department license
- Group license

Please contact our commercial team to subscribe to Global Energy Market & CO2 Data.

Contact:  
[knowledge@enerdata.net](mailto:knowledge@enerdata.net)

T: +44 207 183 4475  
F: +44 207 183 8445