# IEA Market Report Series Renewables 2026

# Documentation

International Energy Agency



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# Overview

This document provides information regarding the dataset for *Renewables 2026: Analysis and Forecast to 2031.*

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# Renewable electricity

## Geographical coverage

The following countries, regions and aggregates are covered in the electricity dataset.

### Countries

| Code region | Region |
|---|---|
| ARGENTINA | Argentina |
| AUSTRALI | Australia |
| AUSTRIA | Austria |
| BELGIUM | Belgium |
| BRAZIL | Brazil |
| BULGARIA | Bulgaria |
| CANADA | Canada |
| CHILE | Chile |
| CHINA | China |
| COLOMBIA | Colombia |
| COSTARICA | Costa Rica |
| CROATIA | Croatia |
| CZECH | Czechia |
| DENMARK | Denmark |
| EGYPT | Egypt |
| ETHIOPIA | Ethiopia |
| FINLAND | Finland |
| FRANCE | France |
| GERMANY | Germany |
| GREECE | Greece |
| HUNGARY | Hungary |
| INDIA | India |
| INDONESIA | Indonesia |

| Code region | Region |
|---|---|
| IRELAND | Ireland |
| ISRAEL | Israel |
| ITALY | Italy |
| JAPAN | Japan |
| KENYA | Kenya |
| KOREA | Korea |
| MEXICO | Mexico |
| MOROCCO | Morocco |
| NETHLAND | Netherlands |
| NIGERIA | Nigeria |
| NORWAY | Norway |
| NZ | New Zealand |
| PAKISTAN | Pakistan |
| PHILIPPINE | Philippines |
| POLAND | Poland |
| PORTUGAL | Portugal |
| RUSSIA | Russia |
| SAUDIARABI | Saudi Arabia |
| SENEGAL | Senegal |
| SERBIA | Serbia |
| SINGAPORE | Singapore |
| SLOVAKIA | Slovak Republic |
| SOUTHAFRIC | South Africa |
| SPAIN | Spain |
| SWEDEN | Sweden |
| SWITLAND | Switzerland |
| TANZANIA | Tanzania |
| THAILAND | Thailand |
| TURKEY | Türkiye |
| UAE | United Arab Emirates |
| UK | United Kingdom |
| UKRAINE | Ukraine |

| Code region | Region |
|---|---|
| USA | United States |
| VIETNAM | Viet Nam |

## Regions and aggregates

| Code region | Region | Definition |
|---|---|---|
| AFRICA | Africa | Includes Algeria, Angola, Benin, Botswana, Cameroon, Congo, DR Congo, Cote d'Ivoire, Egypt, Eritrea, Ethiopia, Gabon, Ghana, Kenya, Libya, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Other Africa, Senegal, South Africa, South Sudan, Sudan, Tanzania, Togo, Tunisia, Zambia, and Zimbabwe. |
| ADVECON | Advanced economies | Includes Australia, Austria, Belgium, Bulgaria, Canada, Chile, Colombia, Costa Rica, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Latvia, Lithuania, Luxembourg, Malta, Mexico, Netherlands, Norway, New Zealand, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Türkiye, United Kingdom, and United States. |
| ASEAN | ASEAN | Includes Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand and Vietnam. |
| APAC | Asia (exc. China) and Pacific | Includes Australia, Bangladesh, Brunei Darussalam, Cambodia, India, Indonesia, Japan, Korea, Korea, DPR, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, Other Asia, Pakistan, Philippines, Singapore, Sri Lanka, Chinese Taipei, Thailand, and Viet Nam. |

| Code region | Region | Definition |
|---|---|---|
| DEVECON | Emerging markets and developing economies (excl. China) | Includes Albania, Algeria, Angola, Argentina, Azerbaijan, Bangladesh, Belarus, Bolivia, Brazil, Cambodia, Dominican Republic, Ecuador, Egypt, Ethiopia, Ghana, India, Indonesia, Iran, Iraq, Jordan, Kazakhstan, Kenya, Kuwait, Kyrgyzstan, Lao People's Democratic Republic, Libya, Malaysia, Moldova, Morocco, Namibia, Nepal, Nigeria, Oman, Other Africa, Other ASEAN, Other Asia, Other Eurasia 1, Other Eurasia 2, Other Latin America, Other Middle East, Pakistan, Panama, Peru, Philippines, Qatar, Russia, Saudi Arabia, Senegal, Serbia, Singapore, South Africa, Chinese Taipei, Tanzania, Thailand, Tunisia, Turkmenistan, United Arab Emirates, Ukraine, Uzbekistan, and Viet Nam. |
| EURASIA | Eurasia | Includes Armenia, Azerbaijan, Bosnia and Herzegovina, Georgia, Gibraltar, Kazakhstan, Kosovo, Kyrgyzstan, Montenegro, Republic of North Macedonia, Russia, Serbia, Tajikistan, Turkmenistan, and Uzbekistan. |
| EUROPE | Europe | Includes Austria, Belarus, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Türkiye, United Kingdom, and Ukraine. |
| EU | European Union | Includes Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, |

| Code region | Region | Definition |
|---|---|---|
| | | Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, and Sweden. |
| G20 | G20 | Includes Argentina, Australia, Brazil, Canada, France, Germany, India, Indonesia, Italy, Japan, Korea, Mexico, China, Russian Federation, Saudi Arabia, South Africa, Türkiye, United Kingdom, United States, and the rest of EU countries |
| G7 | G7 | Includes Canada, France, Germany, Italy, Japan, United Kingdom, United States, and the rest of EU countries. |
| LAM | Latin America | Includes Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Curacao, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Other Latin America, Panama, Paraguay, Peru, Trinidad and Tobago, Uruguay and Venezuela. |
| MIDDLEEAST | Middle East | Includes Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, and Yemen. |
| MENA | Middle East and North Africa | Includes Algeria, Bahrain, Egypt, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Qatar, Saudi Arabia, Syria, Tunisia, United Arab Emirates, and Yemen. |
| NAFR | North Africa | Includes Algeria, Egypt, Libya, Morocco, and Tunisia. |

| Code region | Region | Definition |
|---|---|---|
| NAM | North America | Includes Canada, Mexico, and United States. |
| SSAFR | Sub-Saharan Africa | Includes Angola, Benin, Botswana, Cameroon, Congo, DR Congo, Cote d'Ivoire, Eritrea, Ethiopia, Gabon, Ghana, Kenya, Mauritius, Mozambique, Namibia, Niger, Nigeria, Other Africa, Senegal, South Africa, South Sudan, Sudan, Tanzania, Togo, Zambia, and Zimbabwe. |
| WORLD | World | Can be calculated as the aggregate of the following elements: Sub-Saharan Africa, Middle East and North Africa; Eurasia; Europe; Asia (exc. China) and Pacific; Latin America; China; United States and Canada<br><br>Includes Albania, Algeria, Angola, Argentina, Armenia, Australia, Austria, Azerbaijan, Bahrain, Bangladesh, Belarus, Belgium, Benin, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, Brunei Darussalam, Bulgaria, Cambodia, Cameroon, Canada, Chile, China, Colombia, Congo, DR Congo, Costa Rica, Cote d'Ivoire, Croatia, Cuba, Curacao, Cyprus, Czech Republic, Denmark, Dominican Republic, Ecuador, Egypt, El Salvador, Eritrea, Estonia, Ethiopia, Finland, France, Gabon, Georgia, Germany, Ghana, Gibraltar, Greece, Guatemala, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Korea, Korea, DPR, Kosovo, Kuwait, Kyrgyzstan, Latvia, Lebanon, Libya, Lithuania, Luxembourg, Malaysia, Malta, Mauritius, Mexico, Moldova, Mongolia, Montenegro, Morocco, Mozambique, Myanmar, Namibia, |

| Code region | Region | Definition |
|---|---|---|
| | | Nepal, Netherlands, Nicaragua, Niger, Nigeria, Netherlands, Norway, New Zealand, Oman, Other Africa, Other Asia, Other Latin America, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Senegal, Serbia, Singapore, Slovak Republic, Slovenia, South Africa, Spain, Sri Lanka, South Sudan, Sudan, Sweden, Switzerland, Syria, Chinese Taipei, Tajikistan, Tanzania, Thailand, Togo, Trinidad and Tobago, Tunisia, Türkiye, Turkmenistan, United Arab Emirates, United Kingdom, Ukraine, Uruguay, United States, Uzbekistan, Venezuela, Viet Nam, Yemen, Zambia, and Zimbabwe. |

# Technologies

The renewable electricity dataset includes 18 technology groupings, many made up of another sub-groupings. These are outlined in the table below.

| Code Tech | Tech | Definition |
|---|---|---|
| BIO | Bioenergy | Capacity includes capacity from solid, liquid, and gaseous biomass and municipal waste (renewable and non-renewable). It does not include plants that co-fire biomass with fossil fuels; though fossil fuel to biomass conversions is included in this forecast, reported capacity data from IEA statistics (2017 and earlier data points) may not include bioenergy capacity converted from fossil fuels, particularly in mixed plants.<br><br>Generation from bioenergy includes generation from solid, liquid, and gaseous |

| Code Tech | Tech | Definition |
|---|---|---|
| | | biomass (including co-fired biomass) and the renewable portion of municipal waste. |
| HYDRO | Hydro | Capacity includes all types of hydropower.<br><br>Generation excludes pumped storage hydropower. |
| HYDROCONV | Conventional Hydro | This element refers to electricity generated by hydropower plants that use flowing or falling water to drive turbines and produce electricity. It includes systems such as reservoir dams and run-of-river facilities but excludes pumped-storage hydropower. |
| OCEAN | Ocean | This element includes wave, tide, and ocean technologies. |
| CSP | Concentrating solar power | This element includes concentrating solar power (CSP) plants, which use mirrors to concentrate sunlight and generate heat that drives a steam turbine, with or without thermal storage. |
| GEO | Geothermal | This element includes geothermal power plants that generate electricity from the heat of the Earth, such as dry steam, flash steam and binary cycle plants. |
| PSH | Pumped storage hydropower | This element refers to pumped storage hydropower plants, which store energy by pumping water to an upper reservoir and release it through turbines to generate electricity. It is included in capacity only; generation excludes pumped storage hydropower. |
| PV | Solar PV | Capacity for grid-connected solar PV (including distributed PV) is counted at the time that the grid connection is made, and off-grid solar PV systems are included at the time of the installation. |

| Code Tech | Tech | Definition |
|---|---|---|
| PVCOMM | PV commercial systems | Includes installations with capacity between 10 kW and 1 MW. |
| PVDIST | PV distributed systems | Distributed capacity solar PV is classified into three main categories:<br><br>1) residential (0 to 10 kW)<br><br>2) commercial and industrial (10 kW to 1,000 kW)<br><br>3) off-grid applications (such as solar home systems, small commercial applications, and mini-grids).<br><br>These groupings take not only size into account, but the purpose of the installation and the availability of data. |
| PVOFF | PV off-grid | This element includes applications such as solar home systems, small commercial applications, and mini grids. |
| PVRES | PV residential systems | Includes installations with capacity less than 10 kW |
| PVUT | PV utility-scale systems | Includes installations with capacity higher than 1 MW |
| TOTAL | Total | Total renewable capacity and generation equals the sum of bioenergy, hydropower (including pumped storage for capacity), onshore and offshore wind, solar PV, solar CSP, geothermal, and ocean technologies. |
| VRE | VRE | This element equals the sum of PV and WIND |
| WIND | Wind | This element equals the sum of WINDON and WINDOFF |

| Code Tech | Tech | Definition |
|---|---|---|
| WINDOFF | Offshore wind | This element includes offshore wind capacity regardless of the final use of the electricity generated. |
| WINDON | Onshore wind | This element includes onshore wind capacity regardless of the final use of the electricity generated. |

# Time period

Data available from 1990 to 2031.

# Cases

This dataset contains Main and Accelerated cases. The Main case is based on current policy and market conditions, while the Accelerated case assumes changes in the policy or market to address current challenges.

# Sources

Renewable electricity generation data up to 2025, and capacity until 2024, for OECD countries is from Renewables Information 2026, at https://www.iea.org/data-and-statistics/data-product/renewables-information.

Renewable capacity data is based on a variety of sources that are technology dependent.

For hydropower, bioenergy, and geothermal, 2025 capacity is based largely upon S&P Market Intelligence (2026). For CSP, the 2025 capacity data is based largely upon BNEF (2026).

For solar PV, onshore wind, offshore wind, and ocean capacity, a variety sources are used ranging from the IEA Technology Collaboration Platforms, BNEF (2026), IRENA (2026) and in-country analysis and project pipelines.

# Renewable transport

The renewable transport dataset includes biofuel production, consumption, and feedstock demand in the transport sector for 24 countries and 9 regions.

## Geographical coverage

The following countries, regions and aggregates are covered in the transport dataset.

### Countries

| Code_Region | Region | Production and Consumption | Feedstocks |
|---|---|---|---|
| ARGENTINA | Argentina | X | X |
| AUSTRALI | Australia | X | |
| AUSTRIA | Austria | X | |
| BELGIUM | Belgium | X | |
| BRAZIL | Brazil | X | X |
| CANADA | Canada | X | X |
| CHINA | China | X | X |
| COLOMBIA | Colombia | X | X |
| FRANCE | France | X | X |
| GERMANY | Germany | X | X |
| HUNGARY | Hungary | X | |
| INDIA | India | X | X |
| INDONESIA | Indonesia | X | X |
| ITALY | Italy | X | |
| MALAYSIA | Malaysia | X | X |
| NETHLAND | Netherlands | X | X |
| PARAGUAY | Paraguay | X | |
| PHILIPPINE | Philippines | X | |
| POLAND | Poland | X | |
| SINGAPORE | Singapore | X | X |

| Code_Region | Region | Production and Consumption | Feedstocks |
|---|---|---|---|
| SPAIN | Spain | X | X |
| THAILAND | Thailand | X | X |
| UK | United Kingdom | X | |
| USA | United States | X | X |

## Regions and aggregates

| Code region | Region | Definition |
|---|---|---|
| AFRICA | Africa | Includes Algeria, Angola, Benin, Botswana, Cameroon, Congo, DR Congo, Cote d'Ivoire, Egypt, Eritrea, Ethiopia, Gabon, Ghana, Kenya, Libya, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Other Africa, Senegal, South Africa, South Sudan, Sudan, Tanzania, Togo, Tunisia, Zambia, and Zimbabwe. |
| APAC | Asia (exc. China) and Pacific | Includes Australia, Bangladesh, Brunei Darussalam, Cambodia, China, India, Indonesia, Japan, Korea, Korea, DPR, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, Other Asia, Pakistan, Philippines, Singapore, Sri Lanka, Chinese Taipei, Thailand, and Viet Nam. |
| EUROPE | Europe | Includes Austria, Belarus, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Türkiye, United Kingdom, Ukraine. |
| G7 | G7 | Includes Canada, France, Germany, Italy, Japan, United Kingdom, United States. |
| G20 | G20 | Includes Argentina, Australia, Brazil, Canada, France, Germany, India, Indonesia, Italy, Japan, Korea, Mexico, China, Russian Federation, Saudi Arabia, South Africa, Türkiye, United Kingdom, United States, and the rest of EU countries Includes Canada, France, Germany, Italy, Japan, United Kingdom, United States, and the rest of EU countries. |

| Code region | Region | Definition |
|---|---|---|
| LAM | Latin America | Includes Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Curacao, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Nicaragua, Other Latin America, Panama, Paraguay, Peru, Trinidad and Tobago, Uruguay and Venezuela. |
| MIDDLEEAST | Middle East | Includes Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, Yemen. |
| NAM | North America | Includes Canada, Mexico, and United States. |
| WORLD | World | Includes North America, Latin America, Europe, APAC, and Middle East.<br><br>Albania, Algeria, Angola, Argentina, Armenia, Australia, Austria, Azerbaijan, Bahrain, Bangladesh, Belarus, Belgium, Benin, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, Brunei Darussalam, Bulgaria, Cambodia, Cameroon, Canada, Chile, China, Colombia, Congo, DR Congo, Costa Rica, Cote d'Ivoire, Croatia, Cuba, Curacao, Cyprus, Czech Republic, Denmark, Dominican Republic, Ecuador, Egypt, El Salvador, Eritrea, Estonia, Ethiopia, Finland, France, Gabon, Georgia, Germany, Ghana, Gibraltar, Greece, Guatemala, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Korea, Korea, DPR, Kosovo, Kuwait, Kyrgyzstan, Latvia, Lebanon, Libya, Lithuania, Luxembourg, Malaysia, Malta, Mauritius, Mexico, Moldova, Mongolia, Montenegro, Morocco, Mozambique, Myanmar, Namibia, Nepal, Netherlands, Nicaragua, Niger, Nigeria, Netherlands, Norway, New Zealand, Oman, Other Africa, Other Asia, Other Latin America, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Senegal, Serbia, Singapore, Slovak Republic, Slovenia, South Africa, Spain, Sri Lanka, South Sudan, Sudan, Sweden, Switzerland, Syria, Chinese Taipei, Tajikistan, Tanzania, Thailand, Togo, Trinidad and Tobago, Tunisia, Türkiye, Turkmenistan, United Arab Emirates, United Kingdom, Ukraine, Uruguay, United States, Uzbekistan, Venezuela, Viet Nam, Yemen, Zambia, and Zimbabwe. |

# Products

The renewable transport dataset includes five biofuel products (ethanol, biodiesel, renewable diesel, biojet fuel and marine biodiesel) and five feedstocks (Sugars, starches, vegetable oils, fats, oils and greases and other residues).

| Code Product | Product | Description |
|---|---|---|
| ETHANOL | Ethanol | Data presented in million litres per year. Ethanol has a calorific value of 21 MJ/litre. |
| BIODIESEL | Biodiesel | Data presented in million litres per year. Biodiesel has a calorific value of 33 MJ/litre. |
| MARBIODIESEL | Marine Biodiesel | Data presented in million litres per year. Marine biodiesel has a calorific value of 33 MJ/litre. |
| RENEWABLED | Renewable diesel | Data presented in million litres per year. Renewable diesel has a calorific value of 34 MJ/litre. |
| BIOJET | Biojet | Data presented in million litres per year. Biojet fuel has a calorific value of 34 MJ/litre. |
| FOGS | Fats, oils and greases | Includes used cooking oil, animal fats and palm oil mill effluent (POME). Data presented in million tonnes per year. |
| OTHERRES | Other residues | Includes wood, agricultural, and municipal waste. Data presented in million tonnes per year. |
| STARCH | Starches | Includes maize, wheat, rice and cassava. Data presented in million tonnes per year. |
| SUGAR | Sugars | Includes sugar cane, B molasses, C molasses and sugar beets. Data presented in million tonnes per year. |
| VEGOILS | Vegetable Oils | Includes soyoil, canola oil, corn oil, palm oil and camelina. Data presented in million tonnes per year. |

# Flows

The renewable transport data set includes three flows, consumption, production and feedstocks.

| Code Flow | Flows | Description |
|---|---|---|
| TES | Consumption | Includes biofuels used within the country in a given year. |
| INDPROD | Production | Includes total domestic biofuel production in a given year. |
| FEEDSTOCKS | Feedstocks | Includes the mass of feedstocks required to support domestic production within a given country for a given year. Feedstocks include sugars, starches, vegetable oils, fats, oils and greases and other residues. |

# Time period

Data available from 2010 to 2031 for all products and flow

# Cases

This dataset contains Main and Accelerated cases. The Main case is based on current policy and market conditions, while the Accelerated case assumes changes in the policy or market to address current challenges.

# Sources

Sources include but are not limited to:

- Agência Nacional do Petróleo, Gás Natural e Biocombustíveis (2026) Dados estatísticos
- Argus (2026) Argus direct.
- Cores (2026) Estadisticas
- Department of Transportation UK (2026) Renewable Fuel Statistics
- Drivkraft Sverige (2025) Volumes
- Energy Information Administration (2026) Monthly Energy Review
- IEA (2026) World Energy Balances.
- IEA (2026) Monthly Oil Data Service
- IEA (2026) World Energy Outlook (forthcoming)

- Ministère de la Transition Écologique, 2025
- Ministerio de Economía - Argentina (2025) Informes mensuales para los biocombustibles
- Statistics Canada, 2026 Monthly Table: 25-10-0081-01 Petroleum product supply and disposition monthly
- Tilastaokeskus (2025) Liikenteen energiankulutus, 1990-2022

# Renewable heat

## Geographical coverage

### Countries

| Code region | Region |
|---|---|
| BRAZIL | Brazil |
| CANADA | Canada |
| CHINA | China |
| INDIA | India |
| JAPAN | Japan |
| KOREA | Korea |
| RUSSIA | Russia |
| USA | United States |
| VIETNAM | Viet Nam |

### Regions and aggregates

| Code region | Region | Definition |
|---|---|---|
| ADVECON | Advanced economies | Includes Australia, Austria, Belgium, Bulgaria, Canada, Chile, Colombia, Costa Rica, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Latvia, Lithuania, Luxembourg, Malta, Mexico, Netherlands, Norway, New Zealand, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Türkiye, United Kingdom, and United States. |
| ASEAN | ASEAN | Includes Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand and Vietnam. |
| APAC | Asia (exc. China) and Pacific | Includes Australia, Bangladesh, Brunei Darussalam, Cambodia, India, Indonesia, Japan, Korea, Korea, DPR, Malaysia, Mongolia, Myanmar, Nepal, New |

| Code region | Region | Definition |
|---|---|---|
| | | Zealand, Other Asia, Pakistan, Philippines, Singapore, Sri Lanka, Chinese Taipei, Thailand, and Viet Nam. |
| DEVECON | Emerging markets and developing economies | Includes Albania, Algeria, Angola, Argentina, Azerbaijan, Bangladesh, Belarus, Bolivia, Brazil, Cambodia, Dominican Republic, Ecuador, Egypt, Ethiopia, Ghana, India, Indonesia, Iran, Iraq, Jordan, Kazakhstan, Kenya, Kuwait, Kyrgyzstan, Lao People's Democratic Republic, Libya, Malaysia, Moldova, Morocco, Namibia, Nepal, Nigeria, Oman, Other Africa, Other ASEAN, Other Asia, Other Eurasia 1, Other Eurasia 2, Other Latin America, Other Middle East, Pakistan, Panama, Peru, Philippines, Qatar, Russia, Saudi Arabia, Senegal, Serbia, Singapore, South Africa, Chinese Taipei, Tanzania, Thailand, Tunisia, Turkmenistan, United Arab Emirates, Ukraine, Uzbekistan, and Viet Nam. |
| EURASIA | Eurasia | Includes Armenia, Azerbaijan, Bosnia and Herzegovina, Georgia, Gibraltar, Kazakhstan, Kosovo, Kyrgyzstan, Montenegro, Republic of North Macedonia, Russia, Serbia, Tajikistan, Turkmenistan, and Uzbekistan. |
| EUROPE | Europe | Includes Austria, Belarus, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Türkiye, United Kingdom, and Ukraine. |
| EU | European Union | Includes Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, and Sweden. |
| G7 | G7 | Includes Canada, France, Germany, Italy, Japan, United Kingdom, United States, and the rest of EU countries. |
| LAM | Latin America | Includes Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Curacao, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Other Latin America, |

| Code region | Region | Definition |
|---|---|---|
| | | Panama, Paraguay, Peru, Trinidad and Tobago, Uruguay and Venezuela. |
| MENA | Middle East and North Africa | Includes Algeria, Bahrain, Egypt, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Qatar, Saudi Arabia, Syria, Tunisia, United Arab Emirates, and Yemen. |
| NAM | North America | Includes Canada, Mexico, and United States. |
| SSAFR | Sub-Saharan Africa | Includes Angola, Benin, Botswana, Cameroon, Congo, DR Congo, Cote d'Ivoire, Eritrea, Ethiopia, Gabon, Ghana, Kenya, Mauritius, Mozambique, Namibia, Niger, Nigeria, Other Africa, Senegal, South Africa, South Sudan, Sudan, Tanzania, Togo, Zambia, and Zimbabwe. |
| WORLD | World | Can be calculated as the aggregate of the following elements: Sub-Saharan Africa, Middle East and North Africa; Eurasia; Europe; Asia (exc. China) and Pacific; Latin America; China; United States and Canada<br><br>Includes Albania, Algeria, Angola, Argentina, Armenia, Australia, Austria, Azerbaijan, Bahrain, Bangladesh, Belarus, Belgium, Benin, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, Brunei Darussalam, Bulgaria, Cambodia, Cameroon, Canada, Chile, China, Colombia, Congo, DR Congo, Costa Rica, Cote d'Ivoire, Croatia, Cuba, Curacao, Cyprus, Czech Republic, Denmark, Dominican Republic, Ecuador, Egypt, El Salvador, Eritrea, Estonia, Ethiopia, Finland, France, Gabon, Georgia, Germany, Ghana, Gibraltar, Greece, Guatemala, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Korea, Korea, DPR, Kosovo, Kuwait, Kyrgyzstan, Latvia, Lebanon, Libya, Lithuania, Luxembourg, Malaysia, Malta, Mauritius, Mexico, Moldova, Mongolia, Montenegro, Morocco, Mozambique, Myanmar, Namibia, Nepal, Netherlands, Nicaragua, Niger, Nigeria, Netherlands, Norway, New Zealand, Oman, Other Africa, Other Asia, Other Latin America, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Senegal, Serbia, Singapore, Slovak Republic, Slovenia, South Africa, Spain, Sri Lanka, South Sudan, Sudan, Sweden, Switzerland, Syria, Chinese Taipei, Tajikistan, Tanzania, Thailand, Togo, |

| Code region | Region | Definition |
|---|---|---|
| | | Trinidad and Tobago, Tunisia, Türkiye, Turkmenistan, United Arab Emirates, United Kingdom, Ukraine, Uruguay, United States, Uzbekistan, Venezuela, Viet Nam, Yemen, Zambia, and Zimbabwe. |

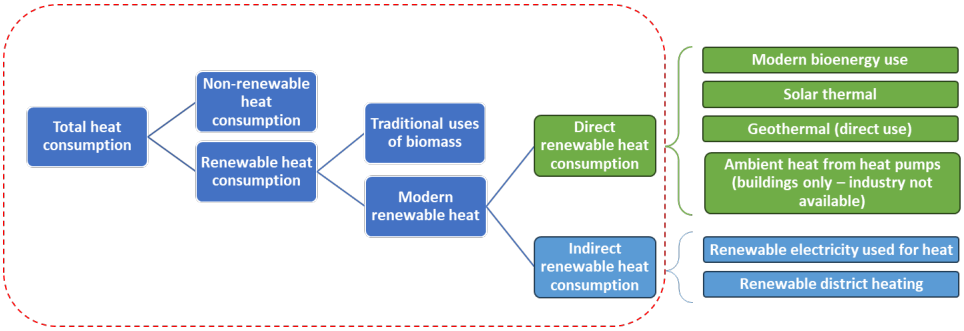
# Products

The renewable heat dataset includes twelve products. Energy values are presented in petajoules (PJ) and shares in percent (%). Each product is reported for all sectors, buildings and industry, unless otherwise stated. Agriculture is included in all sectors but is not reported separately.

| Code product | Product | Unit | Sectors |
|---|---|---|---|
| TFHC | Total final heat consumption | PJ | All sectors, Buildings, Industry |
| MODRENHEAT | Modern renewable heat consumption | PJ | All sectors, Buildings, Industry |
| MODBIOHEAT | Modern bioenergy | PJ | All sectors, Buildings, Industry |
| GEOHEAT | Geothermal heat (direct use) | PJ | All sectors, Buildings, Industry |
| SOLARHEAT | Solar thermal heat | PJ | All sectors, Buildings, Industry |
| REELECHEAT | Renewable electricity used for heat | PJ | All sectors, Buildings, Industry |
| REDISTRICTHEAT | Renewable district heat | PJ | All sectors, Buildings, Industry |
| AMBIENTHEAT | Ambient heat use from heat pumps | PJ | All sectors, Buildings (Industry reported as zero) |
| SHAREGLOBALHEAT | Share of global heat demand | % | All sectors |

| | | | |
|---|---|---|---|
| SHAREHEATTFEC | Share of heat in total final consumption | % | All sectors |
| SHARERENHEAT | Share of modern renewables in heat consumption | % | All sectors, Buildings, Industry |
| SHAREELECHEAT | Share of electricity in heat consumption | % | All sectors, Buildings, Industry |

# Definitions




| Code Tech | Definition |
|---|---|
| Total heat consumption (incl. traditional uses of biomass) | Refers to the total amount of renewable and non-renewable energy used for heat by industry, buildings, and agriculture sectors. It includes estimates of traditional uses of biomass, as well as estimates of ambient heat harnessed by heat pumps in the buildings sector. However, it excludes ambient heat harnessed by heat pumps in industry and district heating networks, for which data is not available. |
| Total non-renewable heat consumption | Refers to the total amount of non-renewable energy used for heat by industry, buildings, and agriculture sectors. |
| Total renewable heat consumption (incl. traditional uses of biomass and indirect consumption) | Refers to the total amount of renewable energy used for heat by industry, buildings, and agriculture sectors. It includes:<br><br>Direct consumption of solar thermal heat, geothermal heat and bioenergy for heat, as well as estimates of ambient heat harnessed by heat pumps in the buildings sector. Ambient heat from heat pumps in industry is not accounted for, due to the unavailability of data. |

| Code Tech | Definition |
|---|---|
| | Indirect consumption of renewable energy through district heating networks and electricity used for heat. (Indirect consumption of renewable energy for heat is estimated based on the national shares of renewable sources in electricity generation and in district heating supplies.)<br><br>Estimates of traditional uses of biomass. |
| Modern renewable heat consumption (incl. indirect consumption) | Refers to the total amount of renewable energy used for heat, excluding the traditional uses of biomass. It includes:<br><br>Direct consumption of solar thermal, geothermal and bioenergy for heat, as well as estimates of ambient heat from heat pumps used in the buildings sector. However, it does not account for ambient heat from heat pumps in industry, for which data is not available.<br><br>Indirect consumption of renewable energy through district heating networks and electricity used for heat. Indirect consumption of renewable energy for heat is estimated based on the national shares of renewable sources in electricity generation and in district heating supplies. Indirect consumption of ambient heat harnessed by heat pumps in district heating networks is not accounted for, as data is not available. |
| Direct modern renewable heat consumption | Includes direct consumption of bioenergy, solar thermal and geothermal heat as well as estimates of ambient heat harnessed by heat pumps in the buildings sector. However, it does not account for ambient heat from heat pumps in industry, for which data is not available. |
| Indirect renewable heat consumption (renewable electricity for heat and renewable district heating and cooling) | Includes renewable energy consumed through district heating networks and renewable electricity used for heat. These are estimated based on national shares of renewable sources in district heating supplies and electricity generation. It does not account for indirect consumption of ambient heat harnessed by heat pumps in district heating networks, for which data is not available. |
| Share of modern renewables in heat | Corresponds to the ratio:<br>$\frac{Modern\ renewable\ heat\ consumption}{Total\ heat\ consumption\ (incl.\ traditional\ uses\ of\ biomass)}$ |

# Time period

Data available from 2010 to 2031

# Sources

Sources include, but are not limited to:

- IEA 2026: World Energy Outlook 2026
- IEA 2026: World Energy Statistics and Balances

# Biogases

## Geographical coverage

The following countries, regions and aggregates are covered in the biogases dataset.

### Countries

| Code_Region | Country |
|---|---|
| BRAZIL | Brazil |
| CANADA | Canada |
| CHINA | China |
| CZECH | Czechia |
| DENMARK | Denmark |
| FRANCE | France |
| GERMANY | Germany |
| INDIA | India |
| ITALY | Italy |
| NETHLAND | Netherlands |
| SPAIN | Spain |
| UK | United Kingdom |
| USA | United States |

### Regions and aggregates

| Code region | Region | Definition |
|---|---|---|
| EU | | Includes Austria, Belgium, Bulgaria, Croatia, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain and Sweden. |

| Code region | Region | Definition |
|---|---|---|
| MENA | Middle East and North Africa | Includes Iran, Israel and Jordan. |
| OTHERAPAC | Other Asia (excl. China) and Pacific | Includes Australia, Chinese Taipei, Hong Kong, Indonesia, Korea, Malaysia, Myanmar, Nepal, New Zealand and Thailand. |
| OTHEREURASIA | Other Eurasia | Includes Kazakhstan. |
| OTHEREUROPE | Other Europe | Includes Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Estonia, Finland, Greece, Hungary, Iceland, Ireland, Latvia, Lithuania, Luxembourg, Malta, Moldova, Republic of North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Sweden, Switzerland, Türkiye and Ukraine. |
| OTHERLAM | Other Latin America | Includes Argentina, Chile, Colombia, Costa Rica, Ecuador, Mexico, Peru, El Salvador, Guatemala, Nicaragua, Uruguay, Cuba and Honduras. |
| SSAFR | Sub-Saharan Africa | Includes Cameroon, Ghana, Kenya, Mauritius, Rwanda, South Africa, Uganda and Zimbabwe. |
| WORLD | World | Includes Argentina, Australia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Cameroon, Canada, Chile, China, Colombia, Costa Rica, Croatia, Cuba, Czechia, Denmark, Ecuador, El Salvador, Estonia, Finland, France, Germany, Ghana, Greece, Guatemala, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Ireland, Israel, Italy, Japan, Jordan, Kazakhstan, Kenya, Korea, Latvia, Lithuania, Luxembourg, Malaysia, Malta, Mauritius, Mexico, Moldova, Myanmar, Nepal, Netherlands, Nicaragua, Nicaragua, North Macedonia, Norway, New Zealand, Peru, Poland, Portugal, Romania, Rwanda, Serbia, Slovak Republic, Slovenia, South Africa, Spain, Sweden, Switzerland, Chinese Taipei, Thailand, Türkiye, Uganda, United Kingdom, Ukraine, Uruguay, United States and Zimbabwe. |

# Products

The biogases dataset includes three types of products.

| Code Product | Product | Description |
|---|---|---|
| BIOGAS | Biogas | Data presented in terajoules per year |
| BIOMETHANE | Biomethane | Data presented in terajoules per year |
| BIOGASES | Biogases | Biogases are the sum of biogas and biomethane. Data presented in terajoules per year |

# Flows

The biogases data set include one flow.

| Code Flow | Flows | Description |
|---|---|---|
| TOTAL | Inland consumption | Includes biogases used within the country in a given year |

# Time period

Data available from 2010 to 2031 for all products and flows.

# Cases

This dataset contains Main and Accelerated cases. The Main case is based on current policy and market conditions, while the Accelerated case assumes changes in the policy or market to address current challenges.

# Sources

Sources include but are not limited to:

- Canada Energy Regulator (2025), Renewable Energy in Canada: Current Status and Near-Term Developments
- CIBiogás (2026), Panorama do Biogás no Brasil 2025
- EU eurostat (2026), Short assessment of renewable energy sources (SHARES)
- IEA (2026), World Energy Statistics
- UK Department for Energy Security and Net Zero (2026), Digest of UK Energy Statistics (DUKES): renewables sources of energy

International Energy Agency (IEA)

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