



Instant access to energy and emissions forecasts

Based on the globally recognised POLES Model, EnerFuture is used by major energy companies and governments for strategic policy planning.

EnerFuture provides **annual energy forecasts** up to 2040. Our service offers a clear insight into **future energy demand, prices** and **GHG emissions** by energy source or by sector at a country and/or regional level. EnerFuture aims to provide a consistent set of data reflecting the factors that will impact and shape the future energy context.

It provides a useful tool for companies and institutions to anticipate the evolution and change of their business environment and build up appropriate business strategies.

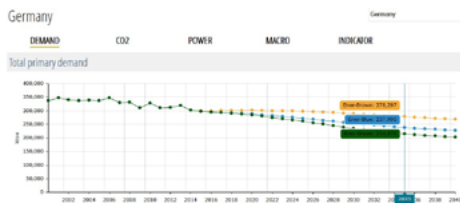
Why Subscribe?

- Annual energy demand, prices & emissions forecasts up to 2040
- Detailed projections for all energy sources
- Forecasts categorized by sector
- Filter capability for global, regional or country view
- Three contrasted energy and climate scenarios
- Consistency in global forecasts by means of regional balances
- Interactive and user-friendly interface
- Annual scenarios update

Service overview:

- Global coverage (69 countries/regions)
- Historic annual data from the year 2000
- Annual forecasts of the global energy market until **2040**
- Demand and price forecasts (by sector and energy source)
- GHG emissions forecasts (by sector)
- Power mix forecasts (capacities and production by technology) in five-year steps
- Country ranking
- **Three detailed scenarios** offering contrasted views on technological development, on effort in developing low-carbon energy sources and on fossil fuels supply
- Demand, CO₂ and REN indicators
- Macroeconomic drivers
- Data export in .csv format to integrate your own databases and models

New: Country Snapshot



Insightful outputs at a glimpse!

EnerFuture Scenarios

EnerFuture's scenarios are yearly updated to take into account recent events



Ener-Green

This scenario explores the implications of more stringent climate policies with countries fulfilling their NDC commitments and then regularly revising their emissions goals. Ambitious efforts are made to phase out fossil fuel subsidies and to enable a strong deployment of renewables. Under this new green deal, world emissions are divided by 2 by 2050, the global temperature increase is limited at +2°C.



Ener-Blue

Ener-Blue provides an outlook of the energy system based on the successful achievement of the 2030 NDCs' targets as announced at the COP21 and revised since then. Global energy demand increases, driven by the growth in China and other emerging countries, but NDCs enable to control the energy demand growth and CO₂ emissions until 2030. These efforts are compatible with a 3-4°C objective.



Ener-Brown

This scenario describes a world of durably low fossil fuel energy prices; exploitation and production of unconventional oil and gas resources intensifies and expands globally, however confirmed energy commitments in some regions as well as technological innovation foster the deployment of renewables. Without a global agreement, global CO₂ emissions soar towards a +6 °C temperature increase.

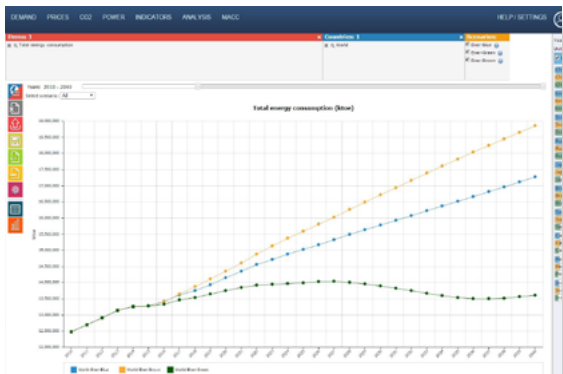
Outputs:

Energies/Emissions: oil, gas, coal, electricity, biomass and GHG emissions (6 Kyoto gases)

Demand: Total demand and demand by sector

Power: Production and capacities by energy type: fossil energies, nuclear, renewables (wind, solar, etc.)

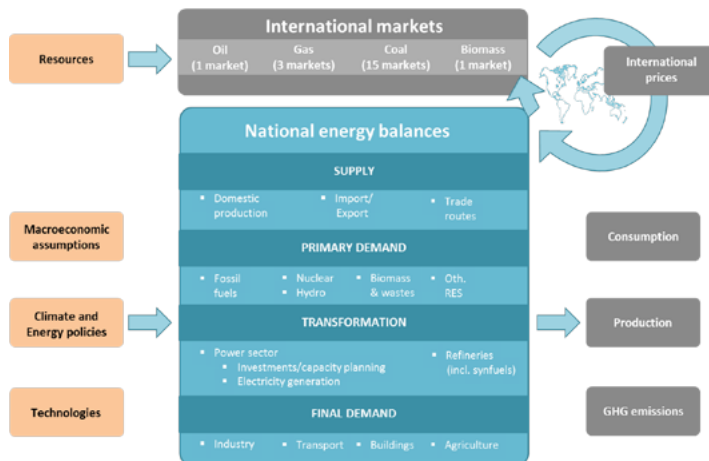
Sector: Power production, industry, transport and residential/services/agriculture



The POLES model

Prospective outlook on long-term energy systems

The **POLES model** is an internationally recognized techno-economic model. The simulation occurs on a year-to-year basis, with endogenous projection of energy prices. It provides a complete accounting of energy demand/supply of numerous energy vectors, associated technologies and greenhouse gases emissions and enables to customize and model possible carbon constraints levels, energy resources or technological assumptions .



Model features

- ⊕ Disaggregation into 15 energy demand sectors
- ⊕ Energy supply: Identification of key market suppliers for oil and gas
- ⊕ Oil and gas sectors: Discoveries and reserves for 87 producers
- ⊕ International trade: Flows of energy products for oil and natural gas
- ⊕ About 40 energy generation technologies:
 - Nearly 30 power generation technologies (incl. conventional, new and renewable power generation)
 - Over 10 hydrogen production technologies
- ⊕ GHG emissions and Abatement Costs (region, country and sector basis, sub-sector decomposition for CO₂)
- ⊕ Assessment of the impacts of climate change policies on energy systems
- ⊕ Endogenous international energy prices and markets

Optional module: Marginal Abatement Cost Curves (MACCs)

Our supplementary module, **GHG Marginal Abatement Cost Curves (MACCs)**, reveals the potential emission reductions that can be made across economic sectors and respective costs to reach targets. Please [contact us](#) for more information.

About Enerdata

Enerdata is an energy intelligence and consulting company. Our experts help you to tackle key energy and climate issues and make sound strategic and business decisions. We provide research, solutions, consulting and training to key energy actors worldwide.

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Enerdata

Enerdata Clients Include:



Enerdata Information Services

Global Energy & CO₂ Data: Regularly updated global energy market database providing supply, demand & prices for all energy sources by sector and GHG emissions covering 186 countries from 1970 onwards.

Global Energy Research: More than 110 country reports. Daily news feed included.

EnerMonthly: Monthly update with detailed information regarding production, imports, exports and consumption for over 40 OECD and non OECD countries.

EnerFuture: Annual forecasts until 2040 for energy demand & prices for all energy sources & CO₂ emissions by sector. Power generation forecasts by fuel source are also included. Energy forecasts are based on the globally recognised POLES model.

EnerFuture MACCs: Assess climate policies, evaluate cost and efficiency, and simulate carbon markets with our CO₂ Marginal Abatement Cost Curves tool.

Odyssee: Unique database on energy consumption by end-use for 28+ EU members. Exclusive energy efficiency indicators.

Country Energy Demand Forecasts: Energy demand forecasts of oil, gas, coal and power consumption by country, by sector and by usages up to 2030.

Power Plant Tracker: Screen, monitor and analyse the development of power generation assets. Includes powerful embedded analytics. Provides exclusive insight on leveled costs of electricity and capital expenditure through the optional module: CAPEX & LCOE.

World Refinery Database: New and existing refineries monitoring.

World LNG Database: All key information and data about world LNG markets.