NATIONAL BUREAU OF STATISTICS
OF THE REPUBLIC OF MOLDOVA

THE ENERGY BALANCE OF THE REPUBLIC OF MOLDOVA

STATISTICAL COMPILATION

2015

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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 2014 were included 14 659 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 I, Section I, Section 0, Section P, Sec tion 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	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. 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. 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.
Coke oven coke	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. 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.
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	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. 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.
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	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. 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.
2. Natural gas	
Natural gas	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). It does not include gases created by anaerobic digestion of biomass (e.g. municipal or sewage gas) nor gasworks gas.
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	Additives are non-hydrocarbon compounds added to or blended with a product to modify fuel properties (octane, cetane, cold properties, etc.): — 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). *Note:* 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.
Refinery gas (not liquefied)	Refinery gas includes a mixture of non-condensible 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_2H_6) extracted from natural gas and refinery gas streams.
Motor gasoline	Motor gasoline consists of a mixture of light hydrocarbons distilling between 35 ^{o}C and 215 ^{o}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, reformate, 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 anergy 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, ≥ 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	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.) t hat 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. *Coal production* 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; *Natural gas production*: 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. 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; *Crude oil production* (including liquids products from natural gas extraction); *Electricity production*: hydroelectric and wind energy production; is reported gross output (production measured at generator terminals); *Heat production*: heat production obtained from nuclear reactors; *Biomass production*: firewood, combustible products derived from activities other than energy production, such as wood processing cellulose and paper production, agriculture, etc; *Production of other fuels*: geothermal energy, solar photovoltaic energy, solar thermal energy, biogas, non-renewable industrial waste, renewable municipal waste and biofuels.
Import/export	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. 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

Name of aggregated indicator	Definition
	registered as both import and export. 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. 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.
Stock at 1 January/ Stock at 31 December	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. 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. 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.
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	Quantities of fuels used for primary or secondary energy transformation, for example: - 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); 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;

Name of aggregated indicator	Definition
- in stations for producing thermoelectric energy	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.
- in stations for producing thermal energy	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. 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. Also not included own consumptions of the station, those being declared consumptions in energy sector. Consumptions for thermal energy produced in the means of transport are not summarized, being included in the consumption of transport.
- in briquetting installations	Includes quantities of coal and binder consumed for the production of charcoal briquettes. 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.
- in coke ovens	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.
- in blast furnaces	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. 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.
- in oil refineries	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

Name of aggregated indicator	Definition
	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. 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.
- 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	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. 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. This includes and the amount of thermal energy (hot steam) used for producing thermal energy. Not included thermal energy used for producing electric energy.
- 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	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.. A negative value for one product should be compensated by one (or more) positive value for one or more products

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)	This indicator includes quantities of energy carriers consumed by primary energy producers or converted for operation of their installations. 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. 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. 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. 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. 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). This sector also includes the production of chemical substances used in atomic fission and fusion and the products of these processes.
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 prospections); 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	Are comprised: - 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 and to the receivers is comprised in technological consumption in analyzed branch (industry, construction, etc.).

Name of aggregated indicator	Definition
	- 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. - 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.
Available for final consumption (calculated)	Available for final consumption = domestic consumption - inputs in transformation + outputs from transformation ± transfer - (energy sector consumption + losses) + final non-energy consumption.
Nonenergetic	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.
Final energy consumption (gross consumption observed), total	Is determined by aggregating the quantities of energy carriers used by final consumers in economic activity carried out during the reference period. Comprise quantities of primary and transformed energy carriers used in consumer installations, after which no longer takes place any processing and energy transformation. 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. 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." Distribution of final energy consumption is made according CAEM Rev.2. as follows:
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.; CAEM Rev.2. code 33- Preparation, maintenance and installation of machinery and equipment
- 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)	Comprises : - 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 and forestry	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. CAEM Rev.2. code 01- Agriculture, hunting and related services CAEM Rev.2. code 02 - Silviculture forest harvesting CAEM Rev.2. code 03 – Fishing and aquaculture
- Other sectors of the economy	It comprises energy consumption reported by economic agents as consumed in other activities than those mentioned above, namely: CAEM Rev.2. Section E – Water supply; sewerage, waste management and remediation activities (excluding division 36) CAEM Rev.2. Section G - Wholesale and retail trade; repair of motor vehicles and motorcycles, CAEM Rev.2. code 52 - Storage and support activities for transportation CAEM Rev.2. code 53 – Postal and courier activities, CAEM Rev.2. Section I – Accommodation and public alimentation activities, CAEM Rev.2. Section J - Information and communication, CAEM Rev.2. Section K – Financial and insurance activities, CAEM Rev.2. Section L - Real estate transactions, CAEM Rev.2. Section M - Professional, scientific and technical activities, CAEM Rev.2. Section N - Activities of administrative services and activities of support services. CAEM Rev.2. Section O - Public administration and defense; compulsory social security, CAEM Rev.2. Section P – Education , CAEM Rev.2. Section Q - Health & Social Assistance, CAEM Rev.2. Section R – Art, recreational and leisure activities, CAEM Rev.2. Section S - Other service activities, 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, CAEM Rev.2. Section U – Activities of Extra-territorial

Name of aggregated indicator	Definition
	organizations and bodies 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.
Statistical differences	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. 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. Statistical differences may be positive or negative as observed consumption is lower or higher than the funds available in the reference period.

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	**189**	-	-	11	171	7	-
From other sources	**258**	-	-	-	-	258	-
Imports	**1813**	113	960	738	-	2	-
Exports	**13**	-	-	9	4	-	-
International bunkers	**-5**	-	-	-5	-	-	-
Stock changes	**52**	3	2	36	11	-	-
Gross consumption	**2294**	**116**	**962**	**771**	**178**	**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							
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							
Charcoal production plants	**-**	-	-	-	-	-	-
Not elsewhere specified — transformation	**-**	-	-	-	-	-	-
Energy sector	**17**	**-**	**-**	**-**	**-**	**17**	**-**
LOSSES	**176**	**1**	**72**	**4**	**-**	**52**	**47**

SUPPLY AND CONSUMPTION	**Total products**	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	**2006**	**113**	**456**	**749**	**166**	**282**	**240**
INDUSTRY	**227**	**33**	**63**	**11**	**1**	**68**	**51**
Iron and steel							
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	**592**	**-**	**7**	**581**	**-**	**4**	**-**
Domestic aviation	**14**	-	-	14	-	-	-
Road	**558**	-	1	553	-	4	-
Rail	**14**	-	-	14	-	-	-
Pipeline transport	**6**	-	6	-	-	-	-
Domestic navigation	**-**	-	-	-	-	-	-
Non-specified	**-**	-	-	-	-	-	
OTHER	**1155**	**80**	**386**	**125**	**165**	**210**	**189**
Residential	**808**	52	294	44	156	130	132
Comm. and public services	**276**	28	90	19	8	75	56
Agriculture/forestry	**71**	-	2	62	1	5	1
Not elsewhere specified	**-**	-	-	-	-	-	-
NON-ENERGY USE	**32**	**-**	**-**	**32**	**-**	**-**	**-**
Statistical differences	**-**	-	-	-	-	-	-

1.2. The energy balance for 2010

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	**7913**	-	3	465	7160	285	-
From other sources	**10827**	-	-	-	-	10827	-
Imports	**76062**	4709	40218	31029	16	90	-
Exports	**581**	1	-	430	150	-	-
International bunkers	**-218**	-	-	-218	-	-	-
Stock changes	**2117**	158	62	1494	403	-	-
Gross consumption	**96120**	**4866**	**40283**	**32340**	**7429**	**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							
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							
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	**83797**	**4738**	**18992**	**31299**	**6904**	**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	**24887**	**-**	**319**	**24397**	**-**	**166**	**5**
Domestic aviation	**564**	-	-	564	-	-	-
Road	**23396**	-	48	23196	-	152	-
Rail	**605**	-	-	605	-	-	-
Pipeline transport	**293**	-	271	3	-	14	5
Domestic navigation	**3**	-	-	3	-	-	-
Non-specified	**26**	-	-	26	-	-	-
OTHER	**47998**	**3358**	**15969**	**5155**	**6872**	**8833**	**7811**
Residential	**33850**	2168	12308	1849	6522	5455	5548
Comm. and public services	**11175**	1186	3565	683	329	3184	2228
Agriculture/forestry	**2973**	4	96	2623	21	194	35
Not elsewhere specified	**-**	-	-	-	-	-	-
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	**272**	-	-	16	246	10	-
From other sources	**369**	-	-	-	-	369	-
Imports	**2590**	160	1371	1056	-	3	-
Exports	**18**	-	-	14	4	-	-
International bunkers	**-9**	-	-	-9	-	-	-
Stock changes	**72**	6	2	51	13	-	-
Gross consumption	**3276**	**166**	**1373**	**1100**	**255**	**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							
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	**2856**	**161**	**647**	**1067**	**236**	**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	**846**	**-**	**10**	**831**	**-**	**5**	**-**
Domestic aviation	**19**	-	-	19	-	-	-
Road	**797**	-	2	790	-	5	-
Rail	**21**	-	-	21	-	-	-
Pipeline transport	**8**	-	8	-	-	-	-
Domestic navigation	**-**	-	-	-	-	-	-
Non-specified	**1**	-	-	1	-	-	-
OTHER	**1641**	**115**	**545**	**176**	**236**	**302**	**267**
Residential	**1155**	74	420	63	223	186	189
Comm. and public services	**385**	41	122	24	12	109	77
Agriculture/forestry	**101**	-	3	89	1	7	1
Not elsewhere specified	**-**	-	-	-	-	-	-
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	**238**	-	-	13	218	7	-
From other sources	**213**	-	-	-	-	213	-
Imports	**1937**	125	931	824	-	57	-
Exports	**14**	-	-	14	-	-	-
International bunkers	**-6**	-	-	-6	-	-	-
Stock changes	**-15**	-5	-1	-11	2	-	-
Gross consumption	**2353**	**120**	**930**	**806**	**220**	**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							
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	**2083**	**117**	**447**	**786**	**210**	**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	**624**	**-**	**2**	**617**	**-**	**5**	**-**
Domestic aviation	**14**	-	-	14	-	-	-
Road	**596**	-	2	590	-	4	-
Rail	**13**	-	**-**	13	-	-	-
Pipeline transport	**1**	-	**-**	-	-	1	-
Domestic navigation	**-**	-	**-**	-	-	-	-
Non-specified	**-**	-	**-**	-	-	-	
OTHER	**1194**	**75**	**379**	**130**	**209**	**216**	**185**
Residential	**848**	47	277	59	204	133	128
Comm. and public services	**277**	28	100	10	5	78	56
Agriculture/forestry	**69**	-	2	61	-	5	1
Not elsewhere specified	**-**	-	-	-	-	-	-
NON-ENERGY USE	**30**	**-**	**-**	**30**	**-**	**-**	**-**
Statistical differences	**-**	-	**-**	-	-	-	-

1.5. The energy balance for 2011

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	**9800**	-	2	526	8997	275	-
From other sources	**8923**	-	-	-	-	8923	-
Imports	**81292**	5252	39011	34618	13	2398	-
Exports	**601**	-	-	597	4	-	-
International bunkers	**-258**	-	-	-258	-	-	-
Stock changes	**-592**	-229	-25	-468	130	-	-
Gross consumption	**98564**	**5023**	**38988**	**33821**	**9136**	**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**

TeraJoule

SUPPLY AND CONSUMPTION	**Total products**	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	**86677**	**4937**	**18237**	**32910**	**8728**	**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	**26564**	**-**	**484**	**25899**	**-**	**181**	**-**
Domestic aviation	**578**	-	-	578	-	-	-
Road	**24955**	-	78	24728	-	149	-
Rail	**557**	-	-	557	-	-	-
Pipeline transport	**443**	-	406	5	-	32	-
Domestic navigation	**3**	-	-	3	-	-	-
Non-specified	**28**	-	-	28	-	-	-
OTHER	**48943**	**3192**	**14987**	**5365**	**8679**	**9057**	**7663**
Residential	**35429**	1955	11663	2499	8365	5572	5375
Comm. and public services	**10609**	1232	3238	315	287	3292	2245
Agriculture/forestry	**2905**	5	86	2551	27	193	43
Not elsewhere specified	**-**	-	-	-	-	-	-
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	**334**	-	-	18	307	9	-
From other sources	**304**	-	-	-	-	304	-
Imports	**2771**	179	1330	1180	-	82	-
Exports	**20**	-	-	20	-	-	-
International bunkers	**-8**	-	-	-8	-	-	-
Stock changes	**-20**	-8	-1	-16	5	-	-
Gross consumption	**3361**	**171**	**1329**	**1154**	**312**	**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	**2969**	**166**	**638**	**1121**	**298**	**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	**906**	**-**	**17**	**883**	**-**	**6**	**-**
Domestic aviation	**20**	-	-	20	-	-	-
Road	**857**	-	3	849	-	5	-
Rail	**13**	-	-	13	-	-	-
Pipeline transport	**15**	-	14	-	-	1	-
Domestic navigation	**-**	-	-	-	-	-	-
Non-specified	**1**	-	-	1	-	-	-
OTHER	**1681**	**107**	**523**	**183**	**297**	**310**	**261**
Residential	**1206**	67	395	85	286	190	183
Comm. and public services	**378**	40	125	12	11	113	77
Agriculture/forestry	**97**	-	3	86	-	7	1
Not elsewhere specified	**-**	-	-	-	-	-	-
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	**245**	-	-	11	231	3	-
From other sources	**209**	-	-	-	-	209	-
Imports	**1832**	113	885	761	-	73	-
Exports	**19**	-	-	18	1	-	-
International bunkers	**-8**	-	-	-8	-	-	-
Stock changes	**8**	3	-	10	-5	-	-
Gross consumption	**2267**	**116**	**885**	**756**	**225**	**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	**2007**	**114**	**421**	**736**	**220**	**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	**561**	**-**	**11**	**546**	**-**	**4**	**-**
Domestic aviation	**15**	-	-	15	-	-	-
Road	**521**	-	2	516	-	3	-
Rail	**14**	-	-	14	-	-	-
Pipeline transport	**10**	-	9	-	-	1	-
Domestic navigation	**-**	-	-	-	-	-	-
Non-specified	**1**	-	-	1	-	-	-
OTHER	**1164**	**83**	**347**	**117**	**219**	**223**	**175**
Residential	**834**	59	250	62	210	135	118
Comm. and public services	**270**	24	94	4	8	84	56
Agriculture/forestry	**60**	-	3	51	1	4	1
Not elsewhere specified	**-**	-	-	-	-	-	-
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	**10252**	-	4	473	9653	122	-
From other sources	**8755**	-	-	-	-	8755	-
Imports	**76881**	4745	37091	31984	14	3047	-
Exports	**807**	-	-	769	38	-	-
International bunkers	**-342**	-	-	-342	-	-	-
Stock changes	**414**	109	-1	460	-154	-	-
Gross consumption	**95153**	**4854**	**37094**	**31806**	**9475**	**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	**83678**	**4769**	**17135**	**30932**	**9213**	**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	**23552**	**8**	**441**	**22906**	**-**	**197**	**-**
Domestic aviation	**628**	-	-	628	-	-	-
Road	**21842**	-	78	21626	-	138	-
Rail	**607**	8	-	599	-	-	-
Pipeline transport	**422**	-	363	-	-	59	-
Domestic navigation	**3**	-	-	3	-	-	-
Non-specified	**50**	-	-	50	-	-	-
OTHER	**48094**	**3473**	**14007**	**4914**	**9174**	**9251**	**7275**
Residential	**35000**	2463	10498	2592	8812	5679	4956
Comm. and public services	**10573**	1004	3377	200	329	3387	2276
Agriculture/forestry	**2521**	6	132	2122	33	185	43
Not elsewhere specified	**0**	-	-	0	-	-	-
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	**350**	-	-	16	330	4	-
From other sources	**298**	-	-	-	-	298	-
Imports	**2620**	162	1264	1090	-	104	-
Exports	**27**	-	-	26	1	-	-
International bunkers	**-12**	-	-	-12	-	-	-
Stock changes	**12**	3	-	16	-7	-	-
Gross consumption	**3241**	**165**	**1264**	**1084**	**322**	**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	**2867**	**162**	**600**	**1055**	**314**	**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	**805**	**-**	**16**	**782**	**-**	**7**	**-**
Domestic aviation	**21**	-	-	21	-	-	-
Road	**747**	-	3	739	-	5	-
Rail	**20**	-	-	20	-	-	-
Pipeline transport	**15**	-	13	-	-	2	-
Domestic navigation	**0**	-	-	0	-	-	-
Non-specified	**2**	-	-	2	-	-	-
OTHER	**1656**	**118**	**493**	**168**	**313**	**315**	**249**
Residential	**1192**	84	358	88	299	194	169
Comm. and public services	**380**	34	131	8	13	115	79
Agriculture/forestry	**84**	-	4	72	1	6	1
Not elsewhere specified	**0**	-	-	0	-	-	-
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	**283**	-	-	10	269	4	-
From other sources	**161**	-	-	-	-	161	-
Imports	**1924**	156	833	810	-	125	-
Exports	**34**	-	-	34	-	-	-
International bunkers	**-9**	-	-	-9	-	-	-
Stock changes	**-7**	-6	1	-1	-1	-	-
Gross consumption	**2318**	**150**	**834**	**776**	**268**	**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	**2065**	**142**	**390**	**753**	**260**	**306**	**214**
INDUSTRY	**257**	**55**	**58**	**16**	**1**	**75**	**52**
Iron and steel	-	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	**-**	-	-	-	-	-	-
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	**586**	**-**	**6**	**575**	**-**	**5**	**-**
Domestic aviation	**13**	-	-	13	-	-	-
Road	**556**	-	1	552	-	3	-
Rail	**9**	-	-	9	-	-	-
Pipeline transport	**7**	-	5	-	-	2	-
Domestic navigation	-	0	-	0	0	-	0
Non-specified	**1**	-	-	1	-	-	-
OTHER	**1180**	**87**	**326**	**120**	**259**	**226**	**162**
Residential	**857**	61	234	63	251	139	109
Comm. and public services	**259**	26	88	3	7	82	53
Agriculture/forestry	**64**	-	4	54	1	5	-
Not elsewhere specified	-	0	-	0	0	-	0
NON-ENERGY USE	**42**	**-**	**-**	**42**	**-**	**-**	**-**
Statistical differences	**-**	-	-	-	-	-	-

1.11. The energy balance for 2013

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	**11833**	-	4	404	11257	168	-
From other sources	**6748**	-	-	-	-	6748	-
Imports	**80605**	6486	34921	33938	15	5245	-
Exports	**1410**	-	-	1378	32	-	-
International bunkers	**-373**	-	-	-373	-	-	-
Stock changes	**-175**	-184	66	-23	-34	-	-
Gross consumption	**97228**	**6302**	**34991**	**32568**	**11206**	**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	**86502**	**5920**	**16346**	**31600**	**10875**	**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	**24526**	**-**	**290**	**24024**	**-**	**212**	**-**
Domestic aviation	**545**	-	-	545	-	-	-
Road	**23142**	-	65	22940	-	137	-
Rail	**383**	-	-	383	-	-	-
Pipeline transport	**300**	-	225	-	-	75	-
Domestic navigation	**3**	-	-	3	-	-	-
Non-specified	**153**	-	-	153	-	-	-
OTHER	**49475**	**3667**	**13611**	**5075**	**10840**	**9459**	**6823**
Residential	**35875**	2548	9788	2661	10517	5805	4556
Comm. and public services	**10900**	1099	3675	141	291	3465	2229
Agriculture/forestry	**2700**	20	148	2273	32	189	38
Not elsewhere specified	**0**	-	-	0	-	-	-
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	**405**	-	-	14	385	6	-
From other sources	**230**	-	-	-	-	230	-
Imports	**2748**	221	1190	1157	1	179	-
Exports	**48**	-	-	47	1	-	-
International bunkers	**-12**	-	-	-12	-	-	-
Stock changes	**-4**	-6	2	-	-	-	-
Gross consumption	**3319**	**215**	**1192**	**1112**	**385**	**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	**2959**	**202**	**558**	**1081**	**375**	**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	-
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	**839**	**-**	**10**	**822**	**-**	**7**	**-**
Domestic aviation	**19**	-	-	19	-	-	-
Road	**796**	-	2	789	-	5	-
Rail	**13**	-	-	13	-	-	-
Pipeline transport	**10**	-	8	-	-	2	-
Domestic navigation	**0**	-	-	0	-	-	-
Non-specified	**1**	-	-	1	-	-	-
OTHER	**1689**	**124**	**465**	**173**	**373**	**322**	**232**
Residential	**1227**	87	334	91	362	198	155
Comm. and public services	**372**	37	126	5	10	118	76
Agriculture/forestry	**90**	-	5	77	1	6	1
Not elsewhere specified	**0**	-	-	0	-	-	-
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	**312**	-	0	8	299	5	-
From other sources	**224**	-	-	-	-	224	-
Imports	**1801**	88	851	799	0	63	-
Exports	**22**	-	-	18	4	-	-
International bunkers	**-8**	-	-	-8	-	-	-
Stock changes	**12**	7	-1	14	-8	-	-
Gross consumption	**2319**	**95**	**850**	**795**	**287**	**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**

SUPPLY AND CONSUMPTION	**Total products**	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	**2059**	**93**	**386**	**781**	**276**	**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	**610**	**-**	**8**	**597**	**-**	**5**	**-**
Domestic aviation	**17**	-	-	17	-	-	-
Road	**581**	-	1	576	-	4	-
Rail	**1**	-	-	1	-	-	-
Pipeline transport	**8**	-	7	-	-	1	-
Domestic navigation	**1**	-	-	1	-	-	-
Non-specified	**2**	-	-	2	-	-	-
OTHER	**1162**	**60**	**323**	**125**	**271**	**231**	**152**
Residential	**853**	42	239	64	258	143	107
Comm. and public services	**245**	18	82	5	12	84	44
Agriculture/forestry	**64**	0	2	56	1	4	1
Not elsewhere specified	**0**	-	-	0	-	-	-
NON-ENERGY USE	**52**	**-**	**-**	**49**	**3**	**-**	**-**
Statistical differences	**-**	-	-	-	-	-	-

1.14. The energy balance for 2014

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	**13017**	-	3	341	12452	221	-
From other sources	**9396**	-	-	-	-	9396	-
Imports	**75622**	3714	35655	33571	49	2633	-
Exports	**939**	-	-	785	154	-	-
International bunkers	**-339**	-	-	-339	-	-	-
Stock changes	**524**	297	-44	617	-346	-	-
Gross consumption	**97281**	**4011**	**35614**	**33405**	**12001**	**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**

SUPPLY AND CONSUMPTION	**Total products**	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	**86044**	**3902**	**16171**	**32635**	**11424**	**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	**25537**	**-**	**352**	**25009**	**-**	**176**	**-**
Domestic aviation	**732**	-	-	732	-	-	-
Road	**24366**	-	59	24160	-	147	-
Rail	**32**	-	-	32	-	-	-
Pipeline transport	**322**	-	293	-	-	29	-
Domestic navigation	**27**	-	-	27	-	-	-
Non-specified	**58**	-	-	58	-	-	-
OTHER	**48709**	**2569**	**13544**	**5231**	**11265**	**9730**	**6370**
Residential	**35631**	1767	10012	2665	10740	5976	4471
Comm. and public services	**10355**	784	3462	197	481	3580	1851
Agriculture/forestry	**2723**	18	70	2369	44	174	48
Not elsewhere specified	**-**	-	-	-	-	-	-
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	**444**	-	0	12	425	7	-
From other sources	**320**	-	-	-	-	320	-
Imports	**2575**	127	1215	1142	1	90	-
Exports	**31**	-	-	26	5	-	-
International bunkers	**-12**	-	-	-12	-	-	-
Stock changes	**17**	10	-1	21	-13	-	-
Gross consumption	**3313**	**137**	**1214**	**1137**	**408**	**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**

SUPPLY AND CONSUMPTION	**Total products**	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	**2934**	**133**	**551**	**1117**	**386**	**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	**872**	**-**	**12**	**854**	**-**	**6**	**-**
Domestic aviation	**25**	-	-	25	-	-	-
Road	**832**	-	2	825	-	5	-
Rail	**1**	-	-	1	-	-	-
Pipeline transport	**11**	-	10	-	-	1	-
Domestic navigation	**1**	-	-	1	-	-	-
Non-specified	**2**	-	-	2	-	-	-
OTHER	**1661**	**88**	**461**	**178**	**385**	**332**	**217**
Residential	**1215**	60	341	91	367	204	152
Comm. and public services	**354**	27	118	7	17	122	63
Agriculture/forestry	**92**	1	2	80	1	6	2
Not elsewhere specified	**0**	-	-	0	-	-	-
NON-ENERGY USE	**71**	**-**	**-**	**71**	**-**	**-**	**-**
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	**325**	-	0	7	314	4	-
From other sources	**283**	-	-	-	-	283	-
Imports	**1766**	98	815	851	0	2	-
Exports	**16**	-	-	14	2	-	-
International bunkers	**6**	-	-	6	-	-	-
Stock changes	**2**	-4	-1	15	-8	-	-
Gross consumption	**2350**	**102**	**816**	**823**	**320**	**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**

SUPPLY AND CONSUMPTION	**Total products**	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	**2119**	**100**	**393**	**808**	**299**	**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	**646**	**-**	**10**	**631**	**-**	**5**	**-**
Domestic aviation	**19**	-	-	19	-	-	-
Road	**611**	-	3	604	-	4	-
Rail	**6**	-	-	6	-	-	-
Pipeline transport	**8**	-	7	-	-	1	-
Domestic navigation	**1**	-	-	1	-	-	-
Non-specified	**1**	-	-	1	-	-	-
OTHER	**1219**	**60**	**323**	**137**	**289**	**247**	**163**
Residential	**885**	42	236	66	279	144	118
Comm. and public services	**260**	17	85	5	9	99	45
Agriculture/forestry	**74**	1	2	66	1	4	-
Not elsewhere specified	**0**	-	-	0	-	-	-
NON-ENERGY USE	**45**	**-**	**-**	**36**	**9**	**-**	**-**
Statistical differences	**-**	-	-	-	-	-	-

1.17. The energy balance for 2015

TeraJoule

SUPPLY AND CONSUMPTION	Total products	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
Primary Production	**13645**	-	3	285	13164	193	-
From other sources	**11879**	-	-	-	-	11879	-
Imports	**74076**	4114	34146	35712	42	62	-
Exports	**726**	-	-	627	99	-	-
International bunkers	**239**	-	-	239	-	-	-
Stock changes	**59**	-174	-48	602	-321	-	-
Gross consumption	**98576**	**4288**	**34197**	**34529**	**13428**	**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	**11686**	-	11686	-	-	-	-
Autoproducer combined heat and power (CHP) plants	**1236**	-	587	262	387	-	-
Main activity producer heat plants	**1640**	-	1640	-	-	-	-
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	**728**	**-**	**7**	**2**	**-**	**647**	**72**
LOSSES	**5531**	**2**	**2434**	**151**	**7**	**1437**	**1500**

SUPPLY AND CONSUMPTION	**Total products**	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	**89059**	**4216**	**16447**	**33913**	**12572**	**13441**	**8470**
INDUSTRY	**9036**	**1705**	**2499**	**298**	**62**	**2782**	**1690**
Iron and steel	**8**	-	-	-	-	8	-
Chemical and petrochem.	**207**	-	21	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	**27032**	**-**	**421**	**26435**	**-**	**176**	**-**
Domestic aviation	**769**	-	-	769	-	-	-
Road	**25592**	-	124	25314	-	154	-
Rail	**258**	-	-	258	-	-	-
Pipeline transport	**319**	-	297	-	-	22	-
Domestic navigation	**28**	-	-	28	-	-	-
Non-specified	**66**	-	-	66	-	-	-
OTHER	**51080**	**2511**	**13527**	**5630**	**12149**	**10483**	**6780**
Residential	**37138**	1733	9893	2722	11737	6118	4935
Comm. and public services	**10951**	749	3545	232	383	4198	1844
Agriculture/forestry	**2989**	29	89	2674	29	167	1
Not elsewhere specified	**2**	-	-	2	-	-	-
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	**462**	-	0	10	446	6	-
From other sources	**405**	-	-	-	-	405	-
Imports	**2522**	140	1164	1216	-	2	-
Exports	**24**	-	-	21	3	-	-
International bunkers	**8**	-	-	8	-	-	-
Stock changes	**5**	-6	-1	23	-11	-	-
Gross consumption	**3352**	**146**	**1165**	**1174**	**454**	**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**

SUPPLY AND CONSUMPTION	**Total products**	Coal	Natural gas	Oil products	Biofuels and waste	Electricity	Heat
FINAL CONSUMPTION	**3024**	**144**	**560**	**1154**	**426**	**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	**921**	**-**	**14**	**901**	**-**	**6**	**-**
Domestic aviation	**26**	-	-	26	-	-	-
Road	**872**	-	4	863	-	5	-
Rail	**9**	-	-	9	-	-	-
Pipeline transport	**11**	-	10	-	-	1	-
Domestic navigation	**1**	-	-	1	-	-	-
Non-specified	**2**	-	-	2	-	-	-
OTHER	**1736**	**87**	**461**	**192**	**413**	**352**	**231**
Residential	**1264**	60	337	94	399	205	169
Comm. and public services	**369**	26	121	7	12	141	62
Agriculture/forestry	**103**	1	3	91	2	6	-
Not elsewhere specified	**0**	-	-	0	-	-	-
NON-ENERGY USE	**63**	**-**	**-**	**52**	**11**	**-**	**-**
Statistical differences	**-**	-	-	-	-	-	-

2. THE ENERGY BALANCE, TOTAL PRODUCTS

2.1. The energy balance for 2010-2015

thousands of tonnes of oil equivalent

SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015
Primary Production	189	238	245	283	312	325
From other sources	258	213	209	161	224	283
Imports	1813	1937	1832	1924	1801	1766
Exports	13	14	19	34	22	16
International bunkers	-5	-6	-8	-9	-8	6
Stock changes	52	-15	8	-7	12	2
Gross consumption	**2294**	**2353**	**2267**	**2318**	**2319**	**2350**
TRANSFORMATION, INPUT	**493**	**466**	**444**	**436**	**443**	**415**
Electricity plants	8	7	3	6	7	4
Main activity producer combined heat and power (CHP) plants	321	302	292	270	283	279
Autoproducer combined heat and power (CHP) plants	27	24	22	31	39	31
Main activity producer heat plants	60	55	53	49	46	39
Autoproducer heat plants	60	59	52	58	50	44
Oil refineries	-	-	-	-	-	-
Petrochemical plants	17	19	22	21	17	16
Liquefaction plants	-	-	-	-	-	-
Charcoal production plants	-	-	-	1	1	2
Not elsewhere specified - transformation	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	**398**	**377**	**357**	**350**	**352**	**331**
Electricity plants	7	7	3	5	6	5
Main activity producer combined heat and power (CHP) plants	248	237	227	210	208	216
Autoproducer combined heat and power (CHP) plants	23	21	19	28	35	18
Main activity producer heat plants	53	48	46	41	40	43
Autoproducer heat plants	47	46	44	48	44	38
Oil refineries	-	-	-	-	-	-
Petrochemical plants	20	18	18	18	18	11
Liquefaction plants	-	-	-	-	-	-
Charcoal production plants	-	-	0	0	1	0
Not elsewhere specified — transformation	-	-	-	-	-	-
Energy sector	**17**	**16**	**14**	**12**	**17**	**18**
LOSSES	**176**	**165**	**159**	**155**	**152**	**129**

FINAL CONSUMPTION	2006	2083	2007	2065	2059	2119
INDUSTRY	**227**	**235**	**239**	**257**	**235**	**209**
Iron and steel	0	0	0	0	1	-
Chemical and petrochem.	3	4	3	5	6	5
Non-metallic minerals	94	102	106	114	73	88
Machinery	4	4	4	5	4	4
Transport equipment	-	1	-	-	1	-
Mining and quarrying	2	2	2	3	3	2
Food and tobacco	90	88	50	98	112	94
Paper, pulp and print	3	4	43	2	4	1
Wood and wood products	7	7	7	6	7	3
Construction	7	6	8	5	6	4
Textile and leather	6	6	3	6	6	6
Not elsewhere specified	11	11	13	13	12	2
TRANSPORT	**592**	**624**	**561**	**586**	**610**	**646**
Domestic aviation	14	14	15	13	17	19
Road	558	596	521	556	581	611
Rail	14	13	14	9	1	6
Pipeline transport	6	1	10	7	8	8
Domestic navigation	0	0	0	0	1	1
Non-specified	0	0	1	1	2	1
OTHER	**1155**	**1194**	**1164**	**1180**	**1162**	**1219**
Residential	808	848	834	857	853	885
Comm. and public services	276	277	270	259	245	260
Agriculture/forestry	71	69	60	64	64	74
Not elsewhere specified	0	0	0	0	0	0
NON-ENERGY USE	**32**	**30**	**43**	**42**	**52**	**45**
Statistical differences	-	-	-	-	-	-

2.2. The energy balance for 2010-2015

TeraJoule

SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015
Primary Production	7913	9800	10252	11833	13017	13645
From other sources	10827	8923	8755	6748	9396	11879
Imports	76062	81292	76881	80605	75622	74076
Exports	581	601	807	1410	939	726
International bunkers	-218	-258	-342	-373	-339	239
Stock changes	2117	-592	414	-175	524	59
Gross consumption	**96120**	**98564**	**95153**	**97228**	**97281**	**98576**
TRANSFORMATION, INPUT	**20760**	**19579**	**18672**	**18289**	**18765**	**17380**
Electricity plants	327	304	139	218	288	214
Main activity producer combined heat and power (CHP) plants	13460	12637	12243	11318	11839	11686
Autoproducer combined heat and power (CHP) plants	1133	1028	948	1304	1684	1236
Main activity producer heat plants	2527	2316	2205	2082	1922	1640
Autoproducer heat plants	2574	2451	2223	2466	2196	1872
Oil refineries	-	-	-	-	-	-
Petrochemical plants	739	843	888	870	802	660
Liquefaction plants	-	-	-	-	-	-
Charcoal production plants	-	-	26	31	34	72
Not elsewhere specified - transformation	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	**16705**	**15831**	**15026**	**14692**	**14655**	**14122**
Electricity plants	307	291	133	200	252	199
Main activity producer combined heat and power (CHP) plants	10399	9907	9546	8805	8748	9039
Autoproducer combined heat and power (CHP) plants	981	920	807	1172	1432	789
Main activity producer heat plants	2222	2021	1911	1700	1675	1805
Autoproducer heat plants	1965	1922	1837	2024	1830	1595
Oil refineries	-	-	-	-	-	-
Petrochemical plants	831	770	779	775	710	483
Liquefaction plants	-	-	-	-	-	-
Charcoal production plants	-	-	13	16	8	13
Not elsewhere specified — transformation	-	-	-	-	-	-
Energy sector	**736**	**708**	**616**	**515**	**693**	**728**
LOSSES	**7532**	**7431**	**7213**	**6614**	**6434**	**5531**

FINAL CONSUMPTION	**83797**	**86677**	**83678**	**86502**	**86044**	**89059**
INDUSTRY	**9642**	**9955**	**10169**	**10692**	**9697**	**9036**
Iron and steel	6	8	7	14	29	8
Chemical and petrochem.	142	188	168	215	234	207
Non-metallic minerals	3896	4256	4399	4711	3096	3715
Machinery	337	221	212	183	140	180
Transport equipment	-	-	-	4	30	3
Mining and quarrying	94	113	100	146	147	119
Food and tobacco	3718	3718	3780	4068	4614	4014
Paper, pulp and print	131	116	131	139	118	108
Wood and wood products	270	308	318	212	236	163
Construction	316	304	311	242	286	201
Textile and leather	259	261	268	244	264	232
Not elsewhere specified	473	462	475	514	503	86
TRANSPORT	**24887**	**26564**	**23552**	**24526**	**25537**	**27032**
Domestic aviation	564	578	628	545	732	769
Road	23396	24955	21842	23142	24366	25592
Rail	605	557	607	383	32	258
Pipeline transport	293	443	422	300	322	319
Domestic navigation	3	3	3	3	27	28
Non-specified	26	28	50	153	58	66
OTHER	**47998**	**48943**	**48094**	**49475**	**48709**	**51080**
Residential	33850	35429	35000	35875	35631	37138
Comm. and public services	11175	10609	10573	10900	10355	10951
Agriculture/forestry	2973	2905	2521	2700	2723	2989
Not elsewhere specified	0	0	0	0	0	2
NON-ENERGY USE	**1270**	**1215**	**1863**	**1809**	**2101**	**1911**
Statistical differences	-	-	-	-	-	-

2.3. The energy balance for 2010-2015

thousands of tonnes of coal equivalent

SUPPLY AND CONSUMPTION	2010	2011	2012	2013	2014	2015
Primary Production	272	334	350	405	444	462
From other sources	369	304	298	230	320	405
Imports	2590	2771	2620	2748	2575	2522
Exports	18	20	27	48	31	24
International bunkers	-9	-8	-12	-12	-12	8
Stock changes	72	-20	12	-4	17	5
Gross consumption	**3276**	**3361**	**3241**	**3319**	**3313**	**3352**
TRANSFORMATION, INPUT	**707**	**668**	**636**	**623**	**638**	**590**
Electricity plants	12	10	5	7	9	6
Main activity producer combined heat and power (CHP) plants	459	431	388	386	404	398
Autoproducer combined heat and power (CHP) plants	39	35	41	44	57	43
Main activity producer heat plants	86	79	71	71	66	56
Autoproducer heat plants	87	84	101	84	74	63
Oil refineries	-	-	-	-	-	-
Petrochemical plants	24	29	30	30	27	22
Liquefaction plants	-	-	-	-	-	-
Charcoal production plants	-	-	-	1	2	2
Not elsewhere specified - transformation	-	-	-	-	-	-
TRANSFORMATION, OUTPUT	**570**	**539**	**512**	**501**	**500**	**474**
Electricity plants	10	10	4	7	9	6
Main activity producer combined heat and power (CHP) plants	355	338	325	300	297	308
Autoproducer combined heat and power (CHP) plants	33	32	27	40	49	27
Main activity producer heat plants	76	69	66	58	57	62
Autoproducer heat plants	67	65	63	69	62	54
Oil refineries	-	-	-	-	-	-
Petrochemical plants	29	25	27	26	24	16
Liquefaction plants	-	-	-	-	-	-
Charcoal production plants	-	-	-	1	1	1
Not elsewhere specified — transformation	-	-	-	-	-	-
Energy sector	**25**	**24**	**21**	**17**	**23**	**24**
LOSSES	**258**	**239**	**229**	**221**	**218**	**188**

FINAL CONSUMPTION	2856	2969	2867	2959	2934	3024
INDUSTRY	**325**	**341**	**343**	**369**	**330**	**305**
Iron and steel	-	-	-	-	1	-
Chemical and petrochem.	5	7	4	8	8	7
Non-metallic minerals	133	147	150	163	105	124
Machinery	7	8	7	7	5	6
Transport equipment	-	-	- -		1	-
Mining and quarrying	3	5	3	5	5	4
Food and tobacco	128	123	128	139	156	138
Paper, pulp and print	4	5	5	2	4	4
Wood and wood products	8	10	10	9	8	5
Construction	12	10	11	8	10	7
Textile and leather	9	10	9	9	9	8
Not elsewhere specified	16	16	16	19	18	2
TRANSPORT	**846**	**906**	**805**	**839**	**872**	**921**
Domestic aviation	19	20	21	19	25	26
Road	797	857	747	796	832	872
Rail	21	13	20	13	1	9
Pipeline transport	8	15	15	10	11	11
Domestic navigation	0	0	0	0	1	1
Non-specified	1	1	2	1	2	2
OTHER	**1641**	**1681**	**1656**	**1689**	**1661**	**1736**
Residential	1155	1206	1192	1227	1215	1264
Comm. and public services	385	378	380	372	354	369
Agriculture/forestry	101	97	84	90	92	103
Not elsewhere specified	0	0	0	0	0	0
NON-ENERGY USE	**44**	**41**	**63**	**62**	**71**	**63**
Statistical differences	-	-	-	-	-	-