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Energy Consumption Survey. Year 2007. Definitive Data

Industrial energy consumption reaches 10,980 million euros in 2007

Consumption of electricity accounts for almost one half of total energy consumption

Industrial energy consumption reached 10,980 million euros in 2007. **This figure was 34,3% higher** (variations in value are the result of variations in amount and price) **than that registered in 2005, the last year that this Survey was conducted.**

The main energy products used by industrial companies were electricity (48.3% of the total), gas (27.8%) and petroleum products (17.6%).

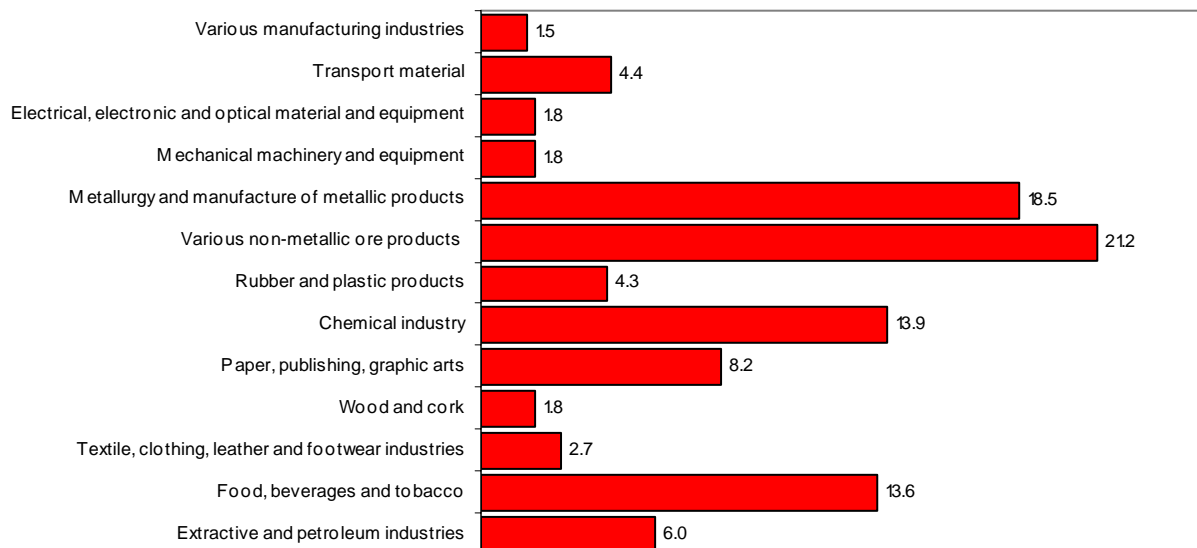
Distribution of industrial energy consumption

	Data 2005 (thousand €)	%	Data 2007 (thousand €)	%
Hard coal and derivatives	205.937	2,5	295.188	2,7
Gasoil	1.088.513	13,3	1.295.537	11,8
Heavy fuel oil	410.866	5,0	369.185	3,4
Other petroleum products	191.264	2,3	261.056	2,4
Gas	1.992.278	24,4	3.047.604	27,8
Electricity	3.916.243	47,9	5.302.029	48,3
Other energy consumption	372.399	4,6	409.404	3,7
Total energy consumption	8.177.499	100,0	10.980.004	100,0

Energy consumption by activity group

The activity groups with the greatest energy consumption in 2007 were *Non-metallic ore products* (21.2% of the total), *Metallurgy and manufacture of metallic products* (18.5%), *Chemical industry* (13.9%) and *Food, beverages and tobacco* (13.6%).

Energy consumption by activity group (Percent of the total). Year 2007



Taking the 2005-2007 period as a reference, the groups in which energy consumption increased the most were *Extractive and petroleum industries* (with an increase of 60.1%) and *Paper, publishing, graphic arts* (50.1%).

Energy consumption by activity group

Variation 2007/2005

Activity group	Total energy consumption 2005 (thousand €)	Total energy consumption 2007 (thousand €)	% Δ 2007/2005
Extraction and manufacturing industry total	8,177,499	10,980,004	34.3
Extractive and petroleum industries	411,450	658,915	60.1
Food, beverages and tobacco	1,135,365	1,496,022	31.8
Textile, clothing, leather and footwear industries	263,200	300,238	14.1
Wood and cork	180,075	202,255	12.3
Paper, publishing, graphic arts	600,896	902,072	50.1
Chemical industry	1,216,534	1,528,876	25.7
Rubber and plastic products	338,055	471,765	39.6
Various non-metallic ore products	1,638,282	2,325,319	41.9
Metallurgy and manufacture of metallic products	1,570,585	2,032,129	29.4
Mechanical machinery and equipment	160,110	202,557	26.5
Electrical, electronic and optical material and equipment	156,247	201,980	29.3
Transport material	374,546	487,778	30.2
Various manufacturing industries	132,155	170,097	28.7

With regard to the use of different types of fuels, worth noting was the high percentage of consumption of electricity registered by the following groups: *Rubber and plastic products* (76.7% of the total) and *Electrical, electronic and optical material and equipment* (72.3%).

The use of gas accounted for 43.5% of the total in the *Chemical industry*, and 36.5% in *Various non-metallic ore products*, whilst the consumption of petroleum products represented

37.6% of the total in the *Extractive and petroleum industries* group, and 31.2% in the *Various manufacturing industries* group..

Lastly, the use of hard coal and derivatives accounted for 9.8% of the total in the *Non-metallic mineral products* group.

Percentage distribution by type of energy and activity group. Year 2007

Activity group	Hard coal and derivatives (%)	Petroleum products (%)	Gas (%)	Electricity (%)	Other energy consumption (%)	Total energy consumption
Extraction and manufacturing industry total	2.7	17.5	27.8	48.3	3.7	10,980,004
Extractive and petroleum industries	1.2	37.6	11.9	47.0	2.3	658,915
Food, beverages and tobacco	0.3	24.4	23.8	48.8	2.7	1,496,022
Textile, clothing, leather and footwear industries	0.0	13.7	27.7	55.4	3.2	300,238
Wood and cork	0.0	26.6	11.5	57.6	4.3	202,255
Paper, publishing, graphic arts	0.1	8.5	37.9	46.5	7.0	902,072
Chemical industry	1.2	10.9	43.5	37.4	7.1	1,528,876
Rubber and plastic products	0.0	6.9	12.2	76.7	4.1	471,765
Various non-metallic ore products	9.8	19.9	36.5	31.7	2.2	2,325,319
Metallurgy and manufacture of metallic products	1.5	13.1	21.5	60.5	3.4	2,032,129
Mechanical machinery and equipment	0.2	26.5	14.6	56.8	1.9	202,557
Electrical, electronic and optical material and equipment	0.0	17.2	9.3	72.3	1.2	201,980
Transport material	0.0	14.7	20.1	61.7	3.5	487,778
Various manufacturing industries	3.8	31.2	6.0	57.9	1.2	170,097

Energy consumption by activity sector

The Energy Consumption Survey lists 100 sectors, allowing for a detailed study of industrial reality, by providing information on which of the sectors are the most significant in the consumption of the different types of fuel.

Thus, the consumption of **hard coal and its derivatives** was quite significant in terms of percentage in the sectors of *Manufacture of cement, lime and plaster*, which represented 34.4% of the total for the year 2007.

The 10 industrial sectors with the highest percentage use of coal as compared to the fuel total. Year 2007

Activity sector	Hard coal and derivatives (%)
Manufacture of cement, lime and plaster	34.4
Recycling	17.5
Extraction and agglomeration of anthracite, coal, lignite and peat	8.3
Manufacture of pipes	5.8
Sugar, cocoa and chocolate industry	4.2
Casting of metals	3.3
Ceramic tiles, flooring tiles, bricks, roofing tiles... for construction	2.1
Manufacture and first transformation of precious metals	1.9
Ceramic goods other than those intended for construction	1.7
Manufacture of basic chemical products	1.7

Electricity Consumption represented a very significant part of the total for a large number of industrial sectors.

Those with the highest percentage of consumption in 2007 were *Manufacture of isolated electrical wires and cables* (with 85.4% of the total), *Manufacture of office machinery and IT equipment* (84.5%) and *Sound and image reception, recording and reproduction devices* (84.4%).

The 10 industrial sectors with the highest percentage use of electricity as compared to the fuel total. Year 2007

Activity sector	Electricity (%)
Manufacture of isolated electrical wires and cables	85.4
Manufacture of office machinery and IT equipment	84.5
Sound and image reception, recording and reproduction devices	84.4
Manufacture of plastic material products	81.2
Measurement, control, optical and photographic instruments and devices	80.8
Leather goods, luggage, saddlery and harness	79.1
Manufacture of jewellery and gold and silver articles	79.0
Publishing	76.9
Preparation and spinning of textile fibres	76.4
Graphic arts and reproduction of recorded supports	75.5

The sectors with the greatest participation of **petroleum products** were those of *Manufacture of concrete, plaster and cement articles* (reaching 67.9 % of the total), *Manufacture of wooden containers* (59.0%) and *Manufacture of builders' carpentry and joinery of metal* (58.8%).

The 10 industrial sectors with the highest percentage use of petroleum products as compared to the fuel total. Year 2007

Activity sector	Petroleum products (%)
Manufacture of concrete, plaster and cement articles	67,9
Manufacture of wooden containers	59,0
Manufacture of builders' carpentry and joinery of metal, and its parts	58,8
Extraction of non-energetic ores	57,2
Manufacture of footwear	57,0
Radiofusion and television transmitters...	52,7
Sawing, planing and industrial preparation of wood	50,0
Manufacture of agricultural machinery	48,7
Manufacture of metal structures	44,9
Preservation and processing of fish and fish products	44,7

The use of **gas** (natural and manufactured) was of particular note in the sectors of *Ceramic tiles, flooring tiles, bricks, roofing tiles... for construction* (66.7% of the total), *Manufacture of other chemical products* (60.5%) and *Textile finishings* (59.9%).

The 10 industrial sectors with the highest percentage use of petroleum products as compared to the fuel total. Year 2007

Activity sector	Petroleum products (%)
Manufacture of concrete, plaster and cement articles	67,9
Manufacture of wooden containers	59,0
Manufacture of builders' carpentry and joinery of metal, and its parts	58,8
Extraction of non-energetic ores	57,2
Manufacture of footwear	57,0
Radiofusion and television transmitters...	52,7
Sawing, planing and industrial preparation of wood	50,0
Manufacture of agricultural machinery	48,7
Manufacture of metal structures	44,9
Preservation and processing of fish and fish products	44,7

Lastly, the sectors in which the **other energy consumption** was of note (biomass, heat, ...) were *Manufacture of artificial and synthetic fibres* (16.2%) and *Manufacture of rubber products* (14.3%).

The 10 industrial sectors with the highest percentage use of other energy consumption as compared to the fuel total. Year 2007

Activity sector	Other energy consumption (%)
Manufacture of artificial and synthetic fibres	16,2
Manufacture of rubber products	14,3
Construcción y reparación naval	9,7
Manufacture of pulp, paper and cardboard	8,5
Textile finishings	8,4
Construcción aeronáutica y espacial	8,4
Manufacture of basic chemical products	7,5
Manufacture of wooden sheets, boards and panels	6,9
Manufacture of pesticides and other agro-chemical products	6,7
Paints, varnishes, printing ink and mastics	6,2

Energy consumption by Autonomous Community

By Autonomous Community, the greatest increases in energy consumption during the 2007/2005 period were registered in Canarias (with an increase of 52.0%), Aragón (51.1%) and Andalucía (47.0%).

In turn, the Autonomous Communities presenting the most moderate growth in energy consumption during that same period were Galicia (which presented an increase of 22.9%), Cantabria and Principado de Asturias (both with an increase of 23.6%).

Energy consumption by Autonomous Community (Variation 2007/2005)

Autonomous Community	Total 2005 energy consumption (thousand €)	Total 2007 energy consumption (thousand €)	% 2007/2005
National total	8,177,499	10,980,004	34.3
Andalucía	835,909	1,228,432	47.0
Aragón	374,291	565,628	51.1
Asturias (Principado de)	374,809	463,371	23.6
Balears (Illes)	36,647	47,448	29.5
Canarias	70,763	107,556	52.0
Cantabria	187,934	232,312	23.6
Castilla y León	505,121	732,764	45.1
Castilla-La Mancha	410,156	593,869	44.8
Cataluña	1,742,229	2,168,571	24.5
Comunitat Valenciana	1,078,736	1,433,959	32.9
Extremadura	96,308	124,030	28.8
Galicia	628,360	772,233	22.9
Madrid (Comunidad de)	502,866	695,922	38.4
Murcia (Región de)	193,579	264,823	36.8
Navarra (Comunidad Foral de)	244,659	325,083	32.9
País Vasco	823,899	1,129,918	37.1
Rioja (La)	71,234	94,083	32.1

Use of fuel by Autonomous Community

Regarding the **different fuels used**, worth mentioning was that, in eight Autonomous Communities (País Vasco, Región de Murcia, Principado de Asturias, Comunidad Foral de Navarra, Comunidad de Madrid, Cataluña, La Rioja and Galicia), the use of electricity accounted for more than 50% of total energy consumption. In the previous Survey, corresponding to the year 2005, electricity represented more than half of energy consumption in six Communities.

On another hand, the Communities with the highest percentages of consumption of hard coal and its derivatives during the year 2007 were Illes Balears (8.9%) and Principado de Asturias (6.2%).

The Communities making the greatest use of petroleum products were Canarias (37.5%) and Galicia (35.6%).

Lastly, the Communities that presented the highest percentages in the use of gas, during the year 2007, were Comunitat Valenciana (with 44.3% of the total) and Aragón (41.8%).

Percentage distribution by type of energy and Autonomous Community. Year 2007

Autonomous Community	Hard coal and derivatives (%)	Petroleum products (%)	Gas (%)	Electricity (%)	Other energy consumption (%)	Total energy consumption (thousand €)
National total	2.7	17.5	27.8	48.3	3.7	10,980,004
Andalucía	2.9	21.6	24.7	45.6	5.1	1,228,432
Aragón	1.8	15.0	41.8	39.3	2.1	565,628
Asturias (Principado de)	6.2	13.4	18.9	53.9	7.7	463,371
Balears (Illes)	8.9	25.4	20.1	42.1	3.5	47,448
Canarias	2.6	37.5	8.7	48.6	2.6	107,556
Cantabria	4.6	12.3	26.5	49.3	7.2	232,312
Castilla y León	2.4	21.3	25.7	46.3	4.3	732,764
Castilla-La Mancha	2.4	23.1	30.7	41.2	2.6	593,869
Cataluña	3.3	13.1	28.2	51.7	3.7	2,168,571
Comunitat Valenciana	2.2	12.9	44.3	38.3	2.3	1,433,959
Extremadura	2.6	24.3	22.5	49.7	0.9	124,030
Galicia	1.3	35.6	9.4	50.7	3.1	772,233
Madrid (Comunidad de)	2.3	20.3	21.5	51.9	4.0	695,922
Murcia (Región de)	1.0	26.5	17.1	54.0	1.4	264,823
Navarra (Comunidad Foral de)	2.8	14.3	28.4	52.9	1.5	325,083
País Vasco	2.1	7.5	27.9	57.6	4.9	1,129,918
Rioja (La)	2.0	23.6	21.5	51.0	1.8	94,083

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