Environment and energy

1. Energy consumption

Denmark self-sufficient as regards energy

Since 1997, Denmark has been self-sufficient as regards energy thanks to the increased extraction of crude oil and natural gas from the North Sea. In 2004, the production of oil and gas was 56 per cent higher than the total consumption of energy.

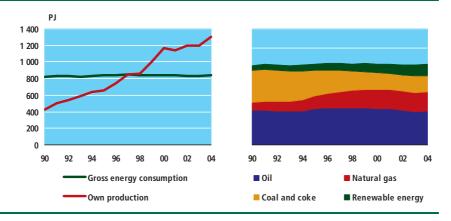
More renewable energy sources

The consumption of coal and coke fell by 7 per cent from 2003 to 2004. The consumption of natural gas had a 3 per cent increase, while the consumption of renewable energy now accounts for 15 per cent of total gross energy consumption. This plays a particularly important part as regards environmental issues, as an increase in the use of such energy can cause a reduction in carbon dioxide emissions by replacing the use of fossil fuels such as coal and oil. Renewable energy sources include the carbon-dioxide free types of energy such as wind power and solar power as well as carbon-dioxide neutral fuels such as hay and wood, which absorb carbon dioxide from the atmosphere during growth, only to release it again when burnt.

Stable energy consumption in recent years

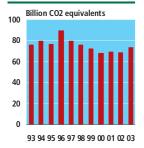
Gross energy consumption comprises the consumption of oil, natural gas, coal and renewable energy. When calculating gross energy consumption, adjustments are made to take into account imports and exports of electricity. Total gross energy consumption has remained stable in recent years, whereas the composition of fuels has changed markedly, resulting in an increase in the consumption of natural gas and renewable energy and a subsequent decrease in coal consumption. In Denmark, the consumption of coal and coke depends on how much electricity we export. In 2004, there was a decrease in the export of electricity to Norway and Sweden and a subsequent decrease in the consumption of coal and coke.

Figure 1 Gross energy consumption 1990-2004



2. Air pollution

Figure 2 Emissions of greenhouse gases 1993-2003



Greenhouse gases

The air and the environment are subjected to a significant pressure created by humans from the burning of fossil fuels, which entails emissions of greenhouse gases such as carbon dioxide (CO_2), laughing gas (N_2O), methane (CH_4), and chlorofluorocarbons (CFCs). Carbon dioxide is the most important of these substances. Greenhouse gases are not dangerous in themselves for human beings, but in greater quantities they are assumed to contribute to a gradual increase in average global temperatures.

Fall in emissions of greenhouse gases since 1996

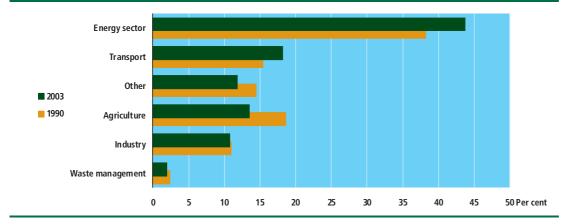
Denmark's emissions of carbon dioxide vary over the years, a fact which is partly due to the net exports of electricity. In years when Denmark has a large export of electricity, carbon-dioxide emissions increase as power generation increases. However, reductions in the emissions of carbon dioxide have been achieved by replacing fossil fuels, such as coal, by natural gas and renewable energy and by an increase in energy effectiveness. The effect of the various greenhouse gases on the atmosphere varies. They are therefore converted to the so called $\rm CO_2$ -equivalents. $\rm 1~CO_2$ -equivalent indicates the effect of the various greenhouse gases converted to the quantity of carbon dioxide that would have the same climatic impact – 1 kg carbon dioxide corresponds to 1 $\rm CO_2$ -equivalent. The emission of greenhouse gases peaked in 1996 with 90 billion $\rm CO_2$ -equivalents.

The energy sector is the main source of emissions

In 2003, the energy sector accounted for 44 per cent of total greenhouse gases measured in CO_2 -equivalents compared to 38 per cent in 1990. The transport sector was also a large contributor accounting for 18 per cent of total emissions in 2003. The majority of emissions of methane (CH_4) come from agriculture and nature (e.g. emissions from ruminant animals and bogs). Emissions of laughing gas (N_2O) result mainly from the use of nitrogenous fertilisers. Agriculture contributed with 14 per cent of total emissions of greenhouse gases in 2003 measured in CO_2 -equivalents.

Figure 3

Emissions of greenhouse gases (CO₂-equivalents) by sectors

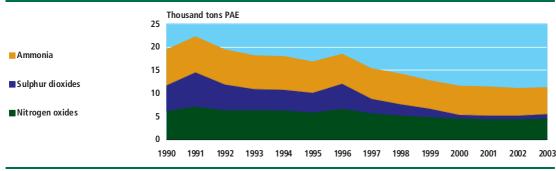


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Acidification

The environment is also subjected to significant pressure from the increased acidity of the air. Acidification occurs when emissions of nitrogen and sulphur fall with precipitation in the form of ammonia (NH_3), nitrogen oxides (NO_x) and sulphur dioxides (SO_2). Sulphur and nitrogen combine to form acidic chemical compounds which cause buildings to deteriorate and are harmful to plants and the aquatic environment. Acidification is calculated by means of Potential Acidification Equivalents (PAEs), which is a common acidification unit for all acidifying substances and is used to compare the effect of the various substances on the environment.

Figure 4 Acidification from Danish activities 1990-2003



Source: National Environmental Research Institute of Denmark.

The total emission of ammonia, sulphur dioxides and nitrogen oxides has fallen from 20,000 tonnes PAE in 1990 to 11,000 tonnes in 2003. The largest fall has been for sulphur dioxides. The acidifying substances come mainly from agriculture, from energy conversion within the energy sector, and from the transport sector. In 1990, agriculture was the largest contributor, accounting for 40 per cent of total Danish emissions. Energy conversion accounted for 31 per cent and the transport sector for 15 per cent. In 2003, agriculture accounted for the greater share of emissions, 50 per cent, while the transport sector and energy conversion accounted for 17 per cent of emissions.

The environmental strain caused by the transport sector

Transport interlinks a society, but is also a strain on the environment. Construction of roads, railways, ports and airports is the prerequisite of transport, which may have a negative impact on our recreational natural resorts. The strain caused by transport in urban areas is, for example, noise, particulates, laughing gas, nitrogen oxides, carbon monoxide, sulphur dioxide, volatile hydrocarbons (NMVOC), etc. In the present context, the transport sector is defined as overall road transport, railway transport, air and sea transport in Denmark.

A decrease in the environmental strain caused by the transport sector

One method in which to estimate the environmental strain caused by the transport sector is to look at the trends in emissions of the most important substances from the transport sector and the transport sector's energy consumption, compared to the social and economic activities in terms of the Gross National Product (GDP). If an index in the figure below is less than 100 over time, a so-called decoupling effect from the energy consumption is taking place.

Figure 5

Relaxation indicators for the transport sector 1990-2003

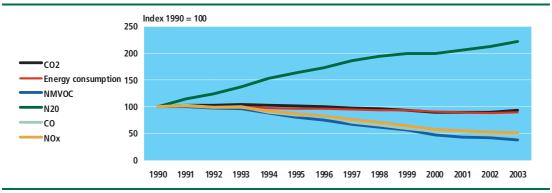
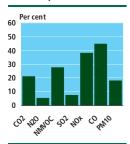


Figure 6
Percentage of all national emissions accounted for by the transport sector, 2003



Source: National Environmental Research Institute. The period 1990 to 2003 saw a considerable relaxation of the most important environmental emissions from the transport sector. The greatest relaxation is attributed to volatile hydrocarbons, where emissions in 2002 only reached 42 per cent of the 1990 level. Since 1997, there has been a steady relaxation in emissions of carbon dioxide, whereas emissions of laughing gas accounted for a considerably higher increase in emissions from the transport sector.

The transport sector accounts for the highest share of emissions of carbon monoxide

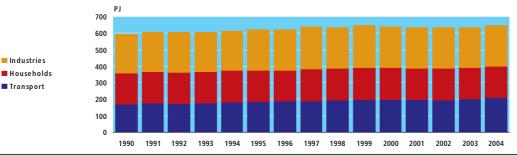
The transport sector's share of total national emissions in 2003 was the highest for carbon monoxide reaching 45 per cent and the lowest for laughing gas reaching 5 per cent. The largest contributor to emissions of carbon monoxide is the transport sector. The shares do not reflect absolute emissions measured in tonnes or the damaging effects on the environment.

The transport sector accounts for an increasing share of energy consumption

Comparisons of energy consumption in terms of energy units by the transport sector with energy consumption by households and industries over the period 1990 to 2004 show that there is a minor increase in the transport sector's share of total energy consumption, whereas the share of industries and households shows a minor fall. The transport sector's share has increased from 29 per cent of total energy consumption in 1990 to 32 per cent in 2004.

Figure 7

Final energy consumption by sector 1990-2004



Source: Danish Energy Authority

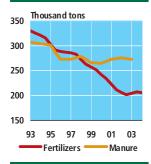
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3. Agriculture

Figure 8 Nitrogen in manure and commercial fertilizers 1993-2004



Declining use of fertilizers in agriculture

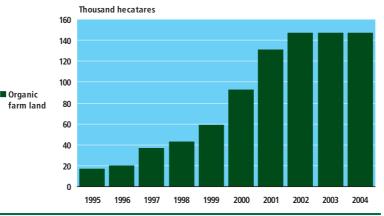
Agricultural production of animal and vegetable products involves the use of manure and commercial fertilizers. This causes large quantities of nitrogen and small quantities of phosphorus to be discharged into the soil. Some nitrogen and phosphorus is not received by plants and as a consequence is leached from the soil, leading to a discharge of these substances into the ocean via water run offs. The adverse effects include undesirable algae growth, resulting in an undesirable environmental state. The use of especially commercial fertilizers has declined over a long period, but has shown a minor increase in the crop year 2003/2004.

More organic farmland

The proportion of organic farmland has increased significantly since 1995. For example, the amount of land used for organic farming doubled from 1997 to 1999. In recent years, the growth in organic farmland has been decreasing and accounted for 147,000 hectares in 2004, corresponding to 6 per cent of all Danish farmland.

Figure 9

Total area extent of organic farms 1990-2004



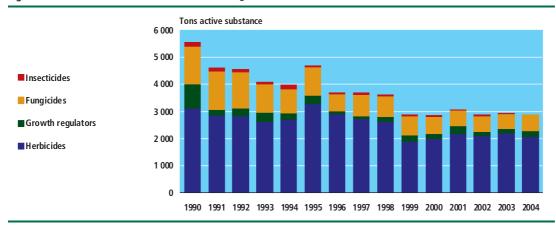
Source: Plant Directorate. Note: the area extent includes forests.

Combat of weeds, pests, and fungi is harmful for the environment

Pesticides are chemical products mainly used within agriculture to combat weeds, fungi, and insects. Effective control of pests, weeds, and fungi in fields has had an indirect effect on the number of animals that feed on insects. The effect might be fatal or entail a reduction in the reproductive abilities of the relevant animals. Pesticides are divided into products that protect crops against weeds, herbicides, against fungus infection, fungicides, and against insects, insecticides. There are also products that shorten crops, growth regulators.

Figure 10

Pesticide sales to agriculture 1990-2004



Source: Danish Environmental Protection Agency.

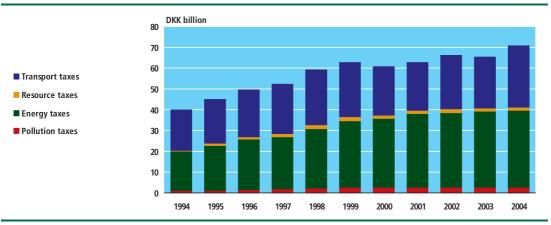
4. Public sector response

Environmental taxes

Denmark's environmental policy involves an increasing use of environmental taxes. Environmental taxes comprise pollution taxes, energy taxes, resource taxes and transport taxes. In 2004, the total revenue generated from these taxes was DKK 70.6 billion, corresponding to 10 per cent of total revenues from taxes and duties. Energy taxes accounted for the greatest increase. Total revenue generated from energy taxes amounted to DKK 37 billion in 2004, corresponding to 52.4 per cent of total revenue from environmental taxes. In the same year, transport taxes accounted for DKK 29.3 billion or 41.5 per cent of environmental taxes. Pollution taxes accounted for 4 per cent and resource taxes for 2 per cent

Figure 11

Environmental taxes 1994-2004



Energy taxes comprise taxes and duties on carbon dioxide, sulphur dioxide, electricity, natural gas, petrol and specific petroleum products. Transport taxes comprise taxes and duties on tyres, third-party liability insurance and sales of number

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plates for motor vehicles, weight duties and registration duties and passenger duties. Pollution taxes comprise taxes and duties on CFCs, PVCs, phthalates, chlorinate solvents, growth stimulants, pesticides, specific retail containers, nickel/cadmium batteries, and waste and waste water. Resource taxes comprise taxes and duties on game and fishing licence, quarrying and imports of raw materials, and piped water.

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
					μg/m3 sulphu	ır dioxide —				
Copenhagen	9.0	7.1	4.6	4.4	4.0	3.3	1			
Ålborg	4.0	5.0	2.7	2.7	1.8		1			
Odense	3.8	4.9	2.6	2.2	1.7	1.3	1			
					μg/m3 nitroge	en dioxide —				
Copenhagen	52.6	44.7	43.0	43.0	47.0	42.0	40.0	47.0	47.0	46.0
Ålborg	37.4	37.6	34.0	34.0	40.0	35.0	35.0	33.0	35.0	35.0
Odense	34.0	34.0	36.0	32.0	33.0	31.0	31.0	37.0	35.0	32.0
Århus							43.0	44.0	46.0	45.0
					ng/m3 l	ead ———				
Copenhagen	26.0	24.8	16.6	16.4	16.6	29.6	23.4 ²	17.5	15.1	10.7
Ålborg	31.4	18.6	13.9	13.0	12.5		12.5 ²	10.5	9.9	6.8
Odense	22.3	22.0	15.0	14.5	13.6	13.0	11.3 ²	12.0	19.5	11.4
Århus							8.9 ²	8.5	11.5	7.6
					– μg/m3 parti	iculates ——				
Copenhagen	61.4	65.3	46.8	45.6	47.2	48.7	34.2 ²	36.0	32.9	32.0
Ålborg	56.1	68.9	53.7	50.7	51.3		29.0 ²	31.8	31.2	27.0
Odense	53.3	62.7	61.4	45.5	48.7	44.4	30.9^{2}	33.2	36.7	31.0
Århus							31.7	29.6	29.4	23.2

Note. $\mu g/m^3$ corresponds to a millionth of a gram per cubic meter, while ng/m^3 corresponds to a billionth of a gram per cubic meter.

Table 358

Extraction of raw materials

	1990	1995	2000	2004
		m3 in thousa	nds —	
Extraction of raw materials,				
total	33 976	34 211	40 945	39 444
Extraction from land area:	28 106	28 558	33 809	32 774
Stone, gravel, sand	22 534	21 721	27 587	27 058
Granite	810	662	199	186
Chalk, limestone	2 924	4 049	3 405	3 252
Clay	462	739	788	648
Plastic clay and bentonite	303	311	313	297
Quartz sand	186	191	479	486
Moler	195	186	227	226
Peat and sphagnum	399	259	247	345
Other raw materials	292	440	563	276
Extraction from sea area Sand, gravel, sand for land filling etc.	5 870	5 652	7 136	6 670

Source: Extraction from sea area is collected in the National Forest and Nature Agency.

¹ Due to the low concentration of sulphur dioxide in the air, measurements have been discontinued. ² From 2001 new measurement method. Source: National Environmental Research Institute.

[■] For further information visit www.statbank.dk/term8

[☐] For further information visit www.statbank.dk/rst1

	House- holds	Industry and institutions	Irrigation	Losses, etc.	All Denmark
			— mio. m ³ —		
All Denmark	250.0	191.6	189.2	28.0	658.9
Copenhagen County ¹	55.8	28.8	0.0	4.3	88.9
Frederiksborg County	16.6	5.6	1.0	1.8	25.0
Roskilde County	10.3	8.5	0.1	1.2	20.1
West Zealand County	10.6	18.3	0.2	1.8	30.9
Storstrøm County	11.1	7.5	0.7	1.4	20.7
Bornholm Municipality	2.7	1.0	0.0	0.1	3.9
Funen County	21.2	16.4	0.4	2.8	40.8
South Jutland County	14.9	8.3	25.4	1.8	50.4
Ribe County	10.9	13.3	48.6	1.3	74.0
Vejle County	13.9	14.5	20.2	2.2	50.9
Ringkøbing County	13.8	17.2	57.0	2.1	90.1
Aarhus County	31.8	15.8	4.0	3.3	54.9
Viborg County	13.6	9.6	8.1	1.7	33.1
North Jutland County	23.0	26.7	23.5	2.1	75.3

¹ Copenhagen County includes Copenhagen and Frederiksberg Municipalities.

Table 360

Consumption of drinking water by purpose

	2002	2003	2004
		m ³ in mio.	
All Denmark	645.8	629.9	658.9
Households	247.7	245.5	250.0
Industry and institutions	215.4	193.3	191.6
Irrigation	157.6	162.8	189.2
Losses, etc.	25.0	28.2	28.0

[☐] For further information www.statbank.dk/vand1

Table 361

Decoupling indicators for the transport sector

	1995	2000	2003
		Index 1990 = 100 —	
CO ₂	101	90	93
Energy consumption	97	91	89
NMVOC	81	48	38
N2O	164	200	222
CO	85	54	47
NOx	87	58	51

Note. The indicators expresses the development in emissions from the transport sector in relation to the development in the economy expressed in the Gross domestic product (GDP).

[☐] For further information www.statbank.dk/vand1

	1999	2000	2001	2002	2003	2004
			tons			
Sales of pesticide products ¹						
Total sale	12 445	12 141	12 120	12 090	11 736	11 634
Repellents	84	35	23	30	32	24
Fungicides	1 999	1 757	1 625	1 684	1 744	1 849
Rodenticides	441	458	625	422	420	380
Herbicides	5 740	5 641	6 368	6 340	6 096	6 330
Insecticides	900	745	672	803	837	686
Soil disinfectants	4	2	10	6	5	4
Combined fungicides and insecticides	16	15	12	23	22	9
Algicides	1	4	5	3	2	2
Slimicides for use in paper pulp	60	61	54	39	28	33
Products against pests on farm animals	111	134	189	250	106	80
Products for the protection of woodwork	2 657	2 869	1 992	2 234	2 126	1 874
Plant growth regulators	432	420	546	256	317	364
Of which active ingredients ²						
Active ingredients, total	3 605	3 551	3 687	3 556	3 553	3 513
Repellents	6	7	4	4	6	3
Fungicides	884	734	654	683	665	720
Rodenticides	3	6	2	4	3	4
Herbicides	2 059	2 136	2 364	2 369	2 390	2 311
Insecticides	86	77	87	89	92	82
Soil disinfectants	4	2	2	5	5	4
Combined fungicides and insecticides	2	4	6	11	12	8
Algicides	1	1	1	1	1	1
Slimicides for use in paper pulp	42	42	33	32	28	33
Products against pests on farm animals	1	1	2	2	2	1
Products for the protection of woodwork	261	295	189	197	171	137
Plant growth regulators	257	245	337	158	179	209

¹ A pesticide product comprises one or more effective substances, emulators, adhesives and inactive fillers. ² That part of the product, which has a toxic effect. Source: Danish Environmental Protection Agency.

Table 363

Bathing water quality

	Monitoring stations	Acceptable water quality	Unacceptable water quality	Beach areas where bathing is forbidden
1985	1 374	1 017	288	69
1990	1 370	1 251	70	49
1991	1 338	1 230	70	38
1992	1 307	1 225	54	28
1993	1 282	1 206	55	21
1994	1 288	1 234	33	21
1995	1 301	1 227	54	20
1996	1 299	1 223	57	19
1997	1 310	1 275	18	17
1998	1 307	1 244	45	18
1999	1 307	1 260	30	17
2000	1 295	1 250	28	17
2001	1 279	1 247	17	15
2002	1 275	1 222	38	15
2003	1 269	1 223	30	16
2004	1 256	1 219	23	16
2005	1 249	1 225	10	14

Source: Environmental Protection Agency.

[☐] For further information visit www.statbank.dk/pest2

	CO ₂	NO_x	SO ₂	CO
		——— thousand tons		
Total ¹	12 785	77	2.2	294
Road transport	11 864	65	0.4	273
Railway transport	218	4	0.0	1
Air transport	138	1	0.0	1
Sea transport	565	9	1.9	20
		per cent —		
Total ¹	100	100	100	100
Road transport	93	83	17	93
Railway transport	2	5	0	0
Air transport	1	1	0	0
Sea transport	4	11	83	7

¹ Emissions from military not included.

Source: National Environmental Research Institute.

Table 365

Emission of greenhouse gases1

	1994	1995	1996	1997	1998	1999	2000	2001	2001	2003
_					— mia. GV	VP ———				
Total	79	76	90	80	76	72	68	69	68	73
Transport	12	12	12	13	13	13	13	13	13	13
Manufacturing and										
production	8	8	8	9	8	9	8	8	8	8
Energy sector	36	33	45	36	32	29	26	27	27	32
Waste disposal	2	2	2	2	1	1	1	1	1	1
Agriculture	12	12	12	11	11	11	11	10	10	10
Other	10	10	11	10	10	10	9	9	9	9

¹ Carbon dioxide, laughing gas and methane.

Source: National Environmental Research Institute.

Table 366

Emission of acidification¹

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
					thousand to	ns PAE ——				
Total	18	17	19	15	14	13	12	11	11	11
Transport	3	3	3	3	2	2	2	2	2	2
Manufacturing and										
production	1	1	1	1	1	1	1	1	0	0
Energy sector	6	5	7	4	3	2	2	1	2	2
Waste disposal	-	-	-	-	-	-	-	-	-	-
Agriculture	7	7	6	6	6	6	6	6	6	6
Other	2	2	2	2	2	2	1	1	1	1

¹ Sulphur dioxide, nitrogen oxides and ammonia.

 $Source: The \ National \ Environmental \ Research \ Institute \ of \ Denmark.$

[■] For further information visit www.statbank.dk/term6

[☐] For further information visit www.statbank.dk/luft4

[☐] For further information visit www.statbank.dk/luft5

Expenditure and revenue by environmental domains. General government

	2000	2002	2004*
		— DKK mio.—	
Current and capital expenditure, total	23 415	24 515	24 894
Air and climate	2 315	1 429	795
Waste water	5 438	5 846	6 693
Waste	7 135	8 078	8 581
Soil and ground water	752	843	823
Biodiversity and landscape	2 118	2 511	2 470
Research and development	1 541	1 522	1 538
Environmental assistance	1 840	1 949	1 490
Other ¹	2 276	2 337	2 504
Current and capital revenue, total ²	14 125	15 271	15 701
Air and climate	11	18	200
Waste water	5 534	5 765	6 230
Waste	7 242	7 587	7 896
Soil and ground water	153	102	77
Biodiversity and landscape	273	901	350
Research and development	576	571	603
Other ¹	337	327	344

Note. Includes market services.

Table 368

Environmental expenditure and revenues. General government

	2000	2002	2004*
		— mio. kr. ———	
Current and capital expenditure, total	23 415	24 515	24 894
Current expenditure, total	18 688	19 757	19 979
Compensation of employees	4 121	4 422	4 728
Intermediate consumption	10 614	11 117	11 754
Current transfers, total	3 954	4 218	3 496
Capital expenditure, total	4 727	4 758	4 916
Fixed gross investments	3 211	3 864	4 499
Other capital expenditure	1 516	894	417
Current and capital revenue, total ¹	14 125	15 271	15 701
Capital revenue, total	13 687	14 741	15 374
Sales of goods and services	12 757	13 327	14 185
Current transfers, total	930	1 414	1 189
Compulsory contributions	6	6	6
Other current transfers	924	1 408	1 183
Capital revenue, total	438	530	327

¹ Excluding environmental taxes.

 $^{^{\}rm 1}$ Including administration. $^{\rm 2}$ Excluding environmental taxes.

[☐] For further information visit www.statbank.dk/mreg2

[☐] For further information visit www.statbank.dk/mreg2

	Central government	Counties	Municipalities	General government sector, total ¹
		DKK mio). 	
Current and capital expenditure, total	5 608	2 337	16 950	24 894
Air and climate	795	0	0	795
Waste water	3	0	6 690	6 693
Waste	261	0	8 321	8 581
Soil and ground water	137	618	67	823
Biodiversity and landscape	976	1 101	392	2 470
Research and development	1 538	0	0	1 538
Environmental assistance	1 490	0	0	1 490
Other ³	407	618	1 480	2 504
Current and capital revenue, total ²	1 183	166	14 352	15 701
Air and climate	200	0	0	200
Waste water	1	0	6 230	6 230
Waste	2	0	7 894	7 896
Soil and ground water	57	17	3	77
Biodiversity and landscape	271	40	40	350
Research and development	603	0	0	603
Other ³	49	110	185	344

¹ Unconsolidated. ² Excluding environmental taxes. ³ Including administration.

Table 370

Environmental expenditure and revenues 2004*. Subsectors

	Central government	Counties	Municipalities	General government, total ¹
		— DKK mio		
Current and capital expenditure, total	5 608	2 337	16 950	24 894
Current expenditure, total	5 002	2 161	12 816	19 979
Compensation of employees	1 100	908	2 720	4 728
Intermediate consumption	973	1 022	9 759	11 754
Current transfers, total	2 929	231	337	3 496
Capital expenditure, total	606	176	4 134	4 916
Fixed gross investments	292	148	4 059	4 499
Other capital expenditure	314	28	75	417
Current and capital revenue, total ²	1 183	166	14 352	15 701
Capital revenue, total	1 161	151	14 061	15 374
Sales of goods and services	259	51	13 874	14 185
Current transfers, total	902	100	187	1 189
Compulsory contributions	0	0	6	6
Other current transfers	902	100	181	1 183
Capital revenue, total	21	15	291	327

¹ Unconsolidated. ² Excluding environmental taxes.

[☐] For further information visit www.statbank.dk/mreg2

[☐] For further information visit www.statbank.dk/mreg2

	Crude oil and semi- manufac- tured oil	Coal, coke, etc.	Oil products	Natural gas	Other gas	Renewable energy resources	Electricity	District heating
	——— the	ousand tons		mio Nm ³	thousand tons	TJ	GWh	TJ
Production	19 275	-	8 074	9 202	451	96 006	38 380	130 074
Imports	3 761	7 616	5 467	-	4		8 673	-
Stock	2	231	1 211	1 099	11	-	-	-
Waste and cable losses	87	76	83	3	5		2 259	26 046
Exports	14 352	8	5 262	3 208	103		11 545	
Total domestic supply	8 594	7 301	6 986	4 891	336	103 448	33 249	104 028
Households	-	2	2 568	738	49	13 102	10 316	64 036
Agriculture, fishing, quarrying	-	6	802	826	4		1 979	1 989
Agriculture, horticulture, and forestry	-	4	583	87	3	3 771	1 828	1 985
Fishing	-	-	175		0	-	59	-
Mining and quarrying	-	2	43	739	1	66	92	4
Manufacturing	8 594	330	742	914	259	4 174	9 596	7 654
Mfr. of food, beverages and tobacco	-	82	205	314	6	136	2 274	852
Mfr. of textile and leather	-	-	10	27	0	33	208	181
Mfr. of wood products, printing and publishing	-	1	33	101	2		1 157	2 510
Mfr. of chemicals and plastic products	8 594	23 224	69 289	168 137	232 8	21 823	2 243 852	1 787 96
Mfr. of other non-metallic mineral products Mfr. of basic metals and fabr. metal products	-	0	120	150	10	94	2 298	1 961
Mfr. of furniture and manufacturing n.e.c.	-	-	16	19	10	1 431	564	267
Electricity, gas and water supply		6 963	380	2 105	0		508	16
Construction	-	-	388	6	5		297	
Wholesale and retail trade,								
hotels, restaurants Sale and repair of motor vehicles,	•	-	331	102	3	-	3 960	10 232
sale of auto. fuel	-	-	82	11	0		391	1 090
Wholesale, except of motor vehicles	-	-	177	41	2	-	1 304	4 140
Retail trade and repair work, exc. of m. vehicles	-	-	56	27	0	-	1 730	2 684
Hotels and restaurants	-	-	16	23	1	-	535	2 319
Transport, post and telecommunications	-	-	1 390	12	10	-	1 506	1 180
Transport	-	-	1 370	6	10	-	1 214	557
Post and telecommunications	-	-	20	6	-	-	292	622
Finance and business activities	-	-	119	51	1	-	1 345	5 061
Finance and insurance	-	-	8	9	-	-	254	923
Letting and sale of real estate	-	-	25	7	0	-	129	714
Business activities	-	-	86	34	1	-	962	3 424
Public and personal services	-	-	265	138	4		3 743	13 860
Public administration	-	-	123	17	2	-	444	1 688
Education	-	-	32	31	0	-	866	3 141
Human health activities	-	-	14 35	19	0	-	525	1 903
Social institutions etc.	-	-	35 61	32 40	1	-	870 1 038	3 157 3 970
Associations, culture and refuse disposal	-	-	01	40	- 1	-	1 038	3 9/0

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Environment and energy

	1995	2000	2004
Energy consumption, gross			
Hard coal etc.	10 987	6 571	7 269
Coke and furnace coke	51	41	30
Brown coal etc.	9	2	1
Waste	2 314	2 905	3 530
Fuel wood, etc.	1 255	1 338	2 044
Straw	843	843	1 408
Kerosene	14	4	11
Jet fuel	657	535	668
Motor gasoline ¹	1 887	1 965	1 969
Other petrol and oil products ²	750	1 251	1
Gas/Diesel oil	3 897	3 493	3 598
Fuel oil	998	596	655
Petroleum-coke	176	224	275
Liquid gas (LPG)	87	76	70
Refinery gas	370	294	231
		— mio. Nm ³ —	
Natural gas ³	3 009	4 205	4 212
		— thousand GJ —	
Biogas	1 277	1 433	1 495
Wind energy and water power	4 347	15 375	23 794
Electricity supply		mio. KWh	
Electricity sold, total	31 435	32 835	33 247
Dwellings	9 550	9 592	9 718
Agriculture, etc.	2 544	2 568	2 475
Manufacturing	9 449	9 832	9 671
Other industries, public administration, etc.	9 891	10 843	11 384
Crude oil and natural gas	— thousand tons —		
Crude oil, Danish production	9 263	17 780	19 262
		mio. Nm ³	
Natural gas, Danish production	5 165	7 883	9 202

¹ 1995 corrected for cross-border trade. ² Including waste oil and orimulsion. ³ Excl. consumption on North-Sea platforms. Source: Association of Danish Energy Companies.

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		Solid fuel	Liquid fuel	Gas I	Electricity	District heating
			thousand GJ			
	Manufacturing, total ^{1,2}	11 936	20 934	51 271	29 397	6 619
14009	Extraction of gravel and clay etc.	150	903	2 448	253	1
15009 151000 155000 158909 159000 160000	Mfr. of food, beverages and tobacco ² Production etc. of meat and meat products Mfr. of dairy products Mfr. of other food products Mfr. of beverages Mfr. of tobacco products	2 073 0 - 2 070 - 3	6 799 938 638 5 024 182 17	13 926 2 118 3 326 5 673 2 679 129	7 584 1 941 1 417 3 525 615 86	98 6 1 056 291 10
17009 170000 180000 190000	Mfr. of textiles and leather Mfr. of textiles Mfr. of wearing apparel Mfr. of leather and footwear	3 - 3 -	60 52 5 3	883 807 34 43	544 484 33 27	55 35 20 0
20000	Mfr. of wood and wood products	1 287	323	195	832	573
21009 210000 221200 221309 222009	Mfr. of paper prod.; printing and publ. Mfr. of pulp, paper and paper products Publishing of newspapers Publishing activities, excluding newspapers Printing activities	39 36 - - 3	219 194 1 3 22	3 360 3 036 13 30 281	1 914 1 175 98 61 581	1 340 1 158 60 19 102
23000	Mfr. of refined petroleum products etc.	-	918	12 431	891	260
24000 241009 243009 244000	Mfr. of chemicals Mfr. of chemical raw materials Mfr. of paints and soap Mfr. of pharmaceuticals	556 - 556	952 400 156 396	5 159 3 247 966 946	4 120 1 819 946 1 354	1 228 444 83 700
25000	Mfr. of rubber and plastic products	14	186	1 146	2 305	112
26000 261009 263009	Mfr. of other non-metallic mineral prod. Mfr. of glass and ceramic goods Mfr. of tiles, bricks cement and concrete	6 644 0 6 644	9 026 15 9 011	5 436 1 409 4 028	2 628 518 2 111	61 13 48
27009 270000 281009 286009	Mfr. and processing of basic metal Mfr. of basic metal Mfr. of building materials of metal Mfr. of various metal products	56 0 32 24	604 136 359 109	2 993 1 663 580 751	2 891 1 249 819 824	331 95 155 81
29000 291000 292000 293000 294009 297000	Mfr. of machinery and equipment Mfr. of marine engines and compressors Mfr. of ovens and cold-storage plants Mfr. of agricultural machinery Mfr. of machinery for industries Mfr. of domestic appliances	8 - 2 - 4 3	565 104 208 99 136 19	1 449 697 255 230 184 83	1 950 946 431 129 328 115	545 274 130 13 85 44
30009 300009 320000 330000	Mfr. of electronic components Mfr. of computers and electric motors Mfr. of radio and communication equipment Mfr. of medical and optical instruments	40 6 31 3	150 87 15 49	811 465 207 139	1 370 659 326 385	425 237 40 148
35009 351000 352009	Mfr. of transport equipment Building of ships and boats Mfr. of transport equipment, excl. ships	10 3 7	95 37 58	594 277 317	591 233 358	89 37 53
36000 361000 365009	Mfr. of furniture; manufacturing n.e.c. Mfr. of furniture Mfr. of toys and jewellery	1 056 1 036 20	135 119 15	439 324 115	1 524 1 026 498	139 76 63

Note. The table includes workplaces in firms with 20 or more employed in the industry.

 $^{^{\}rm 1}$ Incl. extraction of gravel, clay, stone and salt, etc. $^{\rm 2}$ Excl. bakeries.

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	1990	2000	2004
		РЈ	
Transport Households	170	199	209
Households	186	190	189
Industry	236	249	247

Note. Figures are climate-corrected which means that variations in the climate are incorporated.

Table 375 Production of renewable energy

	1990	2000	2004
		tj	
Total production	52 631	89 205	118 472
Solar energy	100	335	392
Wind power	2 197	15 268	23 699
Water power	101	109	95
Straw	12 481	12 220	17 939
Wood chips	1 724	2 744	6 760
Firewood	8 757	11 655	12 163
Wood pellets	1 575	2 984	3 276
Wood wastes	6 191	6 895	6 455
Biogas	752	2 912	3 738
Waste combustion	15 499	30 392	36 990
Biodiesel	-	-	2 444
Fish oil	744	49	649
Geothermal heat ¹	2 510	3 644	3 872

¹ Heat pumps and geothermal power.

Source: Danish Energy Authority.

[■] For further information www.statbank.dk/term1