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The energy balance of the Republic of Moldova ; 2017

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National Bureau of Statistics of the Republic of Moldova, Chisinau

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**NATIONAL BUREAU OF STATISTICS
OF THE REPUBLIC OF MOLDOVA**

**THE ENERGY BALANCE
OF THE REPUBLIC OF MOLDOVA**
STATISTICAL COMPILATION

2017

Chisinau, 2018

FOREWORD

„The energy balance of the Republic of Moldova” is a large statistical collection, which presents the statistical indicators on the formation of primary and general resources of energy, distribution and final energy consumption on the main activities of the national economy during the period 2010-2017.

The collection is structured in 2 chapters and includes about 27 tables. Basic methodological notes are displayed for the basic indicators of the balance in the collection.

The collection is based on the annual statistical surveys carried out by the National Bureau of Statistics on enterprises, organizations, administrative authorities, other state and private institutions with legal personality.

Data on the consumption of **Biofuels and Waste** in the residential sector (population) were revised for 2010-2017. The recalculation of the data was done with the support of the Energy Community experts and was based on the results obtained in the "Research on Household Energy Consumption" conducted by the NBS for the 2015 reference year.

The research results can be found at:

http://www.statistica.md/public/files/publicatii_electronice/Consum_energie_gospoda/Consum_energie.pdf

For subsequent years, the data on the consumption of **Biofuels and Waste** in the residential sector (population) will be estimated using the same calculation method.

The publication does not include the data of the economic entities located in the territory on the left side of the river Nistru and mun.Bender.

This collection is published only in electronic version on the official website of the NBS.

Symbols used

- = not applicable
- 0 = negligible magnitude

In some cases, there may occur insignificant discrepancies between the totals and corresponding sums of the components, fact that could be explained by data approximations.

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METHODOLOGICAL NOTES

1. LEGAL FRAMEWORK

The Republic of Moldova as a full state of the Energy Community has the obligation to calculate and disseminate accurate and updated data on the quantities, types, sources, production, supply, transformation and the consumption, to monitoring the impact and consequences of its policy in the energy field. The common framework for the production, transmission, evaluation and dissemination of comparable energy statistics under the Energy Community is given by Regulation (EC) No. 1099/2008 of the European Parliament and of the Council of October 22, 2008 on energy statistics, with further changes. The Regulation applies to statistical data concerning energy products and their aggregates.

At the national level, the present methodology has been approved by the National Bureau of Statistics Board Decision No. 6/3 of December 23, 2014.

2. COVERAGE AND DATA SOURCE

Data on energy products and their aggregates are collected from annual surveys as follows:

- Specific statistical surveys addressed to producers and suppliers of electricity - 6th it; 23-H; PE.
- Specific research addressed to natural gas distributors - 1-Gas.
- Specific statistical research addressed to producers and traders of primary and transformed energy, distributors and final consumers - 1-BE.
- other sources, including administrative sources (other directions of statistical production, of NBS, ANRE, ministries, etc.)

Data collection is exhaustive for units producing electric and thermal energy also for the largest consumers of energy. In research, according to data for 2017 were included 19 795 statistical units with juridical personality.

Specific statistical surveys are addressed to all economic agents, whatever of their field of activity, according to a catalog prepared by NBS and in the basis of Classification of Activities from national economy CAEM Rev.2. According to this classification, consumptions reported by businesses are grouped in:

- energy sector: CAEM Rev. 2. code 05, code 0892, code 06, code 0910, code 0721, code 19, code 35;
- industry and construction: CAEM Rev. 2. code 0710, code 0729, code 081, code 089, code 0990, code 10-43 (except code 19, code 35);
- transport: CAEM Rev.2. code 49, code 50, code 51;
- agriculture: CAEM Rev. 2. Code 01, Code 02, Code 03;
- other economy branches: *CAEM Rev.2. Section E, Section G (code 52, code 53), Section I, Section J, Section K, Section L, Section M, Section N, Section O, Section P, Section Q, Section R, Section S, Section T, Section U.*

Nomenclature of Goods, developed in accordance with the Harmonized Commodity Description and Coding System (HS-2007) and the Combined Nomenclature (CN). According to this nomenclature are classified imports and exports of energy products.

Nomenclature of industrial products and services PRODMOLD 2013. According to this nomenclature production (primary and transformed) of energy products is classified.

3. ENERGY PRODUCTS

Energy product	Definition
1. Solid fossil fuels and manufactured gases	
Anthracite	High rank coal used for industrial and residential applications. Generally, it has less than 10 % volatile matter and a high carbon content (about 90 % fixed carbon). Its gross calorific value is greater than 23 865 kJ/kg (5 700 kcal/kg), measured based on a mass of ash-free but moist coal.
Coking coal	Bituminous coal with a quality that allows the production of a coke suitable to support a blast furnace charge. Its gross calorific value is greater than 23 865 kJ/kg (5 700 kcal/kg) on an ash-free but moist basis.
Other bituminous coal (steam coal)	Coal used for steam raising purposes and includes all bituminous coal that is neither included under coking coal nor anthracite. It is characterised by higher volatile matter than anthracite (more than 10 %) and lower carbon content (less than 90 % fixed carbon). Its gross calorific value is greater than 23 865 kJ/kg (5 700 kcal/kg) on an ash-free but moist basis. If bituminous coal is used in coke ovens it should be reported as coking coal.
Sub-bituminous Coal	Refers to non-agglomerating coal with a gross calorific value between 17 435 kJ/kg (4 165 kcal/kg) and 23 865 kJ/kg (5 700 kcal/kg) containing more than 31 % volatile matter on a dry mineral matter free basis.
Lignite/brown coal	<p>Non-agglomerating coal with a gross calorific value less than 17 435 kJ/kg (4 165 kcal/kg) and greater than 31 % volatile matter on a dry mineral matter free basis.</p> <p>Oil shale and tar sands produced and combusted directly should be reported in this category. Oil shale and tar sands used as inputs for other transformation processes should also be reported in this category.</p> <p>This includes the portion of the oil shale or tar sands consumed in the transformation process. Shale oil and other products derived from liquefaction should be reported on the Annual Oil Questionnaire.</p>
Coke oven coke	<p>The solid product obtained from carbonisation of coal, principally coking coal, at high temperature, it is low in moisture and volatile matter. Coke oven coke is used mainly in the iron and steel industry acting as energy source and chemical agent. Coke breeze and foundry coke are included in this category.</p> <p>Semi-coke (a solid product obtained from carbonisation of coal at low temperature) should be included in this category. Semi-coke is used as a domestic fuel or by the transformation plant itself. This heading also includes coke, coke breeze and semi-coke made from lignite/brown coal.</p>
Patent fuel	A composition fuel manufactured from hard coal fines with the addition of a binding agent. The amount of patent fuel produced may, therefore, be slightly higher than the actual amount of coal consumed in the transformation process.
Gasworks gas	<p>Covers all types of gases produced in public utility or private plants, whose main purpose is manufacture, transport and distribution of gas. It includes gas produced by carbonisation (including gas produced by coke ovens and transferred to gasworks gas), by total gasification with or without enrichment with oil products (LPG, residual fuel oil, etc.), and by reforming and simple mixing of gases and/or air, reported under the rows 'from other sources'. Under the transformation sector identify amounts of gasworks gas transferred to blended natural gas which will be distributed and consumed through the natural gas grid.</p> <p>The production of other coal gases (i.e. coke oven gas, blast furnace gas and oxygen steel furnace gas) should be reported in the columns concerning such gases, and not as production of gasworks gas. The coal gases transferred to gasworks plants should then be reported (in their own column) in the transformation sector in the gasworks plants row. The total amount of gasworks gas resulting from transfers of other coal gases should appear in the production line for gasworks gas.</p>
Coke oven gas	Obtained as a by-product of the manufacture of coke oven coke for the production of iron and steel.
Other gases recovered	It is a secondary product resulted from production of steel in oxygen furnaces, recovered on leaving from furnace. Gases are known as converter

Energy product	Definition
	gas, LD gas or BOS gas. The amount of recovered fuel should be reported on a gross calorific value basis. It includes also not specified artificial gases which have not been mentioned above, such as fuel gases of solid carbonaceous origin recovered from chemical and manufacturing processes undefined otherwise.
Peat	<p>A combustible soft, porous or compressed, sedimentary deposit of plant origin with high water content (up to 90 % in the raw state), easily cut, of light to dark brown colour. Peat used for non-energy purposes is not included.</p> <p>This definition is without prejudice to the definition of renewable energy sources in Directive 2001/77/EC and to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories.</p>
2. Natural gas	
Natural gas	<p>This data collection applies to natural gas, which comprises gases occurring in underground deposits, whether liquefied or gaseous, consisting mainly of methane. It includes both ‘non-associated’ gas originating from fields producing hydrocarbons only in gaseous form, and ‘associated’ gas produced in association with crude oil as well as methane recovered from coal mines (colliery gas) or from coal seams (coal seam gas).</p> <p>It does not include gases created by anaerobic digestion of biomass (e.g. municipal or sewage gas) nor gasworks gas.</p>
3. Oil and petroleum products	
Crude oil	Crude oil is a mineral oil of natural origin comprising a mixture of hydrocarbons and associated impurities, such as sulphur. It exists in the liquid phase under normal surface temperature and pressure and its physical characteristics (density, viscosity, etc.) are highly variable. This category includes field or lease condensate recovered from associated and non-associated gas where it is commingled with the commercial crude oil stream.
NGL	NGL are liquid or liquefied hydrocarbons recovered from natural gas in separation facilities or gas processing plants. Natural gas liquids include ethane, propane, butane (normal and iso-), (iso) pentane and pentanes plus (sometimes referred to as natural gasoline or plant condensate).
Refinery feedstocks	A refinery feedstock is a processed oil destined for further processing (e.g. straight run fuel oil or vacuum gas oil) excluding blending. With further processing, it will be transformed into one or more components and/or finished products. This definition also covers returns from the petrochemical industry to the refining industry (e.g. pyrolysis gasoline, C4 fractions, gasoil and fuel oil fractions).
Additives/oxygenates	<p>Additives are non-hydrocarbon compounds added to or blended with a product to modify fuel properties (octane, cetane, cold properties, etc.):</p> <ul style="list-style-type: none"> — oxygenates, such as alcohols (methanol, ethanol), ethers (such as MTBE (methyl tertiary butyl ether), ETBE (ethyl tertiary butyl ether), TAME (tertiary amyl methyl ether)), — esters (e.g. rapeseed or dimethylester, etc.), — chemical compounds (such as TML, TEL and detergents). <p><i>Note:</i> quantities of additives/oxygenates (alcohols, ethers, esters and other chemical compounds) reported in this category should relate to the quantities destined for blending with fuels or for fuel use.</p>
Refinery gas (not liquefied)	Refinery gas includes a mixture of non-condensable gases mainly consisting of hydrogen, methane, ethane and olefins obtained during distillation of crude oil or treatment of oil products (e.g. cracking) in refineries. This also includes gases which are returned from the petrochemical industry.
Ethane	A naturally gaseous straight-chain hydrocarbon (C ₂ H ₆) extracted from natural gas and refinery gas streams.
Motor gasoline	Motor gasoline consists of a mixture of light hydrocarbons distilling between 35 °C and 215 °C. It is used as a fuel for land based spark ignition engines. Motor gasoline may include additives, oxygenates and octane enhancers, including lead compounds

Energy product	Definition
	such as TEL and TML. Includes motor gasoline blending components (excluding additives/oxygenates), e.g. alkylates, isomerate, reformat, cracked gasoline destined for use as finished motor gasoline.
Aviation gasoline	Motor spirit prepared especially for aviation piston engines, with an octane number suited to the engine, a freezing point of - 60 °C and a distillation range usually within the limits of 30 °C and 180 °C.
Gasoline type jet fuel	Distillate used for aviation turbine power units. It has the same distillation characteristics between 150 °C and 300 °C (generally not above 250 °C) and flash point as kerosene. In addition, it has particular specifications (such as freezing point) which are established by the International Air Transport Association (IATA). Includes kerosene blending components.
Other kerosene	Refined petroleum distillate used in sectors other than aircraft transport. It distils between 150 °C and 300 °C.
Diesel oil	Diesel oil is primarily a medium distillate distilling between 180 °C and 380 °C. Includes blending components. Several grades are available depending on uses.
Lubricants	Hydrocarbons produced from distillate by-product; they are mainly used to reduce friction between bearing surfaces. Includes all finished grades of lubricating oil, from spindle oil to cylinder oil, and those used in greases, motor oils and all grades of lubricating oil base stocks.
Bitumen	Solid, semi-solid or viscous hydrocarbon with a colloidal structure, being brown to black in colour, obtained as a residue in the distillation of crude oil, by vacuum distillation of oil residues from atmospheric distillation. Bitumen is often referred to as asphalt and is primarily used for construction of roads and for roofing material. Includes fluidised and cut back bitumen.
Fuel oil	All residual (heavy) fuel oils (including those obtained by blending). Kinematic viscosity is above 10 cSt at 80 °C. The flash point is always above 50 °C and density is always more than 0,90 kg/l.
Naphtha	Naphtha is a feedstock destined for either the petrochemical industry (e.g. ethylene manufacture or aromatics production) or for gasoline production by reforming or isomerisation within the refinery. Naphtha comprises material in the 30 °C and 210 °C distillation range or part of this range.
Petroleum coke	Black solid by-product, obtained mainly by cracking and carbonising petroleum derived feedstock, vacuum bottoms, tar and pitches in processes such as delayed coking or fluid coking. It consists mainly of carbon (90 to 95 %) and has a low ash content. It is used as a feedstock in coke ovens for the steel industry, for heating purposes, for electrode manufacture and for production of chemicals. The two most important qualities are 'green coke' and 'calcinated coke'. Includes 'catalyst coke' deposited on the catalyst during refining processes; this coke is not recoverable and is usually burned as refinery fuel.
Other products	All products not specifically mentioned above, for example: tar and sulphur. Includes aromatics (e.g. BTX or benzene, toluene and xylene) and olefins (e.g. propylene) produced within refineries.
4. Renewable energy and energy from waste	
Solid biomass	Covers organic, non-fossil material of biological origin which may be used as fuel for heat production or electricity generation. It comprises:
Of which: wood, wood wastes, other solid wastes	Purpose-grown energy crops (poplar, willow etc.), a multitude of woody materials generated by an industrial process (wood/paper industry in particular) or provided directly by forestry and agriculture (firewood, wood chips, wood pellets, bark, sawdust, shavings, chips, black liquor etc.) as well as wastes such as straw, rice husks, nut shells, poultry litter, crushed grape dregs etc. Combustion is the preferred technology for these solid wastes. The quantity of fuel used should be reported on a net calorific value basis.
Liquid biofuels	The quantities of liquid biofuels reported in this category should relate to the quantities of biofuel and not to the total volume of liquids into which the biofuels are blended. For the particular case of imports and exports of liquid biofuels, only

Energy product	Definition
	trade of quantities that have not been blended with transport fuels is concerned (i.e. in their pure form).
Biogas	A gas composed principally of methane and carbon dioxide produced by anaerobic digestion of biomass.
Hydro power	Potential and kinetic energy of water converted into electricity in hydroelectric plants. Pumped storage must be included. Production must be reported for plant sizes of < 1 MW, 1 to < 10 MW, \geq 10 MW and from pumped storage.
Solar energy	Solar radiation exploited for hot water production and electricity generation. This energy production is the heat available to the heat transfer medium, i.e. the incident solar energy less the optical and collectors' losses. Passive solar energy for the direct heating, cooling and lighting of dwellings or other buildings is not included.
Wind	Kinetic energy of wind exploited for electricity generation in wind turbines.
5. Electricity and heat	
Electrical energy	It means electrical energy from all sources of production by type of producers, installations, fuels.
Thermal energy	Thermal energy destined for sale to third parties by type of producers, installations, fuels.

4. LIST OF AGGREGATED INDICATORS

Name of aggregated indicator	Definition
Primary energy production / national production	<p>This category includes production from the exploitation of existing energy sources in nature (in subsoil assets, forests, water courses, etc.) that can be used as such or after a preliminary processing (sorting, washing, cleaning, etc.) that does not change the structure of assortment, but improves its quality for use as fuel or as feedstock for producing other combustible products or noncombustible.</p> <p><i>Coal production</i> from underground and surface mines; recovered slurries, mixed minerals and other low-grade coal products, which cannot be classified according to type of coal. This includes coal recovered from waste piles and other waste receptacles;</p> <p><i>Natural gas production:</i> dry marketable gas, obtained within national boundaries, including offshore production. Production is measured after removal of impurities and NGL extraction and of sulphur. Extraction losses and quantities reinserted, discharged to air or burned are not included in this item.</p> <p>Here are included quantities used in the natural gas industry, in the process of extraction of natural gas, into pipelines and in natural gas processing plants and natural gas obtained with crude oil; natural gas from fields producing hydrocarbons only in gaseous and methane produced in coal mines or extracted from coal layers, brought to the surface and consumed of collieries or transmitted by pipeline to consumers;</p> <p><i>Crude oil production</i> (including liquids products from natural gas extraction);</p> <p><i>Electricity production:</i> hydroelectric and wind energy production; is reported gross output (production measured at generator terminals);</p> <p><i>Heat production:</i> heat production obtained from nuclear reactors;</p> <p><i>Biomass production:</i> firewood, combustible products derived from activities other than energy production, such as wood processing cellulose and paper production, agriculture, etc;</p> <p><i>Production of other fuels:</i> geothermal energy, solar photovoltaic energy, solar thermal energy, biogas, non-renewable industrial waste, renewable municipal waste and biofuels.</p>
Import/export	<p>Unless provisions contrary, imports "refers to the country of initial origin (the country in which the energy product was produced) for use in the country and,, exports" to the country of final consumption of energy product . Are considered as imported or exported quantities that have passed or not customs, who have passed the political boundaries of a country.</p> <p>For electric energy are considered as imported or exported quantities of electricity, quantities that have passed or not customs, who have passed the political boundaries of a country. If the amount of electric energy is transited through a country, it should be</p>

Name of aggregated indicator	Definition
	<p>registered as both import and export.</p> <p>For petroleum products, this category includes quantities of crude oil and products imported or exported in accordance with processing agreements (i.e. refining for account). Crude oil and NGL should be registered as coming from the origin country; in the case of refinery feedstock's and final products should be taken into account by the last country of origin. This includes any gas liquids (i.e. LPG) extracted during the regasification of imported liquefied natural gas and imported or exported petroleum products directly by the petrochemical industry.</p> <p>Re-exports of oil imported for processing within bonded areas should be included as an export of product from the processing country to the country of final destination.</p>
Stock at 1 January/ Stock at 31 December	<p>Stock at the beginning of the reference period include stocks of existing primary and transformed energy stock at producers, distributors and consumers and these left in custody to the economic agents.</p> <p>Stock at the end of the reference period include the quantities of the fuels motor fuels existing at producers, distributors and consumers at the end of the reference period, regardless of their source.</p> <p>Stocks represents all stocks on national territory, including stocks held by governments, by major consumers or of organizations dealing with stock possession, stocks from incoming ocean vessels, stocks held in bonded areas and stocks held for others in accordance or not with bilateral government agreement.</p>
Stock variation	The difference between stocks of 1 January and those of 31 December.
Bunkering	Includes quantities of fuels delivered to marine ships and aircraft engaged in international voyages, regardless of their flag or nationality of the airline company. Are not included the quantities consumed by ships sailing in national waters. Quantities of fuels consumed by fishing vessels are included in consumption in agriculture.
The calculated gross domestic consumption	Total Resources + Import - Export - Bunkering ± stock variation
Total transformation Sector - inputs	<p>Quantities of fuels used for primary or secondary energy transformation, for example:</p> <ul style="list-style-type: none"> - coal in electric energy, coke oven gas in electric energy or used for the transformation in derived energy products (eg coking coal in coke); - natural gas in electric energy or used for the transformation in derived energy products (eg natural gas in methanol); <p>Quantities of renewable energy and wastes used for the conversion of primary forms of energy to secondary forms (eg landfill gases to electric energy or used for the transformation to derived energy products (eg biogas used for blended natural gas); Quantities of oil entered in the refineries;</p>

Name of aggregated indicator	Definition
- in stations for producing thermoelectric energy	<p>Are included total quantities of fuels consumed for producing electric energy whatever of type of the producing station, both in the public sector (which includes economic agents of whose main activity is the producing electricity regardless of their form of ownership) and to self-producers (comprising economic agents, whatever their form of ownership, of whose main occupation is other than energy production and electricity producing mainly for domestic needs, the surplus being sold to third parties). Self-producers represents electric station in mining, food industry, refineries, non-metal materials, metallurgy, chemistry, mechanical engineering of the railways and other industries.</p>
- in stations for producing thermal energy	<p>Are included total quantities of fuels consumed for producing thermal energy whatever of type of the producing station, in the public sector (which includes economic agents of whose main activity is the producing thermal energy regardless of their form of ownership) and for producing thermal energy by self-producers sold to third parties.</p> <p>Are not included quantities of fuels consumed in its own industrial activity for heated by direct combustion heaters and the heat consumed in own residential buildings, which are recorded on household consumption.</p> <p>Also not included own consumptions of the station, those being declared consumptions in energy sector.</p> <p>Consumptions for thermal energy produced in the means of transport are not summarized, being included in the consumption of transport.</p>
- in briquetting installations	<p>Includes quantities of coal and binder consumed for the production of charcoal briquettes.</p> <p>Excluded are quantities used for heating and for operation of equipment that should not be registered here, but registered as consumption in the energy sector.</p>
- in coke ovens	<p>Includes quantities of coking coal consumed for the production of coke, semi-coke and of coke oven gas. Excluded are quantities used for heating and for operation of equipment that should not be registered here, but registered as consumption in the energy sector.</p>
- in blast furnaces	<p>Includes fuel quantities used in furnaces (coking coal and / or bituminous coal, with generic name as pulverized coal injection, metallurgical coke) for production of blast furnace gas in the process of reduction of the iron ore. These amounts are subtracted from consumption in metallurgy, to avoid double recordings.</p> <p>Excluded are quantities used for heating and for operation of equipment that should not be registered here, but registered as consumption in the energy sector.</p>
- in oil refineries	<p>Includes quantities of crude oil, gasoline and ethane from extraction scaffolds used for processing and obtaining derivative products (combustible and noncombustible products) namely: gasoline, petroleum, white spirit, diesel and aromatic extract, oil, mineral oil, petroleum coke, petroleum bitumen, paraffin waxes, greases, waxes, liquefied petroleum gas, refinery</p>

Name of aggregated indicator	Definition
	<p>gases including propylene from refineries and other petroleum products. Are included processed oil quantities in the activity of "processing". Does not include returns from petrochemical and blanks.</p> <p>Excluded are quantities used for heating and for operation of equipment that should not be registered here, but registered as consumption in the energy sector.</p>
- in other domains	Includes quantities of coal, firewood and wood waste consumed for producing generator gas and for producing charcoal.
Total energy sector - output from transformation inclusive:	Outputs from transformation represents energy production resulted from the transformation activity: products derived from coal, refined petroleum products, derived gases, thermoelectric energy and thermal energy. Productions included in this sector include own consumption of transformation installations.
- from stations for producing thermoelectric energy	The indicator includes gross thermoelectric energy production (measured at the generator terminals), inclusive that produced by mobile generator sets, regardless of the type of equipment manufacturing (condensing groups or heating groups), both in the public sector as well of the self-producers. To determine the net production, from gross production is subtracted own consumption of station.
- from stations for producing thermal energy	<p>The indicator contains production of thermal energy achieved in stations whose main activity is producing thermal energy as well as thermal energy produced and sold by the self-producers.</p> <p>This includes thermal energy used by the auxiliary's installation of station which uses a hot fluid (space heating, liquid fuel heating etc.) and losses from the heat exchanges of the installation / network, as well as heat from chemical processes used as primary energy form, regardless of the type of producing station.</p> <p>This includes and the amount of thermal energy (hot steam) used for producing thermal energy.</p> <p>Not included thermal energy used for producing electric energy.</p>
- from briquetting installations	Represents production of coal briquettes, regardless of the assortment of coal used
- from coke ovens	Represents fuel production resulting from the processing of coking of hard coal, namely: coke, semi coke, coke oven gas, coke oven pitch, etc.
- from furnaces	Represents production of blast furnace gas obtained by transforming coke in the process of reducing iron ore from blast furnaces;
- from oil refineries	Represents gross production of refined petroleum products.
- from other domains	Includes production of other fuels categories other than those mentioned (production of gases of gasogen and of the charcoal).
Transfer	<p>Represents quantities of products of whose classification has changed either because their specifications were changed, either because these were mixed together to form another product..</p> <p>A negative value for one product should be compensated by one (or more) positive value for one or more products</p>

Name of aggregated indicator	Definition
	and vice versa, the total net effect should be zero.
Consumption in the energy sector (for the functioning of generating installations and ensuring basic activity)	<p>This indicator includes quantities of energy carriers consumed by primary energy producers or converted for operation of their installations.</p> <p>Includes electric energy consumption of aggregates for producing electric and thermic energy, of domestic services (pumps, fans, coal mills, etc.), technological lighting and for various heating devices (relays, contactors), electric energy consumption in the transformers raising voltage in electric stations.</p> <p>Also, includes electric energy consumption of aggregates for producing electric energy, of internal services of station and for heating fuel depots. Not included thermic energy used for producing electric energy.</p> <p>Includes consumption of renewables and waste used by the energy industry to support the transformation activity. For example, renewables and wastes used for heating, lighting or operating pumps or of compressors.</p> <p>Are summarized quantities of energy products used as energy in refineries and quantities consumed as fuel in the oil extraction process and of natural gas and in installations of processing natural gas.</p> <p>Are not taken into account the quantities of fuels transformed into another energy form (which should be registered at the transformation sector) or those used to support the exploitation of the pipeline oil, gas and coal (to be reported in the Transport) and losses of the pipes (that should be reported in distribution losses).</p> <p>This sector also includes the production of chemical substances used in atomic fission and fusion and the products of these processes.</p>
Extraction of superior and inferior coal	CAEM Rev. 2. code 05 - Extraction of superior and inferior coal; CAEM Rev. code 0892 – Extraction and agglomeration of peat.
Extraction of crude petroleum, natural gas and services related to extraction	CAEM Rev. 2. code 06 - Extraction of crude petroleum, natural gas (excluding prospecting); CAEM Rev. 2. code 0910 – Activities of related services of oil and natural gas extraction
Extraction of uranium and thorium ores	CAEM Rev. 2. code 0721 - Extraction of uranium and thorium ores
Manufacture of coke products and of products from crude oil processing	CAEM Rev. 2. code 19 - Manufacture of coke products and of products from crude oil processing
Production and supply of electric, thermic energy, gases, hot water and air conditioning	CAEM Rev.2. code 35 - Production and supply of electric, thermic energy, gases, hot water and air conditioning
Losses	<p>Are comprised:</p> <ul style="list-style-type: none"> - at electrical energy: technological consumption in transport installations, transformation and distribution to the point of separation between suppliers and consumers. Technological consumption from the point of separation between suppliers and consumers and to the receivers is comprised in technological consumption in analyzed branch (industry, construction, etc.).

Name of aggregated indicator	Definition
	<p>- at thermal energy: the amount of thermal energy from the spent steam and the condensate returned in steam boilers; thermal energy in the form of hot water not returned to the source of producing hot water, exclusively hot water used in mixture exchangers. Also included quantities of thermal energy lost through the insulation of systems.</p> <p>- at fuels: quantities lost in transport, handling and storage at producers, distributors and consumers by: leaking into the atmosphere, at burning torch; leakages of transmission and distribution networks; leakages from reservoirs and other manipulations; degradation by infiltration: quantitative and qualitative losses of solid fuels in deposits.</p>
Available for final consumption (calculated)	$\text{Available for final consumption} = \text{domestic consumption} - \text{inputs in transformation} + \text{outputs from transformation} \pm \text{transfer} - (\text{energy sector consumption} + \text{losses}) + \text{final non-energy consumption}.$
Nonenergetic	<p>Comprise quantities of energy carriers used for purposes other than those energetic, namely as: consumption of natural gas and petroleum products to obtain chemicals; quantities of natural gas used for injection into resource: crude oil for treatment drilling fluids; products used for lubrication, washing and as insulating materials.</p>
Final energy consumption (gross consumption observed), total	<p>Is determined by aggregating the quantities of energy carriers used by final consumers in economic activity carried out during the reference period.</p> <p>Comprise quantities of primary and transformed energy carriers used in consumer installations, after which no longer takes place any processing and energy transformation.</p> <p>However, in the case of thermal stations and of cogeneration stations of self-producers, are included here only quantities of fuels consumed for producing thermal energy used by them. Quantities of fuels consumed for producing thermal energy sold and for producing electric energy, should be registered in the relevant rubric form the transformation sector.</p> <p>Comprise consumption for lighting; heating and ventilation, water supply, intended for the production, exclusively those for administrative buildings which are classified under "Other branches of the economy."</p> <p>Distribution of final energy consumption is made according CAEM Rev.2. as follows:</p>
In industry, total (including construction)	It refers to all activities classified as industrial (including construction) exclusively the energy sector consumption.
from which: - mining industry	CAEM Rev.2. code 081 - Extraction of stone, sand and clay; CAEM Rev.2. code 089 – Other mining activities (excluding code 0892); CAEM Rev.2. code 09 - Mining support service activities;
- metallurgical industry	CAEM Rev.2. code 24 - Metallurgical industry
- chemical and petrochemical industry	CAEM Rev.2. code 20 – Manufacture of chemicals and chemical products;

Name of aggregated indicator	Definition
	CAEM Rev.2. code 21 – Manufacture of basic pharmaceutical products and pharmaceutical preparations; CAEM Rev.2. code 22 - Manufacture of rubber and plastic products
- nonmetallic minerals	CAEM Rev.2. code 23 - Manufacture of other products from non-metallic mineral
- transport equipment	CAEM Rev.2. code 29 - Manufacture of motor vehicles, trailers and semi-trailers; CAEM Rev.2. code 30 - Manufacture of other transport means
- Machine building industry	CAEM Rev.2. code 25 - The industry of metallic constructions and of metal products, except machinery and equipment; CAEM REV.2.code 26 - Manufacture of computer, of electronic products and optimal; CAEM Rev.2. code 27 - Manufacture of electrical equipment; CAEM Rev.2. code 28 - Manufacture of machinery and instruments equipment n.c.a.;
- food, beverages, tobacco industry	CAEM Rev.2. code 10 – Food industry; CAEM Rev.2. code 11 – Manufacture of beverages; CAEM Rev.2. code 12 – Manufacture of tobacco products;
- Pulp, Paper and printing activities	CAEM Rev.2. code 17 - Manufacture of paper and paper products; CAEM Rev.2. code 18 - Printing and reproduction on recorded media
- wood processing and furniture production	CAEM Rev.2. code 16 – Wood processing, manufacture of wood and cork products, except furniture; manufacture of articles of straw and other plaiting materials CAEM Rev.2. code 31 - Manufacture of furniture
- Industry of textile and leather products	CAEM Rev.2. code 13- Manufacture of textile products; CAEM Rev.2. code 14– Manufacture of Clothing articles; CAEM Rev.2. code 15 – Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear
- constructions	CAEM Rev.2. code 41 – Construction of buildings; CAEM Rev.2. code 42 – Civil constructions works; CAEM Rev.2. code 43 - Special construction works
- Other industrial activities	CAEM Rev.2. code 32 - Other industrial activities n.c.a. CAEM Rev.2. code 36 - Collection, purification and distribution of water;
- transports	Comprises consumptions in transport activity (road, rail, air, sea and pipeline), inclusive internal transportation (for economic agents with main activity other than transport). Includes consumption of fuel used by the population for their own means of transport. Not included consumption of marine vessels which sailing in international waters, this is included in "marine bunkers". Consumption of fishing vessels is included in "Fishing and aquaculture". CAEM Rev.2. code 49 - Land transport and transport via pipelines;

Name of aggregated indicator	Definition
	CAEM Rev.2. code 50 - Water transport; CAEM Rev.2. code 51 - Air transport;
- residential sector (population)	<p>Comprises :</p> <ul style="list-style-type: none"> - to electric energy: quantity consumed for lighting and other household uses, inclusive for living spaces from the ownership and management of economic agents. - to thermal energy: quantity of thermal energy delivered to the population for heating and domestic hot water, both by the public sector as well as by self-producers. - to fuels: quantities effective delivered to population for direct flame consumption for heating and cooking and for producing thermal energy in micro stations of real estate. This also includes quantities of coal received by miners as allowances.
- Agriculture	<p>It comprises energy consumption in registered in agriculture, forestry, logging and hunting economy and pisciculture and fishing. It also includes the energy consumption of fishing vessels.</p> <p>CAEM Rev.2. code 01- Agriculture, hunting and related services</p> <p>CAEM Rev.2. code 02 - Silviculture forest harvesting</p> <p>CAEM Rev.2. code 03 – Fishing and aquaculture</p>
- Other sectors of the economy	<p>It comprises energy consumption reported by economic agents as consumed in other activities than those mentioned above, namely:</p> <p>CAEM Rev.2. Section E – Water supply; sewerage, waste management and remediation activities (excluding division 36)</p> <p>CAEM Rev.2. Section G - Wholesale and retail trade; repair of motor vehicles and motorcycles,</p> <p>CAEM Rev.2. code 52 - Storage and support activities for transportation</p> <p>CAEM Rev.2. code 53 – Postal and courier activities,</p> <p>CAEM Rev.2. Section I – Accommodation and public alimentation activities,</p> <p>CAEM Rev.2. Section J - Information and communication,</p> <p>CAEM Rev.2. Section K – Financial and insurance activities,</p> <p>CAEM Rev.2. Section L - Real estate transactions,</p> <p>CAEM Rev.2. Section M - Professional, scientific and technical activities,</p> <p>CAEM Rev.2. Section N - Activities of administrative services and activities of support services.</p> <p>CAEM Rev.2. Section O - Public administration and defense; compulsory social security,</p> <p>CAEM Rev.2. Section P – Education ,</p> <p>CAEM Rev.2. Section Q - Health & Social Assistance,</p> <p>CAEM Rev.2. Section R – Art, recreational and leisure activities,</p> <p>CAEM Rev.2. Section S - Other service activities,</p> <p>CAEM Rev.2. Section T - Activities of private households as an employer of domestic personnel; activities of private households for producing goods and services for personal consumption,</p> <p>CAEM Rev.2. Section U – Activities of Extra-territorial</p>

Name of aggregated indicator	Definition
	<p>organizations and bodies</p> <p>Also included is electricity used for street lighting, respectively for lighting of streets, squares, parks and public gardens, monuments and public buildings, road signs bright, exclusively firms and advertisements.</p>
Statistical differences	<p>Is calculated as the difference between "Available for final consumption" - Of which was subtracted non-energy consumption - and "final energy consumption" observed by statistical investigation.</p> <p>Statistical differences comprising changes in stocks unregistered statistically, energy consumption for military purposes (excluding those for industrial production, comprised in industrial activities) and the differences generated by the statistical investigation system: while energy producers are registered exhaustive, consumers are investigated based on a representative sample, being admitted a margin of error.</p> <p>Statistical differences may be positive or negative as observed consumption is lower or higher than the funds available in the reference period.</p>

1. THE ENERGY BALANCE

1.1. THE ENERGY BALANCE for 2010

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	523	-	-	11	505	7	-
From other sources	258	-	-	-	-	258	-
Imports	1813	113	960	738	-	2	-
Exports	13	-	-	9	4	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	52	3	2	36	11	-	-
GROSS CONSUMPTION	2633	116	962	776	512	267	-
TRANSFORMATION, INPUT	493	2	434	38	12	7	-
Electricity plants	8	-	1	-	-	7	-
Main activity producer combined heat and power (CHP) plants	321	-	321	-	-	-	-
Autoproducer combined heat and power (CHP) plants	27	-	8	19	-	-	-
Main activity producer heat plants	60	-	60	-	-	-	-
Autoproducer heat plants	60	2	44	2	12	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	17	-	-	17	-	-	-
Liquefaction plants	0	0	0	0	0	0	0
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	398	-	-	20	-	91	287
Electricity plants	7	-	-	-	-	7	-
Main activity producer combined heat and power (CHP) plants	248	-	-	-	-	81	167
Autoproducer combined heat and power (CHP) plants	23	-	-	-	-	3	20
Main activity producer heat plants	53	-	-	-	-	-	53
Autoproducer heat plants	47	-	-	-	-	-	47
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	20	-	-	20	-	-	-
Liquefaction plants	0	0	0	0	0	0	0
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	17	-	-	-	-	17	-
LOSSES	176	1	72	4	-	52	47

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	2345	113	456	754	500	282	240
FINAL ENERGY CONSUMPTION	2313	113	456	722	500	282	240
INDUSTRY	227	33	63	11	1	68	51
Iron and steel	0	0	0	0	0	0	0
Chemical and petrochem.	3	-	-	-	-	2	1
Non-metallic minerals	94	31	47	2	-	14	-
Machinery	4	-	-	-	-	4	-
Transport equipment	-	-	-	-	-	-	-
Mining and quarrying	2	-	-	1	-	1	-
Food and tobacco	90	2	13	3	-	25	47
Paper, pulp and print	3	-	1	-	-	1	1
Wood and wood products	7	-	-	-	1	6	-
Construction	7	-	1	5	-	1	-
Textile and leather	6	-	1	-	-	3	2
Not elsewhere specified	11	-	-	-	-	11	-
TRANSPORT	597	-	7	586	-	4	-
Domestic aviation	19	-	-	19	-	-	-
Road	558	-	1	553	-	4	-
Rail	14	-	-	14	-	-	-
Pipeline transport	6	-	6	-	-	-	-
Domestic navigation	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-
OTHER	1489	80	386	125	499	210	189
Residential	1142	52	294	44	490	130	132
Comm. and public services	276	28	90	19	8	75	56
Agriculture	71	-	2	62	1	5	1
NON-ENERGY USE	32	-	-	32	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.2. THE ENERGY BALANCE for 2010

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	TeraJoule	
						Electricity	Heat
Primary Production	21911	-	3	465	21158	285	-
From other sources	10827	-	-	-	-	10827	-
Imports	76062	4709	40218	31029	16	90	-
Exports	581	1	-	430	150	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	2117	158	62	1494	403	-	-
GROSS CONSUMPTION	110336	4866	40283	32558	21427	11202	-
TRANSFORMATION, INPUT	20760	96	18220	1641	518	285	-
Electricity plants	327	-	21	21	-	285	-
Main activity producer combined heat and power (CHP) plants	13460	-	13460	-	-	-	-
Autoproducer combined heat and power (CHP) plants	1133	-	346	787	-	-	-
Main activity producer heat plants	2527	-	2527	-	-	-	-
Autoproducer heat plants	2574	96	1866	94	518	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	739	-	-	739	-	-	-
Liquefaction plants	0	0	0	0	0	0	0
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	16705	-	-	831	-	3835	12039
Electricity plants	307	-	-	-	-	307	-
Main activity producer combined heat and power (CHP) plants	10399	-	-	-	-	3413	6986
Autoproducer combined heat and power (CHP) plants	981	-	-	-	-	115	866
Main activity producer heat plants	2222	-	-	-	-	-	2222
Autoproducer heat plants	1965	-	-	-	-	-	1965
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	831	-	-	831	-	-	-
Liquefaction plants	0	0	0	0	0	0	0
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	736	-	-	-	-	715	21
LOSSES	7532	32	3071	231	7	2197	1994

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	98013	4738	18992	31517	20902	11840	10024
FINAL ENERGY CONSUMPTION	96743	4738	18981	30263	20897	11840	10024
INDUSTRY	9642	1380	2693	493	27	2841	2208
Iron and steel	6	-	-	-	-	6	-
Chemical and petrochem.	142	-	4	-	-	103	35
Non-metallic minerals	3896	1254	1989	74	-	566	13
Machinery	337	126	19	14	2	169	7
Transport equipment	-	-	-	-	-	-	-
Mining and quarrying	94	-	-	40	-	54	-
Food and tobacco	3718	-	565	142	4	1027	1980
Paper, pulp and print	131	-	33	1	-	39	58
Wood and wood products	270	-	7	3	21	236	3
Construction	316	-	46	214	-	47	9
Textile and leather	259	-	27	3	-	126	103
Not elsewhere specified	473	-	3	2	-	468	-
TRANSPORT	25100	-	319	24615	-	166	-
Domestic aviation	782	-	-	782	-	-	-
Road	23396	-	48	23196	-	152	-
Rail	605	-	-	605	-	-	-
Pipeline transport	288	-	271	3	-	14	-
Domestic navigation	3	-	-	3	-	-	-
Non-specified	26	-	-	26	-	-	-
OTHER	62001	3358	15969	5155	20870	8833	7816
Residential	47848	2168	12308	1849	20520	5455	5548
Comm. and public services	11180	1186	3565	683	329	3184	2233
Agriculture	2973	4	96	2623	21	194	35
NON-ENERGY USE	1270	-	11	1254	5	-	-
Statistical differences	-	-	-	-	-	-	-

1.3. THE ENERGY BALANCE for 2010

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	748	-	-	16	722	10	-
From other sources	369	-	-	-	-	369	-
Imports	2590	160	1371	1056	-	3	-
Exports	18	-	-	14	4	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	72	6	2	51	13	-	-
GROSS CONSUMPTION	3761	166	1373	1109	731	382	-
TRANSFORMATION, INPUT	707	3	621	55	18	10	-
Electricity plants	12	-	1	1	-	10	-
Main activity producer combined heat and power (CHP) plants	459	-	459	-	-	-	-
Autoproducer combined heat and power (CHP) plants	39	-	12	27	-	-	-
Main activity producer heat plants	86	-	86	-	-	-	-
Autoproducer heat plants	87	3	63	3	18	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	24	-	-	24	-	-	-
Liquefaction plants	0	0	0	0	0	0	0
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	570	-	-	29	-	131	410
Electricity plants	10	-	-	-	-	10	-
Main activity producer combined heat and power (CHP) plants	355	-	-	-	-	117	238
Autoproducer combined heat and power (CHP) plants	33	-	-	-	-	4	29
Main activity producer heat plants	76	-	-	-	-	-	76
Autoproducer heat plants	67	-	-	-	-	-	67
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	29	-	-	29	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	25	-	-	-	-	24	1
LOSSES	258	2	105	7	1	75	68

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	3341	161	647	1076	712	404	341
FINAL ENERGY CONSUMPTION	3297	161	647	1032	712	404	341
INDUSTRY	325	46	92	16	-	97	74
Iron and steel	-	-	-	-	-	-	-
Chemical and petrochem.	5	-	-	-	-	4	1
Non-metallic minerals	133	44	68	2	-	19	-
Machinery	7	-	1	-	-	6	-
Transport equipment	-	-	-	-	-	-	-
Mining and quarrying	3	-	-	1	-	2	-
Food and tobacco	128	2	19	5	-	35	67
Paper, pulp and print	4	-	1	-	-	1	2
Wood and wood products	8	-	-	-	-	8	-
Construction	12	-	2	8	-	2	-
Textile and leather	9	-	1	-	-	4	4
Not elsewhere specified	16	-	-	-	-	16	-
TRANSPORT	855	-	10	840	-	5	-
Domestic aviation	28	-	-	28	-	-	-
Road	797	-	2	790	-	5	-
Rail	21	-	-	21	-	-	-
Pipeline transport	8	-	8	-	-	-	-
Domestic navigation	-	-	-	-	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	2117	115	545	176	712	302	267
Residential	1631	74	420	63	699	186	189
Comm. and public services	385	41	122	24	12	109	77
Agriculture	101	-	3	89	1	7	1
NON-ENERGY USE	44	-	-	44	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.4. THE ENERGY BALANCE for 2011

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	555	-	-	13	535	7	-
From other sources	213	-	-	-	-	213	-
Imports	1937	125	931	824	-	57	-
Exports	14	-	-	14	-	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-15	-5	-1	-11	2	-	-
GROSS CONSUMPTION	2676	120	930	812	537	277	-
TRANSFORMATION, INPUT	466	2	413	34	10	7	-
Electricity plants	7	-	-	-	-	7	-
Main activity producer combined heat and power (CHP) plants	302	-	302	-	-	-	-
Autoproducer combined heat and power (CHP) plants	24	-	10	14	-	-	-
Main activity producer heat plants	55	-	55	-	-	-	-
Autoproducer heat plants	59	2	46	1	10	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	19	-	-	19	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	377	-	-	18	-	87	272
Electricity plants	7	-	-	-	-	7	-
Main activity producer combined heat and power (CHP) plants	237	-	-	-	-	78	159
Autoproducer combined heat and power (CHP) plants	21	-	-	-	-	2	19
Main activity producer heat plants	48	-	-	-	-	-	48
Autoproducer heat plants	46	-	-	-	-	-	46
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	18	-	-	18	-	-	-
Liquefaction plants	0	0	0	0	0	0	0
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	16	-	-	-	-	16	-
LOSSES	165	1	70	4	-	50	40

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	2406	117	447	792	527	291	232
FINAL ENERGY CONSUMPTION	2376	117	447	762	527	291	232
INDUSTRY	235	42	66	9	1	70	47
Iron and steel	-	-	-	-	-	-	-
Chemical and petrochem.	4	-	-	-	-	3	1
Non-metallic minerals	102	40	47	1	-	14	-
Machinery	4	-	-	-	-	4	-
Transport equipment	1	-	1	-	-	-	-
Mining and quarrying	2	-	-	1	-	1	-
Food and tobacco	88	2	15	2	-	26	43
Paper, pulp and print	4	-	2	-	-	1	1
Wood and wood products	7	-	-	-	1	6	-
Construction	6	-	-	5	-	1	-
Textile and leather	6	-	1	-	-	3	2
Not elsewhere specified	11	-	-	-	-	11	-
TRANSPORT	630	-	2	623	-	5	-
Domestic aviation	20	-	-	20	-	-	-
Road	596	-	2	590	-	4	-
Rail	13	-	-	13	-	-	-
Pipeline transport	1	-	-	-	-	1	-
Domestic navigation	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-
OTHER	1511	75	379	130	526	216	185
Residential	1165	47	277	59	521	133	128
Comm. and public services	277	28	100	10	5	78	56
Agriculture	69	-	2	61	-	5	1
NON-ENERGY USE	30	-	-	30	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.5. THE ENERGY BALANCE for 2011

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	TeraJoule	
						Electricity	Heat
Primary Production	23274	-	2	526	22471	275	-
From other sources	8923	-	-	-	-	8923	-
Imports	81292	5252	39011	34618	13	2398	-
Exports	601	-	-	597	4	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-592	-229	-25	-468	130	-	-
GROSS CONSUMPTION	112296	5023	38988	34079	22610	11596	-
TRANSFORMATION, INPUT	19579	72	17310	1522	400	275	-
Electricity plants	304	-	10	19	-	275	-
Main activity producer combined heat and power (CHP) plants	12637	-	12637	-	-	-	-
Autoproducer combined heat and power (CHP) plants	1028	-	433	595	-	-	-
Main activity producer heat plants	2316	-	2316	-	-	-	-
Autoproducer heat plants	2451	72	1914	65	400	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	843	-	-	843	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	15831	-	-	770	-	3659	11402
Electricity plants	291	-	-	-	-	291	-
Main activity producer combined heat and power (CHP) plants	9907	-	-	-	-	3264	6643
Autoproducer combined heat and power (CHP) plants	920	-	-	-	-	104	816
Main activity producer heat plants	2021	-	-	-	-	-	2021
Autoproducer heat plants	1922	-	-	-	-	-	1922
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	770	-	-	770	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	708	-	-	-	-	690	18
LOSSES	7431	14	3441	159	8	2121	1688

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	100409	4937	18237	33168	22202	12169	9696
FINAL ENERGY CONSUMPTION	99194	4937	18237	31955	22200	12169	9696
INDUSTRY	9955	1745	2766	433	47	2931	2033
Iron and steel	8	5	-	1	-	2	-
Chemical and petrochem.	188	-	4	19	-	111	54
Non-metallic minerals	4256	1657	1983	39	-	571	6
Machinery	221	2	27	7	4	171	10
Transport equipment	-	-	-	-	-	-	-
Mining and quarrying	113	-	-	52	-	61	-
Food and tobacco	3718	81	644	91	6	1088	1808
Paper, pulp and print	116	-	37	-	-	41	38
Wood and wood products	308	-	6	11	35	253	3
Construction	304	-	37	206	-	50	11
Textile and leather	261	-	26	5	2	125	103
Not elsewhere specified	462	-	2	2	-	458	-
TRANSPORT	26822	-	484	26157	-	181	-
Domestic aviation	836	-	-	836	-	-	-
Road	24955	-	78	24728	-	149	-
Rail	557	-	-	557	-	-	-
Pipeline transport	443	-	406	5	-	32	-
Domestic navigation	3	-	-	3	-	-	-
Non-specified	28	-	-	28	-	-	-
OTHER	62417	3192	14987	5365	22153	9057	7663
Residential	48903	1955	11663	2499	21839	5572	5375
Comm. and public services	10609	1232	3238	315	287	3292	2245
Agriculture	2905	5	86	2551	27	193	43
NON-ENERGY USE	1215	-	-	1213	2	-	-
Statistical differences	-	-	-	-	-	-	-

1.6. THE ENERGY BALANCE for 2011

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	792	-	-	18	765	9	-
From other sources	304	-	-	-	-	304	-
Imports	2771	179	1330	1180	-	82	-
Exports	20	-	-	20	-	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-20	-8	-1	-16	5	-	-
GROSS CONSUMPTION	3827	171	1329	1162	770	395	-
TRANSFORMATION, INPUT	668	2	590	53	14	9	-
Electricity plants	10	-	-	1	-	9	-
Main activity producer combined heat and power (CHP) plants	431	-	431	-	-	-	-
Autoproducer combined heat and power (CHP) plants	35	-	15	20	-	-	-
Main activity producer heat plants	79	-	79	-	-	-	-
Autoproducer heat plants	84	2	65	3	14	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	29	-	-	29	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	539	-	-	25	-	125	389
Electricity plants	10	-	-	-	-	10	-
Main activity producer combined heat and power (CHP) plants	338	-	-	-	-	111	227
Autoproducer combined heat and power (CHP) plants	32	-	-	-	-	4	28
Main activity producer heat plants	69	-	-	-	-	-	69
Autoproducer heat plants	65	-	-	-	-	-	65
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	25	-	-	25	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	24	-	-	-	-	23	1
LOSSES	239	3	101	5	-	72	58

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	3435	166	638	1129	756	416	330
FINAL ENERGY CONSUMPTION	3394	166	638	1088	756	416	330
INDUSTRY	341	59	98	14	1	100	69
Iron and steel	-	-	-	-	-	-	-
Chemical and petrochem.	7	-	-	1	-	4	2
Non-metallic minerals	147	59	68	1	-	19	-
Machinery	8	-	2	-	-	6	-
Transport equipment	-	-	-	-	-	-	-
Mining and quarrying	5	-	-	3	-	2	-
Food and tobacco	123	-	22	2	-	37	62
Paper, pulp and print	5	-	3	-	-	1	1
Wood and wood products	10	-	-	-	1	9	-
Construction	10	-	1	7	-	2	-
Textile and leather	10	-	2	-	-	4	4
Not elsewhere specified	16	-	-	-	-	16	-
TRANSPORT	914	-	17	891	-	6	-
Domestic aviation	28	-	-	28	-	-	-
Road	857	-	3	849	-	5	-
Rail	13	-	-	13	-	-	-
Pipeline transport	15	-	14	-	-	1	-
Domestic navigation	-	-	-	-	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	2139	107	523	183	755	310	261
Residential	1664	67	395	85	744	190	183
Comm. and public services	378	40	125	12	11	113	77
Agriculture	97	-	3	86	-	7	1
NON-ENERGY USE	41	-	-	41	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.7. THE ENERGY BALANCE for 2012

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	594	-	-	11	580	3	-
From other sources	209	-	-	-	-	209	-
Imports	1832	113	885	761	-	73	-
Exports	19	-	-	18	1	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	8	3	-	10	-5	-	-
GROSS CONSUMPTION	2624	116	885	764	574	285	-
TRANSFORMATION, INPUT	444	2	400	34	5	3	-
Electricity plants	3	-	-	-	-	3	-
Main activity producer combined heat and power (CHP) plants	292	-	292	-	-	-	-
Autoproducer combined heat and power (CHP) plants	22	-	11	11	-	-	-
Main activity producer heat plants	53	-	53	-	-	-	-
Autoproducer heat plants	52	2	44	1	5	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	22	-	-	22	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	357	-	-	18	-	80	259
Electricity plants	3	-	-	-	-	3	-
Main activity producer combined heat and power (CHP) plants	227	-	-	-	-	74	153
Autoproducer combined heat and power (CHP) plants	19	-	-	-	-	3	16
Main activity producer heat plants	46	-	-	-	-	-	46
Autoproducer heat plants	44	-	-	-	-	-	44
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	18	-	-	18	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	14	-	-	-	-	14	-
LOSSES	159	-	64	4	-	50	41

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	2364	114	421	744	569	298	218
FINAL ENERGY CONSUMPTION	2321	114	421	701	569	298	218
INDUSTRY	239	31	63	30	1	71	43
Iron and steel	-	-	-	-	-	-	-
Chemical and petrochem.	3	-	-	-	-	3	-
Non-metallic minerals	106	29	44	21	-	12	-
Machinery	4	-	-	-	-	4	-
Transport equipment	-	-	-	-	-	-	-
Mining and quarrying	2	-	-	1	-	1	-
Food and tobacco	50	2	17	2	-	29	-
Paper, pulp and print	43	-	1	-	1	1	40
Wood and wood products	7	-	-	-	-	6	1
Construction	8	-	1	6	-	1	-
Textile and leather	3	-	-	-	-	3	-
Not elsewhere specified	13	-	-	-	-	11	2
TRANSPORT	569	-	11	554	-	4	-
Domestic aviation	23	-	-	23	-	-	-
Road	521	-	2	516	-	3	-
Rail	14	-	-	14	-	-	-
Pipeline transport	10	-	9	-	-	1	-
Domestic navigation	-	-	-	-	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	1513	83	347	117	568	223	175
Residential	1183	59	250	62	559	135	118
Comm. and public services	270	24	94	4	8	84	56
Agriculture	60	-	3	51	1	4	1
NON-ENERGY USE	43	-	-	43	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.8. THE ENERGY BALANCE for 2012

							TeraJoule	
SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat	
Primary Production	24884	-	4	473	24285	122	-	
From other sources	8755	-	-	-	-	8755	-	
Imports	76881	4745	37091	31984	14	3047	-	
Exports	807	-	-	769	38	-	-	
International bunkers	-	-	-	-	-	-	-	
Stock changes	414	109	-1	460	-154	-	-	
GROSS CONSUMPTION	110127	4854	37094	32148	24107	11924	-	
TRANSFORMATION, INPUT	18672	74	16768	1452	256	122	-	
Electricity plants	139	-	7	10	-	122	-	
Main activity producer combined heat and power (CHP) plants	12243	-	12243	-	-	-	-	
Autoproducer combined heat and power (CHP) plants	948	-	448	500	-	-	-	
Main activity producer heat plants	2205	-	2205	-	-	-	-	
Autoproducer heat plants	2223	74	1865	54	230	-	-	
Oil refineries	-	-	-	-	-	-	-	
Petrochemical plants	888	-	-	888	-	-	-	
Liquefaction plants	-	-	-	-	-	-	-	
Charcoal production plants	26	-	-	-	26	-	-	
Not elsewhere specified - transformation	-	-	-	-	-	-	-	
TRANSFORMATION, OUTPUT	15026	-	-	779	13	3358	10876	
Electricity plants	133	-	-	-	-	133	-	
Main activity producer combined heat and power (CHP) plants	9546	-	-	-	-	3120	6426	
Autoproducer combined heat and power (CHP) plants	807	-	-	-	-	105	702	
Main activity producer heat plants	1911	-	-	-	-	-	1911	
Autoproducer heat plants	1837	-	-	-	-	-	1837	
Oil refineries	-	-	-	-	-	-	-	
Petrochemical plants	779	-	-	779	-	-	-	
Liquefaction plants	-	-	-	-	-	-	-	
Charcoal production plants	13	-	-	-	13	-	-	
Not elsewhere specified — transformation	-	-	-	-	-	-	-	
Energy sector	616	-	-	-	-	598	18	
LOSSES	7213	11	3191	201	2	2070	1738	

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	98652	4769	17135	31274	23862	12492	9120
FINAL ENERGY CONSUMPTION	96789	4769	17135	29412	23861	12492	9120
INDUSTRY	10169	1288	2687	1250	55	3044	1845
Iron and steel	7	2	-	-	-	5	-
Chemical and petrochem.	168	-	13	15	-	126	14
Non-metallic minerals	4399	1191	1832	868	-	505	3
Machinery	212	-	19	3	-	177	13
Transport equipment	0	-	-	-	-	0	-
Mining and quarrying	100	-	-	45	-	55	-
Food and tobacco	3780	94	710	88	8	1209	1671
Paper, pulp and print	131	-	49	-	-	44	38
Wood and wood products	318	-	9	2	45	257	5
Construction	311	-	30	225	-	56	-
Textile and leather	268	1	17	3	2	144	101
Not elsewhere specified	475	-	8	1	-	466	-
TRANSPORT	23894	8	441	23248	-	197	-
Domestic aviation	970	-	-	970	-	-	-
Road	21842	-	78	21626	-	138	-
Rail	607	8	-	599	-	-	-
Pipeline transport	422	-	363	-	-	59	-
Domestic navigation	3	-	-	3	-	-	-
Non-specified	50	-	-	50	-	-	-
OTHER	62726	3473	14007	4914	23806	9251	7275
Residential	49632	2463	10498	2592	23444	5679	4956
Comm. and public services	10573	1004	3377	200	329	3387	2276
Agriculture	2521	6	132	2122	33	185	43
NON-ENERGY USE	1863	-	-	1862	1	-	-
Statistical differences	-	-	-	-	-	-	-

1.9. THE ENERGY BALANCE for 2012

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	850	-	-	16	830	4	-
From other sources	298	-	-	-	-	298	-
Imports	2620	162	1264	1090	-	104	-
Exports	27	-	-	26	1	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	12	3	-	16	-7	-	-
GROSS CONSUMPTION	3753	165	1264	1096	822	406	-
TRANSFORMATION, INPUT	636	3	571	50	8	4	-
Electricity plants	5	-	1	-	-	4	-
Main activity producer combined heat and power (CHP) plants	388	-	388	-	-	-	-
Autoproducer combined heat and power (CHP) plants	41	-	24	17	-	-	-
Main activity producer heat plants	71	-	71	-	-	-	-
Autoproducer heat plants	101	3	87	3	8	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	30	-	-	30	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	0	-	-	-	0	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	512	-	-	27	-	114	371
Electricity plants	4	-	-	-	-	4	-
Main activity producer combined heat and power (CHP) plants	325	-	-	-	-	106	219
Autoproducer combined heat and power (CHP) plants	27	-	-	-	-	4	23
Main activity producer heat plants	66	-	-	-	-	-	66
Autoproducer heat plants	63	-	-	-	-	-	63
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	27	-	-	27	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	0	-	-	-	0	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	21	-	-	-	-	20	1
LOSSES	229	-	93	6	-	70	60

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	3379	162	600	1067	814	426	310
FINAL ENERGY CONSUMPTION	3316	162	600	1004	814	426	310
INDUSTRY	343	44	91	42	1	104	61
Iron and steel	0	0	-	-	-	0	-
Chemical and petrochem.	4	-	-	-	-	4	-
Non-metallic minerals	150	41	62	30	-	17	-
Machinery	7	-	1	-	-	6	-
Transport equipment	0	-	-	-	-	0	-
Mining and quarrying	3	-	-	1	-	2	-
Food and tobacco	128	3	24	3	-	41	57
Paper, pulp and print	5	-	2	-	-	2	1
Wood and wood products	10	-	-	-	1	9	-
Construction	11	-	1	8	-	2	-
Textile and leather	9	-	1	-	-	5	3
Not elsewhere specified	16	-	-	-	-	16	-
TRANSPORT	817	-	16	794	-	7	-
Domestic aviation	33	-	-	33	-	-	-
Road	747	-	3	739	-	5	-
Rail	20	-	-	20	-	-	-
Pipeline transport	15	-	13	-	-	2	-
Domestic navigation	0	-	-	0	-	-	-
Non-specified	2	-	-	2	-	-	-
OTHER	2156	118	493	168	813	315	249
Residential	1692	84	358	88	799	194	169
Comm. and public services	380	34	131	8	13	115	79
Agriculture	84	-	4	72	1	6	1
NON-ENERGY USE	63	-	-	63	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.10. THE ENERGY BALANCE for 2013

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	599	-	-	10	585	4	-
From other sources	161	-	-	-	-	161	-
Imports	1924	156	833	810	-	125	-
Exports	34	-	-	34	-	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-7	-6	1	-1	-1	-	-
GROSS CONSUMPTION	2643	150	834	785	584	290	-
TRANSFORMATION, INPUT	436	8	380	36	8	4	-
Electricity plants	6	-	1	-	1	4	-
Main activity producer combined heat and power (CHP) plants	270	-	270	-	-	-	-
Autoproducer combined heat and power (CHP) plants	31	-	17	14	-	-	-
Main activity producer heat plants	49	-	49	-	-	-	-
Autoproducer heat plants	58	8	43	1	6	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	21	-	-	21	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	350	-	-	18	-	78	254
Electricity plants	5	-	-	-	-	5	-
Main activity producer combined heat and power (CHP) plants	210	-	-	-	-	70	140
Autoproducer combined heat and power (CHP) plants	28	-	-	-	-	3	25
Main activity producer heat plants	41	-	-	-	-	-	41
Autoproducer heat plants	48	-	-	-	-	-	48
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	18	-	-	18	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	0	-	-	-	0	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	12	-	-	-	-	12	-
LOSSES	155	-	64	5	-	46	40

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	2390	142	390	762	576	306	214
FINAL ENERGY CONSUMPTION	2348	142	390	720	576	306	214
INDUSTRY	257	55	58	16	1	75	52
Iron and steel	0	0	0	0	0	0	0
Chemical and petrochem.	5	-	-	1	-	3	1
Non-metallic minerals	114	53	38	8	-	15	-
Machinery	5	-	1	-	-	4	-
Transport equipment	0	-	-	-	-	-	-
Mining and quarrying	3	-	-	2	-	1	-
Food and tobacco	98	2	16	2	1	30	47
Paper, pulp and print	2	-	-	-	-	1	1
Wood and wood products	6	-	1	-	-	5	-
Construction	5	-	1	3	-	1	-
Textile and leather	6	-	1	-	-	3	2
Not elsewhere specified	13	-	-	-	-	12	1
TRANSPORT	595	-	6	584	-	5	-
Domestic aviation	22	-	-	22	-	-	-
Road	556	-	1	552	-	3	-
Rail	9	-	-	9	-	-	-
Pipeline transport	7	-	5	-	-	2	-
Domestic navigation	0	0	0	0	0	0	0
Non-specified	1	-	-	1	-	-	-
OTHER	1496	87	326	120	575	226	162
Residential	1173	61	234	63	567	139	109
Comm. and public services	259	26	88	3	7	82	53
Agriculture	64	-	4	54	1	5	-
NON-ENERGY USE	42	-	-	42	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.11. THE ENERGY BALANCE for 2013

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	TeraJoule	
						Electricity	Heat
Primary Production	25085	-	4	404	24509	168	-
From other sources	6748	-	-	-	-	6748	-
Imports	80605	6486	34921	33938	15	5245	-
Exports	1410	-	-	1378	32	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-175	-184	66	-23	-34	-	-
GROSS CONSUMPTION	110853	6302	34991	32941	24458	12161	-
TRANSFORMATION, INPUT	18289	348	15938	1499	336	168	-
Electricity plants	218	-	30	10	10	168	-
Main activity producer combined heat and power (CHP) plants	11318	-	11318	-	-	-	-
Autoproducer combined heat and power (CHP) plants	1304	-	713	565	26	-	-
Main activity producer heat plants	2082	-	2082	-	-	-	-
Autoproducer heat plants	2466	348	1795	54	269	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	870	-	-	870	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	31	-	-	-	31	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	14692	-	-	775	16	3261	10640
Electricity plants	200	-	-	-	-	200	-
Main activity producer combined heat and power (CHP) plants	8805	-	-	-	-	2935	5870
Autoproducer combined heat and power (CHP) plants	1172	-	-	-	-	126	1046
Main activity producer heat plants	1700	-	-	-	-	-	1700
Autoproducer heat plants	2024	-	-	-	-	-	2024
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	775	-	-	775	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	16	-	-	-	16	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	515	-	-	-	-	492	23
LOSSES	6614	34	2707	244	11	1945	1673

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	100127	5920	16346	31973	24127	12817	8944
FINAL ENERGY CONSUMPTION	98318	5920	16346	30164	24127	12817	8944
INDUSTRY	10692	2253	2445	692	35	3146	2121
Iron and steel	14	2	1	-	-	11	-
Chemical and petrochem.	215	-	21	18	7	144	25
Non-metallic minerals	4711	2173	1589	339	-	606	4
Machinery	183	-	13	-	-	166	4
Transport equipment	4	-	-	-	-	4	-
Mining and quarrying	146	-	-	85	-	61	-
Food and tobacco	4068	78	676	90	15	1247	1962
Paper, pulp and print	139	-	74	-	-	40	25
Wood and wood products	212	-	4	-	13	191	4
Construction	242	-	45	160	-	37	-
Textile and leather	244	-	17	-	-	148	79
Not elsewhere specified	514	-	5	-	-	491	18
TRANSPORT	24899	-	290	24397	-	212	-
Domestic aviation	918	-	-	918	-	-	-
Road	23142	-	65	22940	-	137	-
Rail	383	-	-	383	-	-	-
Pipeline transport	300	-	225	-	-	75	-
Domestic navigation	3	-	-	3	-	-	-
Non-specified	153	-	-	153	-	-	-
OTHER	62727	3667	13611	5075	24092	9459	6823
Residential	49127	2548	9788	2661	23769	5805	4556
Comm. and public services	10900	1099	3675	141	291	3465	2229
Agriculture	2700	20	148	2273	32	189	38
NON-ENERGY USE	1809	-	-	1809	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.12. THE ENERGY BALANCE for 2013

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	853	-	-	14	833	6	-
From other sources	230	-	-	-	-	230	-
Imports	2748	221	1190	1157	1	179	-
Exports	48	-	-	47	1	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-4	-6	2	-	-	-	-
GROSS CONSUMPTION	3779	215	1192	1124	833	415	-
TRANSFORMATION, INPUT	623	12	543	51	11	6	-
Electricity plants	7	-	1	-	-	6	-
Main activity producer combined heat and power (CHP) plants	386	-	386	-	-	-	-
Autoproducer combined heat and power (CHP) plants	44	-	24	19	1	-	-
Main activity producer heat plants	71	-	71	-	-	-	-
Autoproducer heat plants	84	12	61	2	9	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	30	-	-	30	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	501	-	-	26	1	111	363
Electricity plants	7	-	-	-	-	7	-
Main activity producer combined heat and power (CHP) plants	300	-	-	-	-	100	200
Autoproducer combined heat and power (CHP) plants	40	-	-	-	-	4	36
Main activity producer heat plants	58	-	-	-	-	-	58
Autoproducer heat plants	69	-	-	-	-	-	69
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	26	-	-	26	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	17	-	-	-	-	17	-
LOSSES	221	1	91	6	-	66	57

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	3419	202	558	1093	823	437	306
FINAL ENERGY CONSUMPTION	3357	202	558	1031	823	437	306
INDUSTRY	369	78	83	24	2	108	74
Iron and steel	0	0	0	-	-	0	-
Chemical and petrochem.	8	-	-	1	1	5	1
Non-metallic minerals	163	76	54	12	-	21	-
Machinery	7	-	1	-	-	6	-
Transport equipment	0	-	-	-	-	0	-
Mining and quarrying	5	-	-	3	-	2	-
Food and tobacco	139	2	23	3	1	43	67
Paper, pulp and print	2	-	-	-	-	1	1
Wood and wood products	9	-	2	-	-	7	-
Construction	8	-	2	5	-	1	-
Textile and leather	9	-	1	-	-	5	3
Not elsewhere specified	19	-	-	-	-	17	2
TRANSPORT	851	-	10	834	-	7	-
Domestic aviation	31	-	-	31	-	-	-
Road	796	-	2	789	-	5	-
Rail	13	-	-	13	-	-	-
Pipeline transport	10	-	8	-	-	2	-
Domestic navigation	0	-	-	0	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	2137	124	465	173	821	322	232
Residential	1675	87	334	91	810	198	155
Comm. and public services	372	37	126	5	10	118	76
Agriculture	90	-	5	77	1	6	1
NON-ENERGY USE	62	-	-	62	-	-	-
Statistical differences	-	-	-	-	-	-	-

1.13. THE ENERGY BALANCE for 2014

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	654	-	0	8	641	5	-
From other sources	224	-	-	-	-	224	-
Imports	1801	88	851	799	0	63	-
Exports	22	-	-	18	4	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	12	7	-1	14	-8	-	-
GROSS CONSUMPTION	2669	95	850	803	629	292	-
TRANSFORMATION, INPUT	443	2	396	28	12	5	-
Electricity plants	7	-	1	0	1	5	-
Main activity producer combined heat and power (CHP) plants	283	-	283	-	-	-	-
Autoproducer combined heat and power (CHP) plants	39	-	25	11	3	-	-
Main activity producer heat plants	46	-	46	-	-	-	-
Autoproducer heat plants	50	2	41	0	7	-	-
Oil refineries	0	-	-	0	-	-	-
Petrochemical plants	17	-	-	17	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	352	-	-	18	1	83	250
Electricity plants	6	-	-	-	-	6	-
Main activity producer combined heat and power (CHP) plants	208	-	-	-	-	71	137
Autoproducer combined heat and power (CHP) plants	35	-	-	-	-	6	29
Main activity producer heat plants	40	-	-	-	-	-	40
Autoproducer heat plants	44	-	-	-	-	-	44
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	18	-	-	18	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	17	-	-	-	-	17	0
LOSSES	152	0	68	4	0	40	40

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	2409	93	386	789	618	313	210
FINAL ENERGY CONSUMPTION	2357	93	386	740	615	313	210
INDUSTRY	235	33	55	10	2	77	58
Iron and steel	1	-	-	-	-	1	-
Chemical and petrochem.	6	-	1	-	-	4	1
Non-metallic minerals	73	30	31	-	-	12	0
Machinery	4	-	1	-	-	3	0
Transport equipment	1	-	-	-	-	1	-
Mining and quarrying	3	-	-	2	-	1	-
Food and tobacco	112	3	17	4	1	34	53
Paper, pulp and print	4	-	2	-	-	1	1
Wood and wood products	7	-	1	-	1	5	0
Construction	6	-	1	4	-	1	-
Textile and leather	6	-	1	-	-	3	2
Not elsewhere specified	12	-	-	-	-	11	1
TRANSPORT	618	-	8	605	-	5	-
Domestic aviation	25	-	-	25	-	-	-
Road	581	-	1	576	-	4	-
Rail	1	-	-	1	-	-	-
Pipeline transport	8	-	7	-	-	1	-
Domestic navigation	1	-	-	1	-	-	-
Non-specified	2	-	-	2	-	-	-
OTHER	1504	60	323	125	613	231	152
Residential	1195	42	239	64	600	143	107
Comm. and public services	245	18	82	5	12	84	44
Agriculture	64	0	2	56	1	4	1
NON-ENERGY USE	52	-	-	49	3	-	-
Statistical differences	-	-	-	-	-	-	-

1.14. THE ENERGY BALANCE for 2014

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	TeraJoule	
						Electricity	Heat
Primary Production	27444	-	3	341	26879	221	-
From other sources	9396	-	-	-	-	9396	-
Imports	75622	3714	35655	33571	49	2633	-
Exports	939	-	-	785	154	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	524	297	-44	617	-346	-	-
GROSS CONSUMPTION	112047	4011	35614	33744	26428	12250	-
TRANSFORMATION, INPUT	18765	80	16577	1320	567	221	-
Electricity plants	288	-	40	9	18	221	-
Main activity producer combined heat and power (CHP) plants	11839	-	11839	-	-	-	-
Autoproducer combined heat and power (CHP) plants	1684	-	1052	472	160	-	-
Main activity producer heat plants	1922	-	1922	-	-	-	-
Autoproducer heat plants	2196	80	1724	37	355	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	802	-	-	802	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	34	-	-	-	34	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	14655	-	-	710	8	3471	10466
Electricity plants	252	-	-	-	-	252	-
Main activity producer combined heat and power (CHP) plants	8748	-	-	-	-	2998	5750
Autoproducer combined heat and power (CHP) plants	1432	-	-	-	-	221	1211
Main activity producer heat plants	1675	-	-	-	-	-	1675
Autoproducer heat plants	1830	-	-	-	-	-	1830
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	710	-	-	710	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	8	-	-	-	8	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	693	-	-	-	-	674	19
LOSSES	6434	29	2866	160	18	1701	1660

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	100810	3902	16171	32974	25851	13125	8787
FINAL ENERGY CONSUMPTION	98709	3902	16171	31003	25721	13125	8787
INDUSTRY	9697	1333	2275	424	29	3219	2417
Iron and steel	29	-	-	-	-	29	-
Chemical and petrochem.	234	-	29	-	-	176	29
Non-metallic minerals	3096	1216	1346	-	-	529	5
Machinery	140	-	20	-	-	117	3
Transport equipment	30	-	-	-	-	30	-
Mining and quarrying	147	-	-	88	-	59	-
Food and tobacco	4614	117	705	171	12	1383	2226
Paper, pulp and print	118	-	59	-	-	30	29
Wood and wood products	236	-	9	-	17	205	5
Construction	286	-	78	165	-	43	-
Textile and leather	264	-	29	-	-	147	88
Not elsewhere specified	503	-	-	-	-	471	32
TRANSPORT	25876	-	352	25348	-	176	-
Domestic aviation	1071	-	-	1071	-	-	-
Road	24366	-	59	24160	-	147	-
Rail	32	-	-	32	-	-	-
Pipeline transport	322	-	293	-	-	29	-
Domestic navigation	27	-	-	27	-	-	-
Non-specified	58	-	-	58	-	-	-
OTHER	63136	2569	13544	5231	25692	9730	6370
Residential	50058	1767	10012	2665	25167	5976	4471
Comm. and public services	10355	784	3462	197	481	3580	1851
Agriculture	2723	18	70	2369	44	174	48
NON-ENERGY USE	2101	-	-	1971	130	-	-
Statistical differences	-	-	-	-	-	-	-

1.15. THE ENERGY BALANCE for 2014

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	934	-	0	12	915	7	-
From other sources	320	-	-	-	-	320	-
Imports	2575	127	1215	1142	1	90	-
Exports	31	-	-	26	5	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	17	10	-1	21	-13	-	-
GROSS CONSUMPTION	3815	137	1214	1149	898	417	-
TRANSFORMATION, INPUT	638	3	565	44	19	7	-
Electricity plants	9	-	1	0	1	7	-
Main activity producer combined heat and power (CHP) plants	404	-	404	-	-	-	-
Autoproducer combined heat and power (CHP) plants	57	-	36	16	5	-	-
Main activity producer heat plants	66	-	66	-	-	-	-
Autoproducer heat plants	74	3	59	1	11	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	27	-	-	27	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	2	-	-	-	2	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	500	-	-	24	1	118	357
Electricity plants	9	-	-	-	-	9	-
Main activity producer combined heat and power (CHP) plants	297	-	-	-	-	101	196
Autoproducer combined heat and power (CHP) plants	49	-	-	-	-	8	41
Main activity producer heat plants	57	-	-	-	-	-	57
Autoproducer heat plants	62	-	-	-	-	-	62
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	24	-	-	24	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	23	-	-	-	-	23	0
LOSSES	218	1	98	4	0	58	57

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	3436	133	551	1125	880	447	300
FINAL ENERGY CONSUMPTION	3365	133	551	1058	876	447	300
INDUSTRY	330	45	78	14	1	109	83
Iron and steel	1	-	-	-	-	1	-
Chemical and petrochem.	8	-	1	-	-	6	1
Non-metallic minerals	105	41	46	-	-	18	-
Machinery	5	-	1	-	-	4	-
Transport equipment	1	-	-	-	-	1	-
Mining and quarrying	5	-	-	3	-	2	-
Food and tobacco	156	4	24	5	0	47	76
Paper, pulp and print	4	-	2	-	-	1	1
Wood and wood products	8	0	-	-	1	7	0
Construction	10	-	3	6	-	1	-
Textile and leather	9	-	1	-	-	5	3
Not elsewhere specified	18	-	-	-	-	16	2
TRANSPORT	884	-	12	866	-	6	-
Domestic aviation	37	-	-	37	-	-	-
Road	832	-	2	825	-	5	-
Rail	1	-	-	1	-	-	-
Pipeline transport	11	-	10	-	-	1	-
Domestic navigation	1	-	-	1	-	-	-
Non-specified	2	-	-	2	-	-	-
OTHER	2151	88	461	178	875	332	217
Residential	1705	60	341	91	857	204	152
Comm. and public services	354	27	118	7	17	122	63
Agriculture	92	1	2	80	1	6	2
NON-ENERGY USE	71	-	-	67	4	-	-
Statistical differences	-	-	-	-	-	-	-

1.16. THE ENERGY BALANCE for 2015

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	655	-	0	7	644	4	-
From other sources	283	-	-	-	-	283	-
Imports	1766	98	815	851	0	2	-
Exports	16	-	-	14	2	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-2	4	1	-15	8	-	-
GROSS CONSUMPTION	2686	102	816	829	650	289	-
TRANSFORMATION, INPUT	415	2	365	23	21	4	-
Electricity plants	4	-	-	0	-	4	-
Main activity producer combined heat and power (CHP) plants	279	-	279	-	-	-	-
Autoproducer combined heat and power (CHP) plants	31	-	14	7	10	-	-
Main activity producer heat plants	39	-	39	-	-	-	-
Autoproducer heat plants	44	2	33	0	9	-	-
Oil refineries	-	-	-	0	-	-	-
Petrochemical plants	16	-	-	16	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	2	-	-	-	2	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	331	-	-	11	-	81	239
Electricity plants	5	-	-	-	-	5	-
Main activity producer combined heat and power (CHP) plants	216	-	-	-	-	73	143
Autoproducer combined heat and power (CHP) plants	18	-	-	-	-	3	15
Main activity producer heat plants	43	-	-	-	-	-	43
Autoproducer heat plants	38	-	-	-	-	-	38
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	11	-	-	11	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	0	-	-	-	0	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	18	-	-	-	-	16	2
LOSSES	129	0	58	3	0	33	35

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	2455	100	393	814	629	317	202
FINAL ENERGY CONSUMPTION	2410	100	393	778	620	317	202
INDUSTRY	209	40	60	4	1	65	39
Iron and steel	0	-	-	-	-	0	-
Chemical and petrochem.	5	-	1	-	-	4	-
Non-metallic minerals	88	39	35	-	-	14	0
Machinery	4	0	0	0	-	4	0
Transport equipment	0	-	-	-	0	0	-
Mining and quarrying	2	-	-	1	-	1	-
Food and tobacco	94	1	21	-	1	34	37
Paper, pulp and print	1	-	1	-	-	-	-
Wood and wood products	3	-	-	-	-	3	0
Construction	4	-	1	3	-	-	-
Textile and leather	6	-	1	-	-	3	2
Not elsewhere specified	2	-	-	-	-	2	-
TRANSPORT	662	-	20	637	-	5	-
Domestic aviation	25	-	-	25	-	-	-
Road	621	-	13	604	-	4	-
Rail	6	-	-	6	-	-	-
Pipeline transport	8	-	7	-	-	1	-
Domestic navigation	1	-	-	1	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	1539	60	313	137	619	247	163
Residential	1205	42	226	66	609	144	118
Comm. and public services	260	17	85	5	9	99	45
Agriculture	74	1	2	66	1	4	-
NON-ENERGY USE	45	-	-	36	9	-	-
Statistical differences	-	-	-	-	-	-	-

1.17. THE ENERGY BALANCE for 2015

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	TeraJoule	
						Electricity	Heat
Primary Production	27482	-	3	285	27001	193	-
From other sources	11879	-	-	-	-	11879	-
Imports	74076	4114	34146	35712	42	62	-
Exports	726	-	-	627	99	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-59	174	48	-602	321	-	-
GROSS CONSUMPTION	112652	4288	34197	34768	27265	12134	-
TRANSFORMATION, INPUT	17380	70	15309	946	862	193	-
Electricity plants	214	-	1	6	14	193	-
Main activity producer combined heat and power (CHP) plants	11286	-	11286	-	-	-	-
Autoproducer combined heat and power (CHP) plants	1236	-	587	262	387	-	-
Main activity producer heat plants	2040	-	2040	-	-	-	-
Autoproducer heat plants	1872	70	1395	18	389	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	660	-	-	660	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	72	-	-	-	72	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	14122	-	-	483	13	3584	10042
Electricity plants	199	-	-	-	-	199	-
Main activity producer combined heat and power (CHP) plants	9039	-	-	-	-	3046	5993
Autoproducer combined heat and power (CHP) plants	789	-	-	-	-	140	649
Main activity producer heat plants	1805	-	-	-	-	-	1805
Autoproducer heat plants	1595	-	-	-	-	-	1595
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	483	-	-	483	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	13	-	-	-	13	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	721	-	-	2	-	647	72
LOSSES	5531	2	2434	151	7	1437	1500

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	103142	4216	16454	34152	26409	13441	8470
FINAL ENERGY CONSUMPTION	101231	4216	16454	32602	26048	13441	8470
INDUSTRY	9043	1705	2506	298	62	2782	1690
Iron and steel	8	-	-	-	-	8	-
Chemical and petrochem.	214	-	28	6	4	161	15
Non-metallic minerals	3715	1648	1469	29	-	568	1
Machinery	180	1	6	2	-	170	1
Transport equipment	3	-	-	-	1	2	-
Mining and quarrying	119	-	-	61	-	58	-
Food and tobacco	4014	56	869	41	43	1427	1578
Paper, pulp and print	108	-	55	-	-	32	21
Wood and wood products	163	-	-	5	13	145	-
Construction	201	-	37	143	-	20	1
Textile and leather	232	-	32	2	1	129	68
Not elsewhere specified	86	-	10	9	-	62	5
TRANSPORT	28133	-	873	27084	-	176	-
Domestic aviation	1008	-	-	1008	-	-	-
Road	26454	-	576	25724	-	154	-
Rail	258	-	-	258	-	-	-
Pipeline transport	319	-	297	-	-	22	-
Domestic navigation	28	-	-	28	-	-	-
Non-specified	66	-	-	66	-	-	-
OTHER	64055	2511	13075	5220	25986	10483	6780
Residential	50114	1733	9442	2312	25574	6118	4935
Comm. and public services	10952	749	3544	234	383	4198	1844
Agriculture	2989	29	89	2674	29	167	1
NON-ENERGY USE	1911	-	-	1550	361	-	-
Statistical differences	-	-	-	-	-	-	-

1.18. THE ENERGY BALANCE for 2015

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	934	-	0	10	918	6	-
From other sources	405	-	-	-	-	405	-
Imports	2522	140	1164	1216	-	2	-
Exports	24	-	-	21	3	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-5	6	1	-23	11	-	-
GROSS CONSUMPTION	3832	146	1165	1182	926	413	-
TRANSFORMATION, INPUT	590	2	522	31	29	6	-
Electricity plants	6	-	-	0	-	6	-
Main activity producer combined heat and power (CHP) plants	398	-	398	-	-	-	-
Autoproducer combined heat and power (CHP) plants	43	-	20	9	14	-	-
Main activity producer heat plants	56	-	56	-	-	-	-
Autoproducer heat plants	63	2	48	-	13	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	22	-	-	22	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	2	-	-	-	2	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	474	-	-	16	1	115	342
Electricity plants	6	-	-	-	-	6	-
Main activity producer combined heat and power (CHP) plants	308	-	-	-	-	104	204
Autoproducer combined heat and power (CHP) plants	27	-	-	-	-	5	22
Main activity producer heat plants	62	-	-	-	-	-	62
Autoproducer heat plants	54	-	-	-	-	-	54
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	16	-	-	16	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	24	-	-	-	-	22	2
LOSSES	188	-	83	5	0	49	51

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	3504	144	560	1162	898	451	289
FINAL ENERGY CONSUMPTION	3441	144	560	1110	887	451	289
INDUSTRY	305	57	85	9	2	94	58
Iron and steel	0	-	-	-	-	0	-
Chemical and petrochem.	7	-	1	-	-	5	1
Non-metallic minerals	124	55	50	-	-	19	-
Machinery	6	0	0	0	-	6	-
Transport equipment	0	-	-	-	0	-	-
Mining and quarrying	4	-	-	2	-	2	-
Food and tobacco	138	2	30	2	2	48	54
Paper, pulp and print	4	-	2	-	-	1	1
Wood and wood products	5	0	-	-	-	5	0
Construction	7	-	1	5	-	1	-
Textile and leather	8	-	1	-	-	5	2
Not elsewhere specified	2	-	-	-	-	2	-
TRANSPORT	943	-	28	909	-	6	-
Domestic aviation	34	-	-	34	-	-	-
Road	888	-	20	863	-	5	-
Rail	9	-	-	9	-	-	-
Pipeline transport	9	-	8	-	-	1	-
Domestic navigation	1	-	-	1	-	-	-
Non-specified	2	-	-	2	-	-	-
OTHER	2193	87	447	192	885	351	231
Residential	1722	60	323	94	871	205	169
Comm. and public services	368	26	121	7	12	140	62
Agriculture	103	1	3	91	2	6	-
NON-ENERGY USE	63	-	-	52	11	-	-
Statistical differences	-	-	-	-	-	-	-

1.19. THE ENERGY BALANCE for 2016

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	709	-	0	7	698	4	-
From other sources	286	-	-	-	-	286	-
Imports	1818	60	838	920	0	-	-
Exports	15	-	-	15	-	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-2	15	-1	-16	-	-	-
GROSS CONSUMPTION	2796	75	837	896	698	290	-
TRANSFORMATION, INPUT	424	1	369	30	20	4	-
Electricity plants	4	-	-	0	-	4	-
Main activity producer combined heat and power (CHP) plants	279	-	279	-	-	-	-
Autoproducer combined heat and power (CHP) plants	32	-	12	11	9	-	-
Main activity producer heat plants	44	-	43	-	1	-	-
Autoproducer heat plants	46	1	35	1	9	-	-
Oil refineries	-	-	-	0	-	-	-
Petrochemical plants	18	-	-	18	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	346	-	-	15	-	78	253
Electricity plants	4	-	-	-	-	4	-
Main activity producer combined heat and power (CHP) plants	217	-	-	-	-	70	147
Autoproducer combined heat and power (CHP) plants	22	-	-	-	-	4	18
Main activity producer heat plants	47	-	-	-	-	-	47
Autoproducer heat plants	41	-	-	-	-	-	41
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	15	-	-	15	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	0	-	-	-	0	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	19	-	-	-	-	16	3
LOSSES	128	0	50	4	0	37	37

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	2571	74	418	877	678	311	213
FINAL ENERGY CONSUMPTION	2525	74	418	840	669	311	213
INDUSTRY	203	24	61	9	1	64	44
Iron and steel	0	-	-	-	-	0	-
Chemical and petrochem.	5	-	1	-	-	4	-
Non-metallic minerals	69	22	33	3	-	11	0
Machinery	4	0	0	0	-	4	0
Transport equipment	0	-	-	-	0	0	-
Mining and quarrying	2	-	-	1	-	1	-
Food and tobacco	103	2	22	2	1	34	42
Paper, pulp and print	1	-	1	-	-	-	-
Wood and wood products	4	-	1	-	-	3	0
Construction	5	-	1	3	-	1	-
Textile and leather	7	-	1	-	-	4	2
Not elsewhere specified	3	-	1	-	-	2	-
TRANSPORT	717	-	25	686	-	6	-
Domestic aviation	33	-	-	33	-	-	-
Road	661	-	19	638	-	4	-
Rail	13	-	-	13	-	-	-
Pipeline transport	8	-	6	-	-	2	-
Domestic navigation	1	-	-	1	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	1605	50	332	145	668	241	169
Residential	1257	31	236	69	658	140	123
Comm. and public services	268	18	94	4	9	97	46
Agriculture	80	1	2	72	1	4	-
NON-ENERGY USE	46	-	-	37	9	-	-
Statistical differences	-	-	-	-	-	-	-

1.20. THE ENERGY BALANCE for 2016

SUPPLY AND CONSUMPTION	Total products	TeraJoule					
		Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	29584	-	4	273	29149	158	-
From other sources	11967	-	-	-	-	11967	-
Imports	76320	2519	35159	38623	6	13	-
Exports	634	-	-	629	5	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-75	621	-58	-702	64	-	-
GROSS CONSUMPTION	117162	3140	35105	37565	29214	12138	-
TRANSFORMATION, INPUT	17732	74	15480	1208	812	158	-
Electricity plants	168	-	-	8	2	158	-
Main activity producer combined heat and power (CHP) plants	11278	5	11273	-	-	-	-
Autoproducer combined heat and power (CHP) plants	1222	-	387	476	359	-	-
Main activity producer heat plants	2276	-	2254	-	22	-	-
Autoproducer heat plants	2049	69	1566	44	370	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	680	-	-	680	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	59	-	-	-	59	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	14495	-	-	607	16	3266	10606
Electricity plants	161	-	-	-	-	161	-
Main activity producer combined heat and power (CHP) plants	9134	-	-	-	-	2954	6180
Autoproducer combined heat and power (CHP) plants	887	-	-	-	-	151	736
Main activity producer heat plants	1981	-	-	-	-	-	1981
Autoproducer heat plants	1709	-	-	-	-	-	1709
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	607	-	-	607	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	16	-	-	-	16	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	730	-	-	1	-	653	76
LOSSES	5405	7	2115	172	1	1543	1567

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	107790	3059	17510	36791	28417	13050	8963
FINAL ENERGY CONSUMPTION	105941	3054	17510	35256	28108	13050	8963
INDUSTRY	8598	983	2510	476	38	2703	1888
Iron and steel	7	-	-	-	-	7	-
Chemical and petrochem.	221	-	28	11	-	163	19
Non-metallic minerals	2945	916	1382	163	-	481	3
Machinery	192	2	17	3	-	166	4
Transport equipment	12	-	1	-	1	10	-
Mining and quarrying	78	-	-	33	-	45	-
Food and tobacco	4277	63	909	90	28	1426	1761
Paper, pulp and print	108	-	49	-	-	33	26
Wood and wood products	163	-	-	14	5	144	-
Construction	187	-	18	143	2	23	1
Textile and leather	263	1	33	3	1	137	68
Not elsewhere specified	165	1	73	16	1	68	6
TRANSPORT	29991	-	1067	28699	-	225	-
Domestic aviation	1410	-	-	1410	-	-	-
Road	27640	-	810	26678	-	152	-
Rail	542	-	-	542	-	-	-
Pipeline transport	330	-	257	-	-	73	-
Domestic navigation	21	-	-	21	-	-	-
Non-specified	48	-	-	48	-	-	-
OTHER	67352	2071	13933	6081	28070	10122	7075
Residential	52724	1282	9899	2912	27597	5887	5147
Comm. and public services	11250	761	3948	126	425	4064	1926
Agriculture	3378	28	86	3043	48	171	2
NON-ENERGY USE	1849	5	-	1535	309	-	-
Statistical differences	-	-	-	-	-	-	-

1.21. THE ENERGY BALANCE for 2016

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	1010	-	0	9	996	5	-
From other sources	408	-	-	-	-	408	-
Imports	2597	85	1198	1314	-	-	-
Exports	22	-	-	22	-	-	-
International bunkers	-	-	-	-	-	-	-
Stock changes	-4	22	-2	-25	1	-	-
GROSS CONSUMPTION	3989	107	1196	1276	997	413	-
TRANSFORMATION, INPUT	604	2	528	41	28	5	-
Electricity plants	5	-	-	0	-	5	-
Main activity producer combined heat and power (CHP) plants	399	-	399	-	-	-	-
Autoproducer combined heat and power (CHP) plants	45	-	17	16	12	-	-
Main activity producer heat plants	63	-	62	-	1	-	-
Autoproducer heat plants	66	2	50	1	13	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	26	-	-	26	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	2	-	-	-	2	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	495	-	-	22	1	111	361
Electricity plants	5	-	-	-	-	5	-
Main activity producer combined heat and power (CHP) plants	312	-	-	-	-	101	211
Autoproducer combined heat and power (CHP) plants	30	-	-	-	-	5	25
Main activity producer heat plants	67	-	-	-	-	-	67
Autoproducer heat plants	58	-	-	-	-	-	58
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	22	-	-	22	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	1	-	-	-	1	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	25	-	-	-	-	22	3
LOSSES	182	-	72	4	0	53	53

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	3673	105	596	1253	970	444	305
FINAL ENERGY CONSUMPTION	3608	105	596	1201	957	444	305
INDUSTRY	290	35	85	14	1	92	63
Iron and steel	0	-	-	-	-	0	-
Chemical and petrochem.	6	-	1	-	-	5	-
Non-metallic minerals	101	33	47	5	-	16	-
Machinery	6	0	0	0	-	6	-
Transport equipment	0	-	-	-	0	-	-
Mining and quarrying	4	-	-	2	-	2	-
Food and tobacco	146	2	31	3	1	49	60
Paper, pulp and print	4	-	2	-	-	1	1
Wood and wood products	5	0	-	-	-	5	0
Construction	6	-	1	4	-	1	-
Textile and leather	8	-	1	-	-	5	2
Not elsewhere specified	4	-	2	-	-	2	-
TRANSPORT	1023	-	36	980	-	7	-
Domestic aviation	48	-	-	48	-	-	-
Road	942	-	27	910	-	5	-
Rail	19	-	-	19	-	-	-
Pipeline transport	11	-	9	-	-	2	-
Domestic navigation	2	-	-	2	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	2295	70	475	207	956	345	242
Residential	1797	44	337	99	940	201	176
Comm. and public services	384	25	135	5	15	138	66
Agriculture	114	1	3	103	1	6	-
NON-ENERGY USE	65	-	-	52	13	-	-
Statistical differences	-	-	-	-	-	-	-

1.22. THE ENERGY BALANCE for 2017

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	770	-	0	5	760	5	-
From other sources	195	-	-	-	-	195	-
Imports	2012	120	835	958	2	97	-
Exports	34	0	-	34	0	0	-
International bunkers	-	-	-	-	-	-	-
Stock changes	4	15	-1	-8	-2	-	-
GROSS CONSUMPTION	2939	105	836	937	764	297	-
TRANSFORMATION, INPUT	411	2	360	24	20	5	-
Electricity plants	7	-	-	0	2	5	-
Main activity producer combined heat and power (CHP) plants	260	-	260	-	-	-	-
Autoproducer combined heat and power (CHP) plants	29	-	15	9	5	-	-
Main activity producer heat plants	50	0	49	-	1	-	-
Autoproducer heat plants	49	2	36	1	10	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	14	-	-	14	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	2	-	-	-	2	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	336	-	-	14	0	77	245
Electricity plants	5	-	-	-	-	5	-
Main activity producer combined heat and power (CHP) plants	213	-	-	-	-	68	145
Autoproducer combined heat and power (CHP) plants	24	-	-	-	-	4	20
Main activity producer heat plants	42	-	-	-	-	-	42
Autoproducer heat plants	38	-	-	-	-	-	38
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	14	-	-	14	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	0	-	-	-	0	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	17	-	0	-	-	15	2
LOSSES	128	0	49	2	0	37	40

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	2719	103	427	925	744	317	203
FINAL ENERGY CONSUMPTION	2671	102	427	889	733	317	203
INDUSTRY	217	30	58	18	0	65	46
Iron and steel	0	-	0	-	-	0	-
Chemical and petrochem.	6	-	1	-	0	4	1
Non-metallic minerals	83	29	31	12	0	11	0
Machinery	4	0	0	0	-	4	-
Transport equipment	0	-	0	-	0	-	-
Mining and quarrying	2	-	-	1	-	1	-
Food and tobacco	103	1	24	1	0	34	43
Paper, pulp and print	1	-	0	-	-	1	0
Wood and wood products	2	-	0	0	0	2	-
Construction	6	-	1	4	-	1	0
Textile and leather	7	-	0	0	0	5	2
Not elsewhere specified	3	-	1	0	0	2	-
TRANSPORT	734	-	24	703	-	7	-
Domestic aviation	47	-	-	47	-	-	-
Road	665	-	17	644	-	4	-
Rail	10	-	-	10	-	-	-
Pipeline transport	10	-	7	-	-	3	-
Domestic navigation	1	-	-	1	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	1720	72	345	168	733	245	157
Residential	1346	54	250	66	720	141	115
Comm. and public services	267	17	93	3	12	100	42
Agriculture	107	1	2	99	1	4	0
NON-ENERGY USE	48	1	-	36	11	-	-
Statistical differences	-	-	-	-	-	-	-

1.23. THE ENERGY BALANCE for 2017

SUPPLY AND CONSUMPTION	Total products	TeraJoule					
		Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	32315	-	4	222	31885	204	-
From other sources	8208	-	-	-	-	8208	-
Imports	84351	5017	35006	40157	85	4086	-
Exports	1403	1	-	1401	1	0	-
International bunkers	-	-	-	-	-	-	-
Stock changes	236	625	-52	-315	-22	-	-
GROSS CONSUMPTION	123235	4391	35062	39293	31991	12498	-
TRANSFORMATION, INPUT	17165	74	15039	1117	731	204	-
Electricity plants	299	-	-	11	84	204	-
Main activity producer combined heat and power (CHP) plants	10883	-	10883	-	-	-	-
Autoproducer combined heat and power (CHP) plants	1238	-	628	412	198	-	-
Main activity producer heat plants	2042	5	2014	-	23	-	-
Autoproducer heat plants	1975	69	1514	27	365	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	667	-	-	667	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	61	-	-	-	61	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	14130	-	-	635	14	3230	10251
Electricity plants	229	-	-	-	-	229	-
Main activity producer combined heat and power (CHP) plants	8904	-	-	-	-	2831	6073
Autoproducer combined heat and power (CHP) plants	990	-	-	-	-	170	820
Main activity producer heat plants	1750	-	-	-	-	-	1750
Autoproducer heat plants	1608	-	-	-	-	-	1608
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	635	-	-	635	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	14	-	-	-	14	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	709	-	6	-	-	634	69
LOSSES	5403	12	2058	126	2	1546	1659

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SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	114088	4305	17959	38685	31272	13344	8523
FINAL ENERGY CONSUMPTION	111962	4287	17959	37097	30752	13344	8523
INDUSTRY	9213	1212	2483	768	43	2749	1958
Iron and steel	6	-	0	-	-	6	-
Chemical and petrochem.	247	-	29	-	2	161	55
Non-metallic minerals	3446	1161	1318	488	1	478	0
Machinery	187	2	10	3	-	168	4
Transport equipment	13	-	2	-	1	10	-
Mining and quarrying	91	-	-	39	-	52	-
Food and tobacco	4385	49	1021	49	33	1437	1796
Paper, pulp and print	69	-	11	-	-	35	23
Wood and wood products	103	-	0	5	3	95	-
Construction	231	-	24	174	-	32	1
Textile and leather	280	-	15	3	1	187	74
Not elsewhere specified	155	-	53	7	2	88	5
TRANSPORT	30779	-	1052	29430	-	297	-
Domestic aviation	1999	-	-	1999	-	-	-
Road	27830	-	738	26936	-	156	-
Rail	437	-	-	437	-	-	-
Pipeline transport	455	-	314	-	-	141	-
Domestic navigation	20	-	-	20	-	-	-
Non-specified	38	-	-	38	-	-	-
OTHER	71970	3075	14424	6899	30709	10298	6565
Residential	56254	2254	10476	2642	30165	5895	4822
Comm. and public services	11195	773	3860	98	495	4227	1742
Agriculture	4521	48	88	4159	49	176	1
NON-ENERGY USE	2126	18	-	1588	520	-	-
Statistical differences	-	-	-	-	-	-	-

1.24. THE ENERGY BALANCE for 2017

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	1100	-	0	7	1086	7	-
From other sources	279	-	-	-	-	279	-
Imports	2874	171	1193	1368	3	139	-
Exports	48	0	-	48	0	0	-
International bunkers	-	-	-	-	-	-	-
Stock changes	10	22	-2	-9	-1	-	-
GROSS CONSUMPTION	4195	149	1195	1336	1090	425	-
TRANSFORMATION, INPUT	584	2	513	36	26	7	-
Electricity plants	10	-	-	-	3	7	-
Main activity producer combined heat and power (CHP) plants	371	-	371	-	-	-	-
Autoproducer combined heat and power (CHP) plants	42	-	21	14	7	-	-
Main activity producer heat plants	70	0	69	-	1	-	-
Autoproducer heat plants	68	2	52	1	13	-	-
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	21	-	-	21	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	2	-	-	-	2	-	-
Not elsewhere specified - transformation	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	481	-	-	21	-	110	350
Electricity plants	8	-	-	-	-	8	-
Main activity producer combined heat and power (CHP) plants	303	-	-	-	-	96	207
Autoproducer combined heat and power (CHP) plants	34	-	-	-	-	6	28
Main activity producer heat plants	60	-	-	-	-	-	60
Autoproducer heat plants	55	-	-	-	-	-	55
Oil refineries	-	-	-	-	-	-	-
Petrochemical plants	21	-	-	21	-	-	-
Liquefaction plants	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	-	-	-	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-
Energy sector	25	-	0	-	-	22	3
LOSSES	185	0	70	5	0	53	57

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	3882	147	612	1316	1064	453	290
FINAL ENERGY CONSUMPTION	3812	146	612	1263	1048	453	290
INDUSTRY	307	42	84	22	1	92	66
Iron and steel	0	-	0	-	-	0	-
Chemical and petrochem.	8	-	1	-	0	5	2
Non-metallic minerals	117	40	45	16	0	16	0
Machinery	5	0	0	0	-	5	0
Transport equipment	0	-	0	-	0	0	-
Mining and quarrying	3	-	-	1	-	2	-
Food and tobacco	149	2	35	1	1	49	61
Paper, pulp and print	2	-	0	-	-	1	1
Wood and wood products	3	-	0	0	0	3	-
Construction	6	-	1	4	-	1	0
Textile and leather	9	-	0	0	0	7	2
Not elsewhere specified	5	-	2	0	0	3	0
TRANSPORT	1050	-	36	1004	-	10	-
Domestic aviation	67	-	-	67	-	-	-
Road	950	-	25	920	-	5	-
Rail	15	-	-	15	-	-	-
Pipeline transport	16	-	11	-	-	5	-
Domestic navigation	1	-	-	1	-	-	-
Non-specified	1	-	-	1	-	-	-
OTHER	2455	104	492	237	1047	351	224
Residential	1916	75	357	91	1028	201	164
Comm. and public services	385	27	132	4	18	144	60
Agriculture	154	2	3	142	1	6	0
NON-ENERGY USE	70	1	-	53	16	-	-
Statistical differences	-	-	-	-	-	-	-

2. THE ENERGY BALANCE, TOTAL PRODUCTS

2.1. THE ENERGY BALANCE for 2010-2017

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015	2016	2017
Primary Production	523	555	594	599	654	655	709	770
From other sources	258	213	209	161	224	283	286	195
Imports	1813	1937	1832	1924	1801	1766	1818	2012
Exports	13	14	19	34	22	16	15	34
International bunkers	-	-	-	-	-	-	-	-
Stock changes	52	-15	8	-7	12	-2	-2	4
GROSS CONSUMPTION	2633	2676	2624	2643	2669	2686	2796	2939
TRANSFORMATION, INPUT	493	466	444	436	443	415	424	411
Electricity plants	8	7	3	6	7	4	4	7
Main activity producer combined heat and power (CHP) plants	321	302	292	270	283	279	279	260
Autoproducer combined heat and power (CHP) plants	27	24	22	31	39	31	32	29
Main activity producer heat plants	60	55	53	49	46	39	44	50
Autoproducer heat plants	60	59	52	58	50	44	46	49
Oil refineries	0	-	-	0	-	-	-	-
Petrochemical plants	17	19	22	21	17	16	18	14
Liquefaction plants	-	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	1	1	2	1	2
Not elsewhere specified - transformation	-	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	398	377	357	350	352	331	346	336
Electricity plants	7	7	3	5	6	5	4	5
Main activity producer combined heat and power (CHP) plants	248	237	227	210	208	216	217	213
Autoproducer combined heat and power (CHP) plants	23	21	19	28	35	18	22	24
Main activity producer heat plants	53	48	46	41	40	43	47	42
Autoproducer heat plants	47	46	44	48	44	38	41	38
Oil refineries	-	-	-	-	-	-	-	-
Petrochemical plants	20	18	18	18	18	11	15	14
Liquefaction plants	-	-	-	-	-	-	-	-
Charcoal production plants	-	-	0	0	1	-	0	0
Not elsewhere specified — transformation	-	-	-	-	-	-	-	-
Energy sector	17	16	14	12	17	18	19	17
LOSSES	176	165	159	155	152	129	128	128

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015	2016	2017
FINAL CONSUMPTION	2345	2406	2364	2390	2409	2455	2571	2719
FINAL ENERGY CONSUMPTION	2313	2376	2321	2348	2357	2410	2525	2671
INDUSTRY	227	235	239	257	235	209	202	217
Iron and steel	0	0	0	0	1	-	0	0
Chemical and petrochem.	3	4	3	5	6	5	5	6
Non-metallic minerals	94	102	106	114	73	88	69	83
Machinery	4	4	4	5	4	4	4	4
Transport equipment	-	1	-	-	1	-	0	0
Mining and quarrying	2	2	2	3	3	2	2	2
Food and tobacco	90	88	50	98	112	94	103	103
Paper, pulp and print	3	4	43	2	4	1	1	1
Wood and wood products	7	7	7	6	7	3	4	2
Construction	7	6	8	5	6	4	5	6
Textile and leather	6	6	3	6	6	6	6	7
Not elsewhere specified	11	11	13	13	12	2	3	3
TRANSPORT	597	630	569	595	618	662	717	734
Domestic aviation	19	20	23	22	25	25	33	47
Road	558	596	521	556	581	621	661	665
Rail	14	13	14	9	1	6	13	10
Pipeline transport	6	1	10	7	8	8	8	10
Domestic navigation	0	0	0	0	1	1	1	1
Non-specified	0	0	1	1	2	1	1	1
OTHER	1489	1511	1513	1496	1504	1539	1606	1720
Residential	1142	1165	1183	1173	1195	1205	1257	1346
Comm. and public services	276	277	270	259	245	260	269	267
Agriculture	71	69	60	64	64	74	80	107
NON-ENERGY USE	32	30	43	42	52	45	46	48
Statistical differences	-	-	-	-	-	-	-	-

2.2. THE ENERGY BALANCE for 2010-2017

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SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015	2016	2017
Primary Production	21911	23274	24884	25085	27444	27482	29584	32315
From other sources	10827	8923	8755	6748	9396	11879	11967	8208
Imports	76062	81292	76881	80605	75622	74076	76320	84351
Exports	581	601	807	1410	939	726	634	1403
International bunkers	-	-	-	-	-	-	-	-
Stock changes	2117	-592	414	-175	524	-59	-75	236
GROSS CONSUMPTION	110336	112296	110127	110853	112047	112652	117162	123235
TRANSFORMATION, INPUT	20760	19579	18672	18289	18765	17380	17732	17165
Electricity plants	327	304	139	218	288	214	168	299
Main activity producer combined heat and power (CHP) plants	13460	12637	12243	11318	11839	11286	11278	10883
Autoproducer combined heat and power (CHP) plants	1133	1028	948	1304	1684	1236	1222	1238
Main activity producer heat plants	2527	2316	2205	2082	1922	2040	2276	2042
Autoproducer heat plants	2574	2451	2223	2466	2196	1872	2049	1975
Oil refineries	0	-	-	0	-	-	-	-
Petrochemical plants	739	843	888	870	802	660	680	667
Liquefaction plants	-	-	-	-	-	-	-	-
Charcoal production plants	-	-	26	31	34	72	59	61
Not elsewhere specified - transformation	-	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	16705	15831	15026	14692	14655	14122	14495	14130
Electricity plants	307	291	133	200	252	199	161	229
Main activity producer combined heat and power (CHP) plants	10399	9907	9546	8805	8748	9039	9134	8904
Autoproducer combined heat and power (CHP) plants	981	920	807	1172	1432	789	887	990
Main activity producer heat plants	2222	2021	1911	1700	1675	1805	1981	1750
Autoproducer heat plants	1965	1922	1837	2024	1830	1595	1709	1608
Oil refineries	-	-	-	-	-	-	-	-
Petrochemical plants	831	770	779	775	710	483	607	635
Liquefaction plants	-	-	-	-	-	-	-	-
Charcoal production plants	-	-	13	16	8	13	16	14
Not elsewhere specified — transformation	-	-	-	-	-	-	-	-
Energy sector	736	708	616	515	693	721	730	709
LOSSES	7532	7431	7213	6614	6434	5531	5405	5403

SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015	2016	2017
FINAL CONSUMPTION	98013	100409	98652	100127	100810	103142	107790	114088
FINAL ENERGY CONSUMPTION	96743	99194	96789	98318	98709	101231	105941	111962
INDUSTRY	9642	9955	10169	10692	9697	9043	8598	9213
Iron and steel	6	8	7	14	29	8	7	6
Chemical and petrochem.	142	188	168	215	234	214	221	247
Non-metallic minerals	3896	4256	4399	4711	3096	3715	2945	3446
Machinery	337	221	212	183	140	180	192	187
Transport equipment	-	-	-	4	30	3	12	13
Mining and quarrying	94	113	100	146	147	119	78	91
Food and tobacco	3718	3718	3780	4068	4614	4014	4277	4385
Paper, pulp and print	131	116	131	139	118	108	108	69
Wood and wood products	270	308	318	212	236	163	163	103
Construction	316	304	311	242	286	201	187	231
Textile and leather	259	261	268	244	264	232	263	280
Not elsewhere specified	473	462	475	514	503	86	165	155
TRANSPORT	25100	26822	23894	24899	25876	28133	29991	30779
Domestic aviation	782	836	970	918	1071	1008	1410	1999
Road	23396	24955	21842	23142	24366	26454	27640	27830
Rail	605	557	607	383	32	258	542	437
Pipeline transport	288	443	422	300	322	319	330	455
Domestic navigation	3	3	3	3	27	28	21	20
Non-specified	26	28	50	153	58	66	48	38
OTHER	62001	62417	62726	62727	63136	64055	67352	71970
Residential	47848	48903	49632	49127	50058	50114	52724	56254
Comm. and public services	11180	10609	10573	10900	10355	10952	11250	11195
Agriculture	2973	2905	2521	2700	2723	2989	3378	4521
NON-ENERGY USE	1270	1215	1863	1809	2101	1911	1849	2126
Statistical differences	-	-	-	-	-	-	-	-

2.3. THE ENERGY BALANCE for 2010-2017

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015	2016	2017
Primary Production	748	792	850	853	934	934	1010	1100
From other sources	369	304	298	230	320	405	408	279
Imports	2590	2771	2620	2748	2575	2522	2597	2874
Exports	18	20	27	48	31	24	22	48
International bunkers	-	-	-	-	-	-	-	-
Stock changes	72	-20	12	-4	17	-5	-4	10
GROSS CONSUMPTION	3761	3827	3753	3779	3815	3832	3989	4195
TRANSFORMATION, INPUT	707	668	636	623	638	590	604	584
Electricity plants	12	10	5	7	9	6	5	10
Main activity producer combined heat and power (CHP) plants	459	431	388	386	404	398	399	371
Autoproducer combined heat and power (CHP) plants	39	35	41	44	57	43	45	42
Main activity producer heat plants	86	79	71	71	66	56	63	70
Autoproducer heat plants	87	84	101	84	74	63	66	68
Oil refineries	0	-	-	0	-	-	-	-
Petrochemical plants	24	29	30	30	27	22	26	21
Liquefaction plants	-	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	1	2	2	2	2
Not elsewhere specified - transformation	-	-	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	570	539	512	501	500	474	495	481
Electricity plants	10	10	4	7	9	6	5	8
Main activity producer combined heat and power (CHP) plants	355	338	325	300	297	308	312	303
Autoproducer combined heat and power (CHP) plants	33	32	27	40	49	27	30	34
Main activity producer heat plants	76	69	66	58	57	62	67	60
Autoproducer heat plants	67	65	63	69	62	54	58	55
Oil refineries	-	-	-	-	-	-	-	-
Petrochemical plants	29	25	27	26	24	16	22	21
Liquefaction plants	-	-	-	-	-	-	-	-
Charcoal production plants	-	-	-	1	1	1	1	-
Not elsewhere specified — transformation	-	-	-	-	-	-	-	-
Energy sector	25	24	21	17	23	24	25	25
LOSSES	258	239	229	221	218	188	182	185

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015	2016	2017
FINAL CONSUMPTION	3341	3435	3379	3419	3436	3504	3673	3882
FINAL ENERGY CONSUMPTION	3297	3394	3316	3357	3365	3441	3608	3812
INDUSTRY	325	341	343	369	330	305	290	307
Iron and steel	-	-	-	-	1	-	-	0
Chemical and petrochem.	5	7	4	8	8	7	6	8
Non-metallic minerals	133	147	150	163	105	124	101	117
Machinery	7	8	7	7	5	6	6	5
Transport equipment	-	-	-	-	1	-	-	0
Mining and quarrying	3	5	3	5	5	4	4	3
Food and tobacco	128	123	128	139	156	138	146	149
Paper, pulp and print	4	5	5	2	4	4	4	2
Wood and wood products	8	10	10	9	8	5	5	3
Construction	12	10	11	8	10	7	6	6
Textile and leather	9	10	9	9	9	8	8	9
Not elsewhere specified	16	16	16	19	18	2	4	5
TRANSPORT	855	914	817	851	884	943	1023	1050
Domestic aviation	28	28	33	31	37	34	48	67
Road	797	857	747	796	832	888	942	950
Rail	21	13	20	13	1	9	19	15
Pipeline transport	8	15	15	10	11	9	11	16
Domestic navigation	0	0	0	0	1	1	2	1
Non-specified	1	1	2	1	2	2	1	1
OTHER	2117	2139	2156	2137	2151	2193	2295	2455
Residential	1631	1664	1692	1675	1705	1722	1797	1916
Comm. and public services	385	378	380	372	354	368	384	385
Agriculture	101	97	84	90	92	103	114	154
NON-ENERGY USE	44	41	63	62	71	63	65	70
Statistical differences	-	-	-	-	-	-	-	-