Global, Regional & Country-level Energy and Emissions Forecasts through 2040 – Including Non-OECD Countries

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

EnerFuture provides annual projections through 2040, offering clear insight into future energy demand, prices and GHG emissions by energy source or by sector, at the country and regional levels.

EnerFuture brings a consistent set of data on the factors that will impact and shape the future of energy, including energy markets, macro-economy, and long-term climate policies. Use EnerFuture to anticipate evolutions in your environment and build the appropriate business strategies.

Why Subscribe?

- Annual energy demand, prices & emissions projections through 2040
- Historical data through 2017 – the latest available figures
- Detailed projections for all energy sources
- Insightful analyses of the evolution of international oil, gas and coal prices
- Forecasts categorized by sector
- Global, regional or country views
- Three contrasted energy and climate scenarios
- Consistency in global forecasts by means of regional balances
- Interactive, user-friendly interface
- Annual data and scenario updates
EnerFuture Scenarios

Updated annually to take into account recent events

Ener-Base
- Lack of support for GHG emission mitigation, affecting the entire energy system over a long period.
- Energy demand increases globally, driven by economic and population growth.
- Technological advances and fuel diversification (namely a moderate renewable expansion) slightly curtail the impact on emissions.
- +5°C to +6°C temp. increase

Ener-Blue
- Based on the successful achievement of the 2030 NDCs announced in the 2015 Paris agreement and since revised.
- Sustained growth in emerging countries is a powerful driver of global energy demand, but NDCs play a key role in controlling the pace of growth.
- +3°C to +4°C temp. increase

Ener-Green
- More stringent climate policies than currently in place
- Countries fulfil NDCs and regularly revise emissions goals
- Ambitious climate trajectories specific to each region, built using a new methodology incorporate effort-sharing regulations.
- Significant improvements in energy efficiency & renewables
- +1.5°C to +2°C temp. 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

Prices: International energy price evolutions
**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 the customization and modeling of possible carbon constraints levels, energy resources or technological assumptions.

**Features of POLES**

- **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)
  - More than 10 **hydrogen** production technologies
- **GHG** Emissions and Abatement Costs (by region, country & sector; 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 for emissions reductions 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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  - CPP Investment Board
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  - EY

- International Organizations and Government Bodies
  - ADB
  - World Energy Council
  - GECF
  - World Bank Group
  - IRENA

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  - MIT
  - Fraunhofer
  - KEEI
  - UNSW
  - KAPSARC
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Geographic Coverage

EUROPE
- Austria
- Belgium
- Bulgaria
- Croatia
- Czech Republic
- Denmark
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Italy
- The Netherlands
- Norway
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom
- Baltic States
- Europe aggregates
  - Europe
  - European Union
  - Baltic States (Estonia, Latvia and Lithuania)

AMERICAS
- Canada
- United States
- Mexico
- Brazil
- Argentina
- Chile

- Americas aggregates:
  - North America
  - Latin America
  - Central America
  - Mexico and the Caribbean
  - Central America and the Caribbean
  - South America
  - South America excluding Brazil, Argentina, and Chile
  - Includes Colombia, Venezuela, Ecuador, Peru, Bolivia, Suriname, Guyana, Paraguay, Uruguay

ASIA
- India
- China
- Indonesia
- Japan
- South Korea
- Malaysia
- Thailand
- Vietnam

- Asia aggregates:
  - Asia
  - South Asia (excluding India)
  - Rest of Southeast Asia

PACIFIC
- Australia
- Pacific (aggregate)
- OECD Asia and Pacific (aggregate)

CIS
- Russia
- Ukraine

- CIS aggregates:
  - CIS
  - Other CIS (Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Uzbekistan)

AFRICA
- Algeria-Libya
- Egypt
- Morocco-Tunisia
- South Africa

- Africa aggregates:
  - Africa
  - Northern Africa
  - Sub-Saharan Africa (excluding South Africa)

MIDDLE EAST
- Middle-East
- Gulf Countries
- Mediterranean (excl. Gulf countries)

*Note: Price Forecast unavailable

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