

Global Energy & CO₂ Data

Comprehensive and up-to-date online database
for energy supply & demand and GHG emissions

The **Global Energy & 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 and 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?



- More than 200 premium sources in a single database
- Consistent & intuitive interface, with Excel data exports
- All energies covered
- 184 countries covered
- 24/7 online access
- Annual data from 1970 to 2010
- Global supply, demand, prices, indicators, and GHG emissions by sector
- Continuous updates



Who needs Global Energy & CO2 Data?



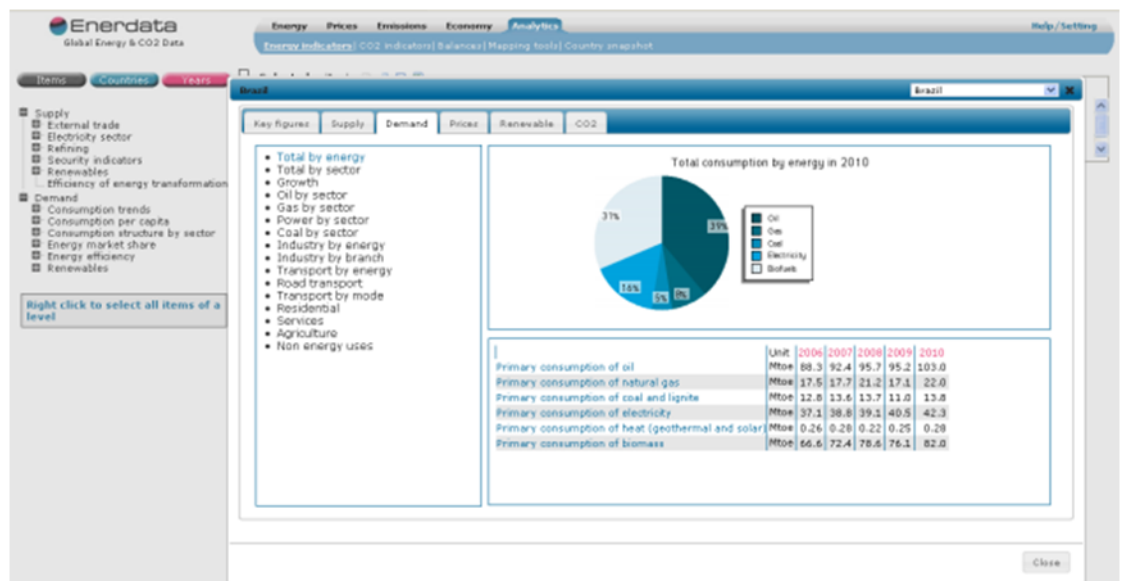
ORGANISATIONS

- Oil and gas companies
- Utilities
- Energy companies
- Equipment manufacturers
- Consulting firms
- Universities and research centres

USERS

- Strategic and business planners
- Marketing managers
- Economists
- Business developers
- Consultants
- Professors, librarians, and researchers

Informative Country Snapshot



Key Features

- **New!** 2010 industry data
- 24/7 online access
- monthly updates
- 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 (2500 data series): capacities & reserves, supply & demand, market prices, socio-economic data
- Energy balances by country, by energy source
- CO2 emissions from combustion, by fuel, and by activity
- CO2 emissions from industry process and by industry branch
- CH4, N2O, PFC, and SF6 emissions data included

Key Benefits

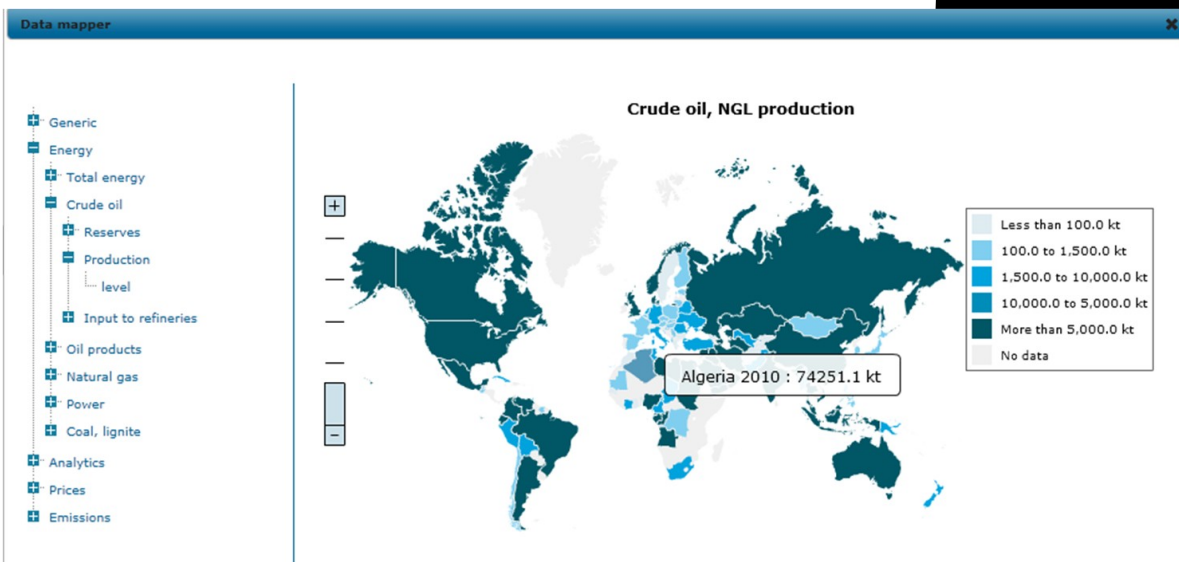
- Access more than 200 data sources through 1 database
- Benefit from reliable data provided by our experienced energy statisticians
- The most recent energy market data available
- Easy understanding of any energy market in a snapshot
- Observation of trends by energy, sector, or activity
- Energy markets benchmarking
- Country trends benchmarking
- Quick data retrieval and analysis through advanced interface
- No break in time series for easier data modelling
- Advanced data search
- Direct premium support from our data specialists
- Emissions data in line with institutional guidelines

Intuitive Online Interface



NEW!

- Loading time is 3x faster than before
- Explicit menu bar topics
- Large display for query results
- Direction selection of a country's series on query result display
- Socio-economic data



Data Mapper

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

Advanced Analytical Tools

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



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

Energy Balances

- > Detailed overall energy balances
- > Oil balance by product
- > Coal balance by product
- > Electricity balance by source
- > Renewable balance by source
- > Biomass balance by product

Energy Market Indicators

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

Economic Data

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

Energy balance - Japan - 2010

Mtoe	Coal, Lignite	Crude oil	Oil products	Gas	Hydro, Nuclear	Electricity	Heat	Biomass	Total
PRIMARY PRODUCTION	0.00	0.68		3.28	87.46		0.82	5.14	97.38
Imports	110.76	187.00	43.21	84.01					424.99
Exports	-0.64		-17.48						-18.12
Aviation and marine bunkers			-10.31						-10.31
Stock variations	-0.67	-1.01	-3.97	0.16				0.00	-5.50
PRIMARY CONSUMPTION	109.45	186.66	11.46	87.45	87.46		0.82	5.14	488.44
Refineries		-185.62	180.56						-5.06
Power plants	-57.50	-3.27	-14.36	-55.38	-87.46	91.61		-2.29	-128.65
Own use, losses *	-7.85	2.55	-10.17	2.45		-9.99	0.59	-0.11	-22.54
FINAL CONSUMPTION	44.10	81.10	167.80	34.52		81.62	1.41	2.74	332.19
Industry	42.78		16.52	8.24		26.64		2.72	96.89
Transport	0.00		76.21			1.61			77.82
Households, services	0.73		32.70	25.93		53.37	1.41	0.02	114.16
Non energy uses	0.59		42.38	0.36					43.33

* Including returns and transfers and heating plants.

Prices

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

Prices available:

- > Spot prices by marketplace, by product
- > Import/Export prices by energy (1)
- > End user prices & taxes by sector/by energy (2)
- > Price per consumer category (for Europe only)

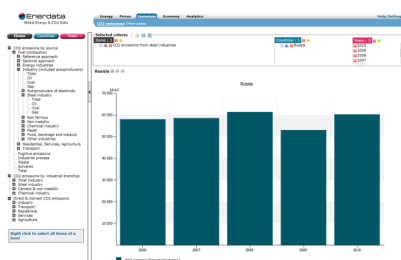
- (1) Only available for main importing/exporting countries
- (2) Electricity prices are only available for a limited number set of countries (see country list on p. 5)

Prices available in many units:

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

Emissions

The Global Energy & CO2 database provides detailed CO2 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

Balances:

- > CO2 balance
- > industry: fuel combustion & process

CO2 indicators:

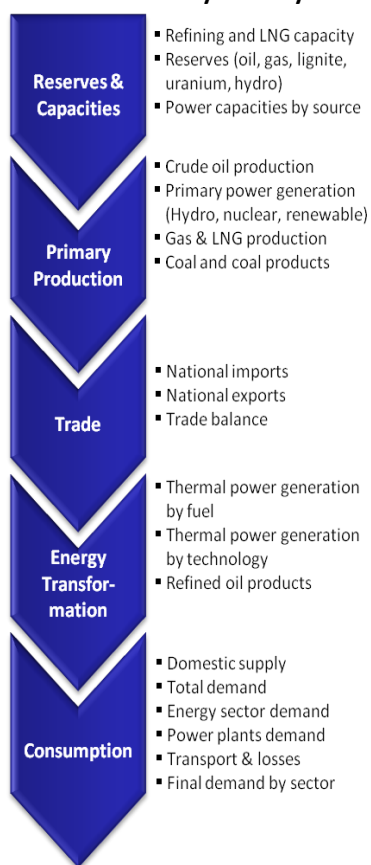
- > distance to target for GHG
- > CO2 emission per capita
- > average CO2 emission factor
- > CO2 per unit of GDP
- > CO2 per kWh

Comprehensive 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.
 - 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

Countries Covered

EUROPE 27

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

OTHER EUROPE

Albania*
Bosnia-Herzegovina
Croatia
Iceland*
Macedonia*
Norway
Serbia*
Switzerland
Turkey

NORTH AMERICA

Canada
Mexico
United States

CENTRAL AMERICA

Belize*
Costa Rica
El Salvador
Guatemala
Honduras
Nicaragua
Panama

SOUTH AMERICA

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

CARIBBEAN

Bahamas
Barbados
Bermuda
Cuba
Dominica
Dominican Republic
Grenada
Haiti
Jamaica
NL Antilles & Aruba
St. Lucia
St. Vincent & Grenadines
Trinidad & Tobago

ASIA

Afghanistan*
Bangladesh
Bhutan*
Brunei*
Cambodia
China
Hong Kong*
India
Indonesia
Japan
Laos
Macau*
Malaysia
Maldives
Mongolia*
Myanmar (ex Burma)*
Nepal*
North Korea*
Pakistan
Philippines
Singapore
South Korea
Sri Lanka
Taiwan
Thailand
Vietnam

ASIA-PACIFIC

Australia
Fiji Islands*
Kiribati
New Zealand
Papua New Guinea*
Samos (Western)*
Solomon Islands
Tonga*
Vanuatu

AFRICA

Algeria
Angola*
Benin*
Botswana*
Burkina Faso
Burundi*
Cameroon*
Cape Verde*
Central African Republic*
Chad*
Comoros
Congo
Congo DR*
Cote d'Ivoire
Djibouti*
Egypt
Equatorial Guinea
Eritrea
Ethiopia*
Gabon*
Gambia*
Ghana*
Guinea
Guinea-Bissau*
Kenya*
Lesotho*
Liberia*
Libya*
Madagascar
Malawi*
Mali
Mauritania*
Mauritius*
Morocco
Mozambique*
Namibia*
Niger
Nigeria*
Rwanda*
Sao Tome & Principe*
Senegal*

Seychelles*

Sierra Leone*
Somalia
South Africa
Sudan*
Swaziland
Tanzania*
Togo*
Tunisia
Uganda
Zambia*
Zimbabwe*

MIDDLE-EAST

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

CIS

Armenia*
Azerbaijan
Belarus*
Georgia
Kazakhstan*
Kyrgyzstan*
Moldova*
Russia
Tajikistan*
Turkmenistan*
Ukraine*
Uzbekistan

* Countries for which only gasoline and diesel prices are available

Our 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.



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.

How to subscribe?

This service is available through a 12-month subscription, for a limited number of registered users.

Please contact our commercial team to subscribe:

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About Enerdata

Enerdata is an independent information and consulting company specialising in the energy sector. Enerdata experts and analysts have incomparable experience in the analysis of energy markets and issues of the energy industry at a global level. Enerdata has been developing and maintaining powerful data & research services for more than 25 years.

Other information services available:

Global Energy Research

110 country reports for a comprehensive view of the local energy landscape

EnerFuture

Forecast of demand & prices for all energies and CO2 emissions by sector to 2030 as well as power mix by fuel

EnerFuture MACCs

CO2 Marginal Abatement Cost Curves

European Utilities Watch

A competitive benchmark of all major European utilities

Odyssee

Detailed energy consumption by end-use and energy efficiency indicators by branch

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