# Geography, environment and energy

Climate and area

Infrastructure

Environment

Energy



## **Climate and area**

#### The long Danish coastline

Denmark is a small country, compared to its closest neighbours. Sweden and Germany are, respectively, ten times and eight times larger than Denmark, which has an area of more than 43,000 km<sup>2</sup>. On the other hand, Denmark's coastline is extraordinarily long for a country of this size. Denmark stretches along a coast of more than 7,300 km, which is longer than the Great Wall of China. It corresponds to almost one and a half metre of coast per inhabitant.

One characteristic of Denmark's geography is the many islands, a total of 391. The largest islands are, by order of mention, Sjælland, Vendsyssel-Thy, Fyn, Lolland and Bornholm. Jutland (including Vendsyssel-Thy) account for 69 per cent of Denmark's total area.

In addition to Denmark, the Kingdom of Denmark includes the self-governing areas of Greenland and the Faroe Islands. The ice-free part of Greenland is almost ten times larger than Denmark and Denmark is 30 times larger than the Faroe Islands.

#### Denmark's nature is characterized by agriculture and forests

For thousands of years, Denmark has been an agricultural country, and this has largely characterized the Danish landscape. Consequently, two thirds of the landscape consists of man-made agricultural areas. However, forests are also evident in the landscape in the form of, among other types, deciduous forest and coniferous forest. Rold Skov and Gribskov are the largest forests.



#### Man-made infrastructure and buildings characterize the landscape

Cities, roads, railroads, bridges and other types of man-made surfaces cover a total of 10 per cent of Denmark's area, corresponding to three times the area of the Faroe Islands – or 56 per cent of Sjælland. Urban centres, such as residential neighbourhoods and industrial districts, dominate and account for three-fourths of the man-made surfaces.

#### It rains or snows every other day

The Danish weather is known for being variable. It is a fact that it rains or snows every other day in Denmark, since a year has an average of 171 days of precipitation.

#### Snow seven days a month during the wintertime

Denmark has mild winters without large amounts of snow, but with much rain. On average, it snows seven days every month in December, January and February. This decreases to five days of snow in March, and April has an average of three days of snow.





Source: www.dmi.dk

## Temperature variations of 16 °C during a year

In a year, the average temperature generally varies from 1 °C in January to 20 °C in August. Great variations occur in relation to the average. The coldest day in more than 100 years was a January day in 1982 with temperatures of -31 °C, and the warmest day was an August day in 1975 with temperatures of 36 °C.

#### "... and it will be overcast again today"

A natural feature of everyday life in Denmark is overcast days and many clouds in the sky. The clouds cover an average of two thirds of the sky in a year, but the summer is the least cloudy season with an average cloudiness of 60 per cent.

#### Not many days of sunshine in a year

Denmark is a country where the total hours of sunshine a year gives occasion to enjoy the sun while it is out. There is an average of four hours of sunshine a day, naturally primarily during the spring and summertime. From May to August, there are more than six hours of sunshine a day.

## Infrastructure

#### Extension of motorways and dual-carriageways

There were 74,407 km of public roads in Denmark on 1 January 2014. After the restructuring of the administrative regions in 2007 the new municipalities took over the administration of the earlier locally oriented county roads, while the state took over the administration of the other primary roads of the former counties. The state road network comprises 5 per cent of the public road network. The other 95 per cent are administered by the municipalities.

The majority of the public road network (65 per cent) is in Jutland, while the rest is distributed between the Copenhagen region (9 per cent) and the remaining part of the islands (26 per cent).

The public road network has increased by nearly 2,300 km over the past ten years, mainly because of more municipal roads. Simultaneously the principal road network has been enlarged.

Since 2004, the motorway network has been extended by 18 per cent to 1,216 km in 2014, and the length of the dual-carriageways has increased by 15 per cent to 391 km in 2014.



www.statbank.dk/vej11 and vej20

#### Almost a quarter of the rail network is electrified

The length of the total rail network was 2,636 km on 1 January 2014, the same as the previous year. Viewed in relation to the total area of Denmark, there is 62 km of railway per 1,000 km<sup>2</sup>. The main part of the rail network is operated by the state-owned Banedanmark.

The regional railways are responsible for operating 520 km of rail network and Copenhagen Metro for 21 km. Since 1990, the rail network has decreased by more than 200 km, mainly due to closure, by Banedanmark, of sections carrying goods.

At the beginning of 2014, almost a quarter of the rail network was electrified. This is three times more than in 1990, but unchanged compared to 2013.

#### Goods transport by ship is concentrated at 22 sea ports

In 2012, there were 108 Danish ports handling freight. The 22 largest ports each handled more than 1 million tonnes of goods annually, and accounted for 84 per cent of the total goods transport by sea.

In terms of throughput of goods, the ports of Fredericia and Aarhus are the greatest Danish ports handling, respectively, 12 per cent and 9 per cent of total throughput of goods in sea.

#### Ferry and passenger ship traffic is concentrated at 33 ports

73 ports are engaged in transport of passengers, of which 33 of them have more than 200,000 arriving and departing passengers every year and account for 91 per cent of passengers in Danish ports. The greatest Danish ferry port is Helsingør accounting for 19 per cent of all sea passengers, followed by Rødby Færgehavn with 15 per cent of all passengers in 2013.

## Environment

#### **Greenhouse gases**

86 per cent of the global warming potential from Danish greenhouse gases came from  $CO_2$  in 2012. Methane accounted for 7 per cent, while nitrous oxide contributed 6 per cent. The emissions of halocarbons constituted less than 1 per cent of the total Danish global warming potential. By converting the emissions into  $CO_2$ -equivalents account have been taken for the fact that the effects of the substances on the atmosphere, and, thus, their global warming potentials, are different.

### Figure 4 Greenhouse gas emissions from Danish economic activities



Note: The halocarbons (at the top of the figure) constitute less than 1 million tonnes CO2-equivalents and are hardly visible.

#### Greenhouse gas emissions from industries and households

When  $CO_2$ , methane and nitrous oxide emissions are taken as a whole and assessed in relation to their global warming potential, in 1990 the industries contributed approximately 87 per cent of all Danish man-made emissions and in 2012 their share had increased to 91 per cent, with households making up the remaining emissions. *Agriculture, fishing and* quarrying contributed 13 per cent of the global warming potential. It is largely due to emissions of methane and nitrous oxide from agriculture, while emissions of  $CO_2$  played a minor role.



#### Figure 5 Greenhouse gas emissions from industries and households. 2012

Note: Emissions are calculated as CO2-equivalents (GWP).

In 2012, *utility services* contributed 18 per cent of the global warming potential from greenhouse gases. This includes all Danish production of electricity and district heating. All emissions in connection with production of electricity and district heating come from this industry, while the use of electricity and district heating in the industries and households cause no direct emissions.

*Trade and transport* caused 48 per cent of the global warming potential from  $CO_2$ , methane and nitrous oxide. Included are all emissions from businesses that carry out transport as a service to other businesses and households both in Denmark and abroad. On the other hand, it does not include transport activities carried out by businesses and households on their own behalf, using their own cars and lorries, etc.

#### **Environmental related taxes**

Denmark's environmental policy involves an increasing use of environmental taxes or more precise environmentally related taxes. Environmental taxes comprise of pollution, energy, resource and transport related taxes.

In 2013, the total revenue generated from these taxes was DKK 79.2 billion, corresponding to around 8.8 per cent of total revenues for taxes and duties.

Total revenue generated from energy related taxes amounted to DKK 45.9 billion DKK in 2013, corresponding to 58 per cent of total revenue from environmental related taxes. In 2013, transport related taxes accounted for 36 per cent of environmental related taxes while resource related taxes accounted for 2.2 per cent and pollution taxes accounted for 4.0 per cent.

#### Figure 6 Environmental taxes



www.statbank.dk/mreg21

## Energy

#### Denmark self-sufficient in energy

Since 1998, Denmark has been energy self-sufficient due to the extraction of crude oil and natural gas from the North Sea and the production of renewable energy. The total production has increased until 2005.

In 2006 there was a significant decrease in the production of energy, primarily due to a decrease in the production of oil and natural gas. The decrease has continued in the years after, but still, in 2013, the production of energy was at the same level as the total consumption of energy in Denmark.

#### Changed composition of the energy consumption

Gross energy consumption consists of oil, natural gas, coal and renewable energy etc. When calculating gross energy consumption, adjustments are made to take into account imports and exports of electricity. Total gross energy consumption was largely unchanged from 2012 to 2013.



www.statbank.dk/ene3h

Since the 90s the composition of energy types have changed significantly. Generally there has been an increase in the consumption of natural gas and renewable energy, while the use of coal has decreased.

## More renewable energy sources

The consumption of renewable energy has increased over a number of years and now accounts for 27 per cent of the total gross energy consumption. Renewable energy plays a particularly important part with regard to environmental issues like emissions of greenhouse gases and global warming, as an increase in the use of such energy causes a reduction in greenhouse gas emissions by replacing the use of fossil fuels, e.g. coal and oil.

Renewable energy sources include the non-polluting types of energy, e.g. wind power and solar power as well as carbon-dioxide neutral fuels, e.g. hay and wood, which absorb carbon dioxide from the atmosphere during growth, and subsequently releases it again when they are incinerated.

Table 404	Area, popula	tion and coas	tline			
	Land and inland water area km <sup>2</sup>	Population 1 January 2014	Density of population per km <sup>2</sup>	Number of islands	Inland water area 1959 km <sup>2</sup>	Coastline 1959 km
All Denmark	42 923,5	5 659 715	131.9	<b>392</b> <sup>1</sup>	700	7 314
Provinces						
Byen København	179,3	739 977	4 127.3	13	18	213
Københavns omegn	342,2	535 355	1 564.3	1		
Nordsjælland	1 449,1	452 874	312.5	22	80	248
Bornholm <sup>2</sup>	588,4	39 919	67.8	5	3	141
Østsjælland	807,7	241 870	299.5	15	7	154
Vest- og Sydsjælland	6 415,5	578 610	90.2	102	102	1 707
Fyn	3 478,6	488 578	140.5	96	26	1 130
Sydjylland	8 777,5	717 150	81.7	23		3
Østjylland	5 841,5	857 030	146.7	49		
Vestjylland	7 164,7	425 720	59.4	25		
Nordjylland	7 879,2	582 632	73.9	39		
Regions						
Hovedstaden	2 559,0	1 768 125	691.0	41	101	602
Sjælland	7 223,1	820 480	113.6	117	109	1 861
Syddanmark	12 256,1	1 205 728	98.4	119		
Midtjylland	13 006,2	1 282 750	98.6	74		
Nordjylland	7 879,1	582 632	73.9	39		
Faroe Islands	1 396,0	<b>48 679</b> <sup>4</sup>	34.9	17 <sup>5</sup>		<b>1 117</b> <sup>6</sup>
Greenland	<b>410 449,0</b> <sup>7</sup>	55 984	0.1			44 087

Note: The most southern point in Denmark is Gedserodde on Falster, the most northerly point is near Skagen, the most westerly point is Blåvandshuk, and the most easterly point is Christiansø (Østerskær).

<sup>1</sup> Incl. Zealand and Jutland peninsula. <sup>2</sup> Incl. Christiansø. <sup>3</sup> The border with Germany was measured as 67.7 km. In length. <sup>4</sup> 1 December 2014. <sup>5</sup> 1 January 2013. <sup>6</sup> Measured in 1955. <sup>7</sup> Only the part of Greenland free of ice is included. The total area of Greenland is 2,166,086 km<sup>2</sup>, of which 81 per cent is covered by inland ice.

Source: Danish Geodata Agency

www.statbank.dk/folk1 and are207

Table 405	Administrative divisi	on of Denmar	k. 2015		
	Municipalities	Parishes	Customs and	Constituen	cies <sup>1</sup>
			tax regions	Counties and large constituencies	Constituencies
Total	98	2 174	35	10	92
The Islands	56	893	17	6	48
Jutland	42	1 281	18	4	44
<b>Region Hovedstaden</b> Byen København Københavns omegn Nordsjælland Bornholm	<b>42</b> 4 13 11 1	<b>241</b> 72 56 91 22	7 2 1 3 1	<b>4</b> 1 1 1 1	<b>28</b> 12 8 6 2
<b>Region Sjælland</b> Østsjælland Vest- og Sydsjælland	<b>17</b> 5 12	<b>420</b> 60 360	<b>6</b> 2 4	1 } 1	<b>12</b> 3 9
<b>Region Syddanmark</b> Fyn Sydjylland	<b>22</b> 10 12	<b>521</b> 232 289	<b>9</b> 4 5	<b>2</b> 1 1	<b>21</b> 8 13
<b>Region Midtjylland</b> Østjylland Vestjylland	<b>19</b> 11 8	<b>636</b> 353 283	<b>9</b> 5 4	<b>2</b> 1 1	<b>22</b> 11 11
Region Nordjylland	11	356	4	1	9

<sup>1</sup> In accordance with Act no. 1292 of 8 December 2006 on elections to the Danish Parliament.

www.statbank.dk/02

Tab	le 406 Ar	rea and pop	ulation on	islands			
Muni- cipa- lity code		Population 1 January 2015	Area in km²	Muni- cipa- lity code		Population 1 January 2015	Area in km²
	All Denmark	5 659 715	43 059.62		Funen and its islands	488 578	3 489.80
				430	Avernakø	127	5.74
000	Zealand and its islands	2 444 833	7 473.16	492	Birkholm	11	0.91
330	Agersø	163	8.08	430	Bjørnø	32	1.48
Flere 390	Amager	188 762 1 097	96.28 14.40	420 479	Bågø Drejø	25 63	6.19 4.28
370	Bogø Enø	363	3.53	479	Frederiksø	1	4.20
250	Eskilsø	6	1.40	Flere	Fyn	459 635	2 988.62
390	Farø	5		410	Fænø	+00 000	3.90
370	Gavnø	35	5.65	479	Hjortø	8	0.91
330	Glænø	49	5.26	482	Langeland	12 432	283.54
190	Klaus Nars holm	2	0.00	430	Lyø	95	6.21
390	Langø	2	1.32	482	Siø	16	1.43
390	Masnedø	183	1.71	479	Skarø	28	1.96
390	Møn	9 435	218.31	482	Strynø	199	4.92
326	Nekselø	18	2.23	479	Thurø	3 535	7.58
390	Nyord	38	5.57	440	Tornø	4	0.24
330	Omø	160	4.45	479	Tåsinge	6 100	69.99
316	Orø	848	15.03	492	Ærø	6 265	87.51
185	Saltholm	2	16.72		78 named and uninhabitated islands	•	14.30
326	Sejerø	353	12.50		lettend and the talanda	0 500 500	00 740 00
Flere	Sjælland	2 243 297	7 049.27	770	Jutland and its islands	2 582 532	29 710.03
101 101	Slotsholmen Trekroner	14 1	0.21 0.02	773 727	Agerø Alrø	28 160	3.49 7.70
101	83 named and uninhabitated islands	•	11.21	540	Allo	50 154	311.39
		•	11.21	707	Anholt	146	21.75
	Lolland-Falster and their islands	103 853	1 796.96	580	Barsø	23	2.66
360	Askø	39	2.80	851	Egholm	41	6.06
376	Falster	42 328	513.99	615	Endelave	164	13.23
360	Fejø	460	17.04	563	Fanø	3 263	59.60
360	Femø	119	11.40	779	Fur	788	21.95
360	Lilleø	7	0.84	813	Hirsholm	2	0.17
Flere	Lolland	60 896	1 244.97	766	Hjarnø	104	3.23
360	Vejrø	4	1.60	671	Jegindø	439	7.77
	43 named and uninhabitated islands	•	4.33	Flere	Jyske halvø	2 203 071	23 861.05
				580	Kalvø	12	0.19
	Bornholm and its islands	39 919	589.68	820	Livø	9	3.32
400	Bornholm	39 828	589.32	825	Læsø	1 795	112.86
411	Christiansø og Frederiksø	91	0.26	561	Mandø	40	8.54
	3 named and uninhabitated islands	•	0.10	773 550	Mors Rømø	20 788	360.46 86.56
				550 741	Samsø	594 3 733	112.26
				580	Store Okseø	5 7 5 5	0.08
				727	Tunø	111	3.56
				Flere	Vendsyssel-Thy	296 697	4 674.24
				671	Venø	200 007	6.35
				615	Vorsø	1	0.59
				510	Årø	160	5.88
							15.11

Note.: The area is based on map10 of the Danish Geodata Agency and Cadastre. In relation to the area in table 405, non-registered areas are also included here, e.g. lakes and roads.

www.statbank.dk/bef4 and are207

<sup>1</sup> Incl. Lindø. <sup>2</sup> Incl. Skalø. <sup>3</sup> Not included in the division of municipalities, administered by the Ministry of Defence.

Source: National Environmental Research Institute

www.dmu.dk

Table 407	Land cover		
		Km <sup>2</sup>	Per cent
Total area		43 560.76	100.00
Artificial surfaces		4 246.46	9.75
Urban fabric, industrial and	commercial units <sup>1</sup>	3 154.63	7.24
Motorway		43.96	0.10
Expressway		9.10	0.02
Road broader than 6 metres	;	269.02	0.62
Road 3 – 6 metres		551.58	1.27
Railway		58.22	0.13
Bridge Embankment		0.02 2.64	0.00 0.01
Runway		2.64 3.31	0.01
Mineral extraction sites		19.94	0.05
Technical sites		17.46	0.03
Cemeteries		6.96	0.02
Sport facilities		52.18	0.12
Leisure facilities		57.44	0.13
Agricultural areas		28 897.85	66.34
Arable land		28 615.01	65.69
Market garden		33.87	0.08
Pastures		155.18	0.36
Pastures in urban areas		93.72	0.22
Land principally occupied by	agriculture, with significant areas of natural vegetation	0.07	0.00
Forests and semi-natural	areas	6 788.32	15.58
Forest		1 829.48	4.20
Broad-leaved forest		1 309.40	3.01
Coniferous forest		2 147.34	4.93
Mixed forest		7.98	0.02
Natural grassland		391.92 981.76	0.90 2.25
Moors and heath land Beaches, dunes and sand p	laine	51.21	0.12
Sparsely vegetated areas	lains	69.23	0.12
		2 274.89	
Wetlands Meadows		<b>2 274.89</b> 808.89	<b>5.22</b> 1.86
Inland wetlands		205.66	0.47
Peat bogs		875.60	2.01
Salt marshes		384.74	0.88
Water bodies		670.59	1.54
Lakes		616.49	1.42
Stream width 8-12 metres		49.42	0.11
Reeds		0.34	0.00
Fish farms		4.34	0.01
Unclassified		682.65	1.57
		002.00	

Note: The figures are based on different primary data covering the period from the end of the 1980s to the middle of the 1990s. Due to different compilation methods figures deviate from figures in table 1. The Primary data are the *land use map; Area Information System* (The Ministry of Environment). Further information can be obtained from: www.dmu.dk. The figures are a revision (not an update) of the collected data. The National Environmental Research Institute conducted the revision in 2001. The classification is based on the three-digit *CORINE land cover nomenclature,* as a fourth number is added for national purposes.

<sup>1</sup> Include city centres, human locality areas with low buildings, human locality areas with high buildings, built-up areas in rural areas and industrial areas. Roads are excluded.

Table 408	Denr	nark's 15 largest lakes			
Lake's name	Province	2012	Lake's name	Province	2012
		km <sup>2</sup>			km <sup>2</sup>
Arresø	Nordsjælland	39.7	Søndersø	Vest- og Sydsjælland	8.0
Esrum sø	Nordsjælland	17.4	Tystrup sø	Vest- og Sydsjælland	6.7
Mossø	Østjylland	16.5	Tømmerby Fjord	Nordjylland	5.7
Stadil Fjord <sup>1</sup>	Vestjylland	16.2	Julsø	Østjylland	5.6
Saltbæk Vig <sup>1</sup>	Vest- og Sydsjælland	15.9	Ulvedybet	Nordjylland	5.5
Tissø	Vest- og Sydsjælland	12.5	Tange sø	Østjylland	5.4
Furesø	Nordsjælland	9.4	Lund Fjord	Nordjylland	5.1
Skanderborg sø	Østjylland	8.5	·		

<sup>1</sup> Area of brackish water.

Source: Danish Geodata Agency www.gst.dk

Table 409	Ν	<b>Neteor</b>	ologica	al conc	litions								
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Mean temperature Normal (1961-1990) 2014	0.0 1.8	0.0 4.2	2.1 5.8	5.7 8.7	10.8 11.7	14.3 14.9	— ∘C — 15.6 19.5	15.7 16.0	12.7 14.6	9.1 12.1	4.7 7.5	1.6 3.3	7.7 10.0
Average daily temperature Normal (1961-1990) 2014	2.0 3.1	2.2 6.4	4.9 9.5	9.6 12.8	15.0 15.8	18.7 19.6	19.8 24.3	20.0 20.1	16.4 18.4	12.1 14.5	7.0 9.1	3.7 5.3	10.9 13.3
<b>Average nightly temperature</b> Normal (1961-1990) 2014	-2.9 0.3	-2.8 2.1	-0.8 2.6	2.1 4.8	6.5 7.6	9.9 10.0	11.5 14.4	11.3 12.2	9.1 11.0	6.1 9.3	2.3 5.8	-0.7 0.9	4.3 6.8
<b>Maximum temperature</b> 1874-2014 Temp. Measured during the years 2014	12.4 <b>2005</b> 10.4	15.8 <b>1990</b> 13.1	22.2 <b>1990</b> 18.7	28.6 <b>1993</b> 22.0	32.8 <b>1892</b> 27.1	35.5 <b>1947</b> 28.1	35.3 <b>1941</b> 30.9	36.4 <b>1975</b> 31.7	32.3 <b>1906</b> 25.1	26.9 <b>2011</b> 20.4	18.5 <b>1968</b> 16.6	14.5 <b>1953</b> 11.3	36.4 <b>1975</b> 31.7
<b>Minimum temperature</b> 1874-2014 Temp. Measured during the years 2014	-31.2 <b>1982</b> -10.5	-29.0 <b>1942</b> -4.3	-27.0 <b>1888</b> -4.7	-19.0 <b>1922</b> -3.7	-8.0 <b>1900</b> -2.7	-3.5 <b>1936</b> 2.3	-0.9 <b>1903</b> 5.2	-2.0 <b>1885</b> 3.7	-5.6 <b>1886</b> -0.2	-11.9 <b>1880</b> -1.2	-21.3 <b>1973</b> -4.1	-25.6 <b>1981</b> -15.3	-31.2 <b>1982</b> -15.3
<b>Degree-days</b> Normal (1961-1990) 2014	522 472	491 360	461 347	337 248	198 167	d 84 68	egree-days 43 10	47 56	128 73	243 152	361 286	469 426	3 382 2 664
Precipitation Normal (1961-1990) 2014	57 77	38 55	46 27	41 37	48 65	55 40	— mm. — 66 54	67 125	73 54	76 114	79 52	66 118	712 818
Bright sunshine, all DK Normal (1961-1990) 2014	43 17	69 70	110 151	162 198	209 216	209 270	– hours — 196 277	186 188	128 171	87 81	54 41	43 46	1 495 1 727
Summer days (max. >25°) Normal (1961-1990) 2014	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.2 0.3	1.9 0.6	– days — 2.6 15.5	2.3 2.3	0.1 0.0	0.0 0.0	0.0 0.0	0.0 0.0	7.2 18.8
<b>Frost days (min. &lt;0°)</b> Normal (1961-1990) 2014	19.0 13.0	19.0 2.6	15.0 4.0	6.6 0.8	0.7 0.3	< 0.0	0.0 0.0	0.0 0.0	0.2 0.0	1.8 0.0	7.3 1.3	15.0 8.4	84.0 30.9
<b>Ice days (max. &lt;0°)</b> Normal (1961-1990) 2014	8.6 8.5	7.5 0.0	2.2 0.0	0.1 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.6 0.0	4.0 1.0	23.0 9.5
Precipitation days (R <sup>3</sup> 0.1 mm.) Normal (1961-1990) 2014	17.0 23.4	13.0 19.3	14 15.2	12.0 14.3	12.0 13.8	12.0 13.3	13.0 13.3	13.0 25.5	15.0 17.1	16.0 24.4	18.0 18.9	17.0 25.0	171.0 224.0
<b>Days with snow cover</b> Normal (1961-1990) 2014	12.0 8.0	9.3 1.8	4.6 0.0	0.7 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	< 0.0	1.3 0.0	5.1 3.3	33.0 13.1

Note 1: *Degree days* are used as a measurement for heating needs in the heating season (1 September - 31 May).Degree days are shade-temperature days.

Note 2: < means less than 0.1, but greater than 0.0.

Source: Danmarks Meteorologiske Institut

www.dmi.dk

Table 410	Infrastructure for transport		
	1 January	2013	2014
		km	
	<b>Road network, total</b> Of which motorways State roads Municipality roads	<b>74 109</b> 1 195 3 791 70 276	<b>74 407</b> 1 216 3 796 70 568
	<b>Railway network, total</b> Of which Copenhagen Metro Of which private railways	<b>2 636</b> 21 520 	<b>2 636</b> 21 520
	Stations and halts Sea ports Airports	528 112 23	528 111 23

www.statbank.dk/vej11, bane41 and skib101

Table 411	Infrastructure for transport, expenditure					
		2012	2013			
		DKK mio				
	<b>Road network</b> Construction expenditure Operation and maintenance	<b>16 884</b> 9 853 7 031	<b>14 670</b> 7 808 6 862			
	<b>State railway network</b> New investments Reinvestments Other investments	<b>4 380</b> 2 513 1 839 28	<b>4 211</b> 2 845 1 334 32			
	Private railways	0	0			
	<b>Sea ports</b> Constructions Buildings	<b>483</b> 367 116	···· ····			
	Airports	234				
	Great Belt Link	64	44			
	Øresund Link	41	4			
	Copenhagen Metro	2 332	3 170			

www.statbank.dk/vej2, bane42, flyv2 and skib2

Table 412 Greenho	ouse gas emis	sions from	the Danish e	economy		
	1990	2000	2010	2011	2012	Share 2012
1 000 tonnes CO₂ equivalents		1 000 ton	nes CO2 equivalent	s		Per cent
Industries, total	70 236	79 487	89 814	88 606	82 176	91,0
Agriculture, forestry, fishing	15 267	13 075	11 939	12 050	11 913	13,2
Mining and quarrying	1 156	2 536	2 069	1 874	1 844	2,0
Manufacturing	8 416	9 055	5 770	6 059	5 887	6,5
Utility services	26 593	26 011	23 371	19 320	15 901	17,6
Construction	911	1 150	1 613	1 737	1 461	1,6
Trade and transport etc.	16 312	26 277	43 410	45 947	43 604	48,3
Information and communication	152	129	111	104	97	0,1
Financial and insurance	88	55	65	71	63	0,1
Real estate;rent.of non-res.b.	44	71	99	83	92	0,1
Dwellings	50	21	31	27	37	0,0
Other business services	255	294	429	417	386	0,4
Public adm., education, health	833	645	737	773	747	0,8
Arts, entertainm. oth.service	162	169	168	144	144	0,2
Households	10 574	10 415	9 385	8 622	8 137	9,0
Greenhouse gas emissions from the Danish						
economy Of which	80 810	89 902	99 198	97 228	90 313	100,0
Danish operated ships' bunkering abroad	9 358	19 448	34 821	37 832	35 784	
Danish operated planes' bunkering abroad	275	520	1 220	1 101	1 119	
Danish operated vehicles' bunkering abroad	•	•	1 823	1 967	1 931	
Total industries, excl. bunkering abroad	71 177	69 934	61 334	56 328	51 479	
Emissions from biomass	4 662	6 899	14 951	14 579	15 156	

Table 413	Extraction of raw materials			
	1990	1995	2000	2013
		m³ in thousands _		
Extraction of raw materials, total	33 976	34 210	40 945	32 137
Extraction from land area:	28 106	28 558	33 809	25 683
Sand, gravel and stone	22 534	21 721	27 587	20 395
Quartz sand	186	191	479	244
Granite	811	662	199	146
Clay	462	739	788	337
Expanded clay	303	311	313	225
Moler	195	186	227	205
Chalk, limestone	2 924	4 049	3 405	2 571
Peat	399	259	247	154
Other raw materials	292	440	563	1 406
Extraction from sea area				
Sand, gravel, sand for land filling etc.	5 870	5 652	7 136	6 454

Source: National Forest and Nature Agency

www.statbank.dk/rst01 and rst3

Table 414	Link between total Danish CO2-emissions and the Kyoto-protocol				
		1990	2012		
		mio. tonnes			
Total CO2 emissions from the	Danish economy (Environmental Accounts)	69.5	93.3		
- Biomasse as fuel		4.7	15.2		
- Danish CO2 emissions abroad		9.4	38.1		
Ships		9.2	35.1		
Planes		0.3	1.1		
Vehicles		•	1.9		
- Other differences related to tra	nsports and cross border trade	2.5	0.6		
= Total emissions accounted	for in the Kyoto Protocol	52.9	39.4		

Table 415

Sales of pesticides

	2012	2013*
	tonnes	
Sales of pesticide products <sup>1</sup>		
Total sale	16 478	13 626
Herbicides	9 588	7 329
Fungicides	2 338	2 633
Algicides	68	19
Insecticides	1 473	1 393
Slimicides for use in paper pulp	-	0
Products against pests on farm animals	46	94
Plant growth regulators	623	468
Combined fungicides and insecticides	12	14
Soil disinfectants	7	5
Rodenticides	717	410
Repellents	9	15
Products for the protection of woodwork	1 597	1 246
Of which active ingredients <sup>2</sup>		
Active ingredients, total	5 900	4 323
Herbicides	4 462	2 937
Fungicides	823	881
Algicides	13	4
Insecticides	78	80
Slimicides for use in paper pulp	-	0
Products against pests on farm animals	2	2
Plant growth regulators	399	289
Combined fungicides and insecticides	2	5
Soil disinfectants	7	5
Rodenticides	5	7
Repellents	3	3
Products for the protection of woodwork	108	110

<sup>1</sup> A pesticide product comprises one or more effective substances, emulators, adhesives and inactive fillers.

<sup>2</sup> That part of the product which has a toxic effect.

Source: Danish Environmental Protection Agency www.statbank.dk/pest2

Statistical Yearbook 2015

Crude oil and semi- manufac- tured oil       Coal, coke, products       Natural products       Other gas       Renewable energy resources <sup>2</sup> Electricity energy resources <sup>2</sup> Production       9.995       -       8.488       4.695       5.323       161.888       37.002         Imports       4.600       4.804       16.860       1.292       9.933       47.869       11.459         Total supply       14.354       4.804       25.348       5.988       6.286       20.97.47       48.461         Exports       6.016       85       6.510       -       2.29       4.350       14.237         Changes in inventories       -       -       -       97       4       12.91       9.99         Total industrises       8.389       5.531       16.915       5.891       3.33       2205       142.210       2.23       3.03       10.210       2.23       3.03       10.210       14.23       2.051       14.0210       2.23       3.03       2.021       14.23       3.03       14.210       2.305       14.295       5.315       167       5.290       2.215       11.64       4.22       2.	e 416 Energy	account	for Denm	ark. 2013	)				
manufac- tured oil       etc.       resources <sup>2</sup> Production       9 995       -       8 488       4 695       5 323       161 888       37 002         Imports       4 360       4 804       1292       963       47 859       11 459         Total supply       14 354       4 804       25 348       5 988       208 747       48 461         Exports       6 016       85       6 510       -       2 129       183       -       12       1 919         Distribution losses etc.       -       -       -       9       4       1 2 305       1 9 945         Total industrises       8 389       5 532       16 915       5 981       3 933       205 195       3 23 205         Households       -       -       -       9       4       1 2 1 919         Total industrises       8 389       5 531       14 799       3 216       622 10       2 23 63         Mining and quarrying       -       4       22       601       17       443       103         Maurfacturing       8 389       151       998       2223			,					Electricity	Distri
tured oil       mio.       Inbusand       TJ       GWh         Production       9 995       -       8 488       4 695       5 323       161 888       37 002         Imports       4 360       4 804       16 860       1 292       963       47 859       11 459         Total supply       14 354       4 804       25 348       5 988       6 209 747       48 461         Exports       6 016       85       6 510       -       2120       4 350       14 237         Changes in inventories       - 51       - 813       1 923       -       229       189       -         Total industries and households       8 389       5 531       14 799       5891       3 216       162 210       22 363         Agriculture, forestry and fishing       -       1       2116       -       7       1 433       103         Mining and quarying       -       4       22       601       17       1 433       103         Mining and quarying       -       1       245       5 900       2 215       116 18       649         Water supply, severage and				products	gas	gas			heatin
Image: Housand tonnes       mio.       thousand tonnes       TJ       GWh         Production       9 995       -       8 488       4 695       5 323       161 888       37 002         Total supply       14 354       4 804       16 860       1292       963       47 859       14 459         Exports       6 016       85       6 510       -       2 120       4 350       14 237         Changes in inventories       - 51       - 813       1 923       -       229       189       -         Distribution losses etc.       -       -       -       97       4       12       1 919         Total industries and households       8 389       5 531       1 492       -       38       2563       1 833         Adjriculture, forestry and fishing       -       61       492       -       38       2 561       1 393       1 61       1 432       1 123       1 103         Mainifac turing       8 389       151       98       606       9 615       7 934       1 2525       1 16 188       649         Valer suply, services       -       5 315			etc.				resources <sup>2</sup>		
Production       9 995       -       8 488       4 695       5 323       161 888       37 002         Imports       4 360       4 804       16 860       1292       963       47 859       11 459         Total supply       14 334       4 804       25 348       5 988       6 286       209 747       48 461         Exports       6 016       85       6 510       -       2120       4 350       14 237         Changes in inventories       - 51       - 813       1923       -       229       189       -         Distribution losses etc.       -       -       -       -       7       4       12       37 002         Total industries and households       8 389       5 532       16 915       5 891       333       205 195       32 305         Households       -       1       2 116       -       718       42 985       9 942         Total industries and households       8 389       5 531       14 799       5 891       3 216       162 210       22 363         Agriculture, forestry and fishing       -       4       22       661 </td <td></td> <td>tured oil</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		tured oil							
Production     9 995     -     8 488     4 695     5 323     161 888     37 002       Imports     4 360     4 804     16 860     1292     963     47 859     11 459       Changes in inventories     - 6 106     85     6 510     - 2 120     4 350     14 237       Changes in inventories     - 5 1     - 813     1923     - 2 29     189     -       Distribution losses etc.     97     4     12     1919     -     2120     4 330     295 99     32 305       Total industries and households     8 389     5 531     14 799     5 891     3 216     162 210     22 383       Agriculture, forestry and fishing     - 61     4 92     - 38     2 560     1993     103       Mining and quarrying     - 4     42     601     17     143     103       Manufacturing     8 389     151     998     - 696     9 651     7 934       Utility services     - 5315     167     5 290     2 223     143 245     1 525       Electricity, gas, steam and air conditioning supply     5 315     126     5 290 <td></td> <td></td> <td>- thousand tonr</td> <td>nes</td> <td></td> <td></td> <td>TJ</td> <td>GWh</td> <td>Т</td>			- thousand tonr	nes			TJ	GWh	Т
Imports     4 360     4 804     16 860     1 292     963     47 859     11 459       Total supply     14 354     4 804     25 348     5 988     6 286     209 747     48 461       Exports     6 016     85     6 510     -     2120     4 350     14 237       Changes in inventories     - 51     - 813     1923     -     229     189     -       Distribution losses etc.     -     -     -     97     4     12     1919       Total industries and households     8 389     5532     16 915     5 891     3 932     205 195     3 2305       Households     -     1     2 116     -     718     4 2965     9 942       Total industries     8 389     5 531     14 799     5 891     3 216     162 210     22 363       Manufacturing     8 389     5 535     167     5 290     2 223     143 245     1 525       Electricity, gas, steam and air conditioning supply     -     5 315     167     5 290     2 215     116 488     664       Water suppy, swerage and waste management									
Teta supply     14 354     4 804     25 348     5 988     6 282     209 747     48 461       Exports     6 016     85     6 510     -     2 120     4 350     14 237       Changes in inventories     -51     - 813     1923     -     229     189     -       Distribution losses etc.     -     -     -     97     4     12     1919       Total industries and households     8 389     5 532     16 915     5 891     3 216     162 210     22 305       Total industries     8 389     5 531     14 799     5 891     3 216     162 210     22 305       Mining and quarrying     -     4     22     601     17     1 433     103       Manufacturing     8 389     151     998     -     666     9 651     7 934       Utility services     -     5 315     125     5 290     2 215     116 188     649       Construction     -     -     12 435     87     87     822     5 514       Wholesale and retail trade     -     -     12 435     87 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>133 88</td>			-						133 88
Exports     6 016     85     6 510     -     2 120     4 350     14 237       Changes in inventories     -     51     - 813     1 923     -     229     189     -       Distribution losses etc.     -     -     97     4     12     1 919       Total industries and households     8 389     5 532     16 815     5 891     3 933     205 195     32 305       Households     -     1     2 116     -     718     42 985     9 942       Total industries     8 389     5 531     14 779     5 891     3216     162 210     22 23 63       Manufacturing     8 389     151     998     -     666     9651     7 934       Utility services     -     5 315     167     5 290     2 215     116 188     649       Vater supply, severage and waste management     -     -     42     -     8     27 057     876       Construction     -     12 135     5 290     2 215     116 188     649       Vater supply, severage and vaste management     -     -     12 178									
Changes in inventories     - 51     - 813     1 923     -     229     189     -       Distribution losses etc.     -     -     -     -     97     4     12     1919       Total industries and households     8 389     5 532     16 915     5 891     3 233     205 195     39 342       Total industries     8 389     5 531     14 799     5 881     3 216     16 22 10     22 363       Agriculture, forestry and fishing     -     61     492     -     38     2 560     1 893       Mining and quarrying     -     4     22     601     17     1 433     103       Manufacturing     8 389     151     998     -     696     9 661     7 934       Uility services     -     5 315     125     5 290     2 215     116 188     649       Water supply, sewerage and waste management     -     -     42     -     8     27 057     876       Construction     -     12 435     -     87     2 822     5 514       Wholesale and retail trade     -     -     1									133 88
Distribution losses etc.     -     -     -     97     4     12     1919       Total industries and households     8 389     5 532     16 915     5 881     3 933     205 195     32 305       Households     -     1     2 116     -     718     42 985     9 942       Total industries     8 389     5 531     14 799     5 891     3 216     162 210     22 363       Agriculture, forestry and fishing     -     61     492     -     38     2560     1893       Mining and quarrying     -     4     22     601     17     1433     103       Manufacturing     8 389     151     998     -     696     9 651     7 934       Utility services     -     5 315     167     5 290     2 213     143 245     1525       Electricity, gas, steam and air conditioning supply     -     5 315     125     5 290     2 215     16 188     649       Water supply, sewerage and waste management     -     -     12 435     87     28 25     514       Construction     -     -								14 237	
Total industries and households     8 389     5 532     16 915     5 891     3 933     205 195     32 305       Households     -     1     2 116     -     718     42 995     9942       Agriculture, forestry and fishing     61     492     -     38     2 560     1893       Manufacturing     8 389     151     998     -     66     9 651     7 934       Manufacturing     8 389     151     998     -     696     9 651     7 934       Utility services     -     5 315     167     5 290     2 223     143 245     1 525       Electricity, gas, steam and air conditioning supply     -     5 315     125     5 290     2 215     116 188     649       Water supply, sewerage and waste management     -     -     42     -     8     27 057     876       Construction     -     12 435     -     87     2 822     5 5 14       Wholesale and retail trade     -     -     12 478     -     5 2 124     1 253       Information and communication     -     -     11     - <td></td> <td>- 51</td> <td>- 813</td> <td>1 923</td> <td></td> <td></td> <td></td> <td>-</td> <td>00.05</td>		- 51	- 813	1 923				-	00.05
Households     -     1     2 116     -     718     42 985     9 942       Total industries     8 389     5 531     14 799     5 891     3 216     162 210     22 363       Agriculture, forestry and fishing     -     61     492     -     38     2 560     1 893       Mining and quarrying     -     4     22     601     17     1 433     103       Manufacturing     8 389     151     998     -     666     9 651     7 934       Utility services     -     5 315     125     5 290     2215     116 188     649       Water supply, sewerage and waste management     -     -     42     -     8     27 057     876       Construction     -     12 435     -     87     282     5 514       Wholesale and retail trade     -     12 478     -     5     212     5 141       Kocommodation and food service activities     -     11     -     23     32     855       Information and communication     -     17     -     11     43     1120		-		-					26 65
Total industries     8 389     5 531     14 799     5 891     3 216     162 210     22 363       Agriculture, forestry and fishing     -     61     492     -     38     2 560     1 893       Mining and quarrying     -     4     22     601     17     1 433     103       Manufacturing     8 389     151     998     -     696     9 651     7 934       Utility services     -     5 315     167     5 290     2 215     116 188     649       Water supply, sewerage and waste management     -     -     42     -     8     27 057     876       Construction     -     12 435     -     87     2 822     5 514       Wholesale and retail trade     -     -     12 478     -     5     2 124     1 253       Accommodation and food service activities     -     -     11     -     23     32     855       Information and communication     -     -     11     -     23     32     855       Real estate activities and renting of non-residential buildings     -     -		8 389			5 891				107 22
Agriculture, forestry and fishing     -     61     492     -     38     2 560     1 893       Mining and quarrying     -     4     22     601     17     1 433     103       Manufacturing     8 389     151     998     -     666     9 651     7 934       Utility services     -     5 315     167     5 290     2 223     143 245     1525       Electricity, gas, steam and air conditioning supply     -     5 315     125     5 290     2 215     116 188     649       Water supply, severage and waste management     -     -     42     -     8     27 057     876       Construction     -     12 435     -     87     2 822     5 514       Wholesale and retail trade     -     -     12 178     -     5     2 124     1 253       Accommodation and food service activities     -     11     -     23     32     855       Information and communication     -     17     -     11     43     120       Financial and insurance     -     8     -     3     25 <td></td> <td>-</td> <td></td> <td></td> <td>- - 004</td> <td></td> <td></td> <td></td> <td>68 69</td>		-			- - 004				68 69
Mining and quarrying     -     4     22     601     17     1 433     103       Manufacturing     8 389     151     998     -     696     9 651     7 934       Utility services     -     5 315     167     5 290     2 223     143 245     1 525       Electricity, gas, steam and air conditioning supply     -     5 315     125     5 290     2 215     116 188     649       Water supply, sewerage and waste management     -     -     42     -     8     27 057     876       Construction     -     12 435     -     87     2 822     514       Wholesale and retail trade     -     -     12 178     -     5     2 124     1 253       Accommodation and food service activities     -     -     12 178     -     5     2 124     1 253       Information and communication     -     -     17     -     11     43     1 20       Financial and insurance     -     0     3     25     8     0     0     372     8       Other business services     - <th< td=""><td></td><td>8 389</td><td></td><td></td><td>2 891</td><td></td><td></td><td></td><td>38 53 1 58</td></th<>		8 389			2 891				38 53 1 58
Manufacturing     8 389     151     998     -     696     9 651     7 934       Utility services     -     5 315     167     5 290     2 223     143 245     1 525       Electricity, gas, steam and air conditioning supply     -     5 315     125     5 290     2 215     116 188     649       Water supply, sewerage and waste management     -     -     42     -     8     27 057     876       Construction     -     -     340     -     14     733     361       Transportation     -     -     12 435     -     87     2 822     514       Wholesale and retail trade     -     -     12 178     -     5     2124     1253       Accommodation and food service activities     -     -     11     -     23     32     855       Information and communication     -     -     17     -     11     43     1120       Financial and insurance     -     -     87     -     20     -     3     64     166       Dwellings     -     -		-			-				2
Utility services     -     5 315     167     5 290     2 223     143 245     1 525       Electricity, gas, steam and air conditioning supply     -     5 315     125     5 290     2 215     116 188     649       Water supply, sewerage and waste management     -     -     42     -     8     27 057     876       Construction     -     340     -     14     733     361       Trade and transport etc.     -     12 435     -     87     2 822     5 514       Wholesale and retail trade     -     -     246     -     59     667     3 406       Transportation     -     -     12 178     -     5     2 124     1 253       Information and communication     -     -     11     -     23     32     855       Information and contunuication     -     -     14     -     6     33     203       Real estate activities and renting of non-     -     14     -     6     33     25     8       Other business services     -     -     87     -     24 <td></td> <td>• 200</td> <td></td> <td></td> <td>001</td> <td></td> <td></td> <td></td> <td>2 5 18</td>		• 200			001				2 5 18
Electricity, gas, steam and air conditioning supply     -     5 315     125     5 290     2 215     116 188     649       Water supply, sewerage and waste management     -     42     -     8     27 057     876       Construction     -     340     -     14     733     361       Trade and transport etc.     -     12 435     -     87     2 822     5 514       Wholesale and retail trade     -     -     246     -     59     667     3 406       Transportation     -     -     12 178     -     5     2 124     1 253       Accommodation and cod service activities     -     11     -     23     32     855       Information and communication     -     17     -     11     43     1 120       Financial and insurance     -     14     -     6     33     203       Real estate activities and renting of non-     -     87     -     24     262     503       Knowledge-based services     -     -     87     -     24     262     503       Knowledge-b		0 309			5 200				1 06
Water supply, sewerage and waste management     -     -     42     -     8     27 057     876       Construction     -     -     340     -     14     733     361       Trade and transport etc.     -     -     12 435     -     87     2 822     5 514       Wholesale and retail trade     -     -     246     -     59     667     3 406       Transportation     -     12 178     -     5     2 124     1 253       Accommodation and food service activities     -     11     -     23     32     855       Information and communication     -     17     11     43     1 120       Financial and insurance     -     14     6     33     203       Real estate activities and renting of non-     -     14     6     33     203       Real estate activities and renting of non-     -     87     24     262     503       Knowledge-based services     -     -     87     124     262     503       Knowledge-based services     -     53     11     162									100
Construction     -     -     340     -     14     733     361       Trade and transport etc.     -     -     12 435     -     87     2 822     5 514       Wholesale and retail trade     -     -     246     -     59     667     3 406       Transportation     -     -     12 178     -     5     2 124     1 253       Accommodation and food service activities     -     -     11     -     23     32     855       Information and communication     -     -     14     -     6     33     203       Real estate activities and renting of non-     -     14     -     6     33     203       Real estate activities and renting of non-     -     -     20     -     3     64     166       Dwellings     -     -     87     -     24     262     503       Chrowledge-based services     -     -     35     -     13     100     372       Travel agent, cleaning, ao. operational services     -     -     53     -     11     362 </td <td></td> <td>-</td> <td></td> <td></td> <td>5 2 90</td> <td></td> <td></td> <td></td> <td>1 06</td>		-			5 2 90				1 06
Trade and transport etc.     -     12 435     -     87     2 822     5 514       Wholesale and retail trade     -     -     246     -     59     667     3 406       Transportation     -     -     12 178     -     5     2 124     1 253       Accommodation and food service activities     -     -     11     -     23     32     855       Information and communication     -     -     17     -     11     43     1 120       Financial and insurance     -     -     14     -     6     33     203       Real estate activities and renting of non-residential buildings     -     -     20     -     3     64     166       Dwellings     -     -     87     -     24     262     503       Knowledge-based services     -     -     -     3     100     372       Travel agent, cleaning, ao. operational services     -     -     53     -     11     162     132       Public administration, education and health     -     -     167     -     75		-			-				100
Wholesale and retail trade     -     -     246     -     59     667     3 406       Transportation     -     12 178     -     5     2 124     1 253       Accommodation and food service activities     -     11     -     23     32     855       Information and communication     -     17     -     11     43     1 120       Financial and insurance     -     -     14     -     6     33     203       Real estate activities and renting of non-residential buildings     -     -     20     -     3     64     166       Dwellings     -     -     8     -     3     25     8       Other business services     -     -     87     -     24     262     503       Knowledge-based services     -     -     35     -     13     100     372       Travel agent, cleaning, ao. operational services     -     -     53     -     11     162     132       Public admidefense and compulsory social security     -     112     -     11     337     315 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11 58</td>									11 58
Transportation     -     -     12 178     -     5     2 124     1 253       Accommodation and food service activities     -     -     11     -     23     32     855       Information and communication     -     -     17     -     11     43     1 120       Financial and insurance     -     -     14     -     6     33     203       Real estate activities and renting of non-residential buildings     -     -     20     -     3     64     166       Dwellings     -     -     87     -     24     262     503       Other business services     -     -     35     -     13     100     372       Travel agent, cleaning, ao. operational services     -     -     53     -     11     162     132       Public administration, education and health     -     -     167     -     75     1248     2341       Public adm., defense and compulsory social security     -     -     112     -     11     337     315       Education     -     -     26 <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>7 82</td>		-			-				7 82
Accommodation and food service activities11-2332855Information and communication17-11431 120Financial and insurance14-633203Real estate activities and renting of non- residential buildings20-364166Dwellings8-3258Other business services87-24262503Knowledge-based services35-13100372Travel agent, cleaning, ao. operational services167-7512482341Public adm., defense and compulsory social security112-11337315Education26-27362869Human health and social work29-365491 156Arts, entertainment and recreation activities16-1546521Other service activitiesOf which: Bunkering abroad by Danish-operated		_			_				74
Information and communication17-11431 120Financial and insurance14-633203Real estate activities and renting of non- residential buildings20-364166Dwellings8-3258Other business services87-24262503Knowledge-based services35-13100372Travel agent, cleaning, ao. operational services53-11162132Public administration, education and health167-7512482341Public adm., defense and compulsory social security112-11337315Education26-27362869Human health and social work29-365491156Arts, entertainment and recreation activitiesOf which: Bunkering abroad by Danish-operated									3 02
Financial and insurance14-633203Real estate activities and renting of non- residential buildings20-364166Dwellings8-3258Other business services87-24262503Knowledge-based services35-13100372Travel agent, cleaning, ao. operational services53-11162132Public administration, education and health167-7512482341Public adm., defense and compulsory social security112-11337315Education26-27362869Human health and social work29-365491 156Arts, entertainment and other services16-446170Act. of households as empl. of domestic personnelOf which: Bunkering abroad by Danish-operated			_		_				1 54
Real estate activities and renting of non- residential buildings-20-364166Dwellings8-3258Other business services87-24262503Knowledge-based services35-13100372Travel agent, cleaning, ao. operational services53-11162132Public administration, education and health167-7512482341Public adm., defense and compulsory social security112-11337315Education26-27362869Human health and social work29-365491 156Arts, entertainment and other services16-1546521Other service activitiesAct. of households as empl. of domestic personnelOf which: Bunkering abroad by Danish-operated									85
residential buildings     -     -     20     -     3     64     166       Dwellings     -     -     8     -     3     25     8       Other business services     -     -     87     -     24     262     503       Knowledge-based services     -     -     35     -     13     100     372       Travel agent, cleaning, ao. operational services     -     -     53     -     11     162     132       Public administration, education and health     -     -     167     -     75     1248     2 341       Public adm., defense and compulsory social security     -     -     112     -     11     337     315       Education     -     -     26     -     27     362     869       Human health and social work     -     -     29     -     36     549     1 156       Arts, entertainment and recreation activities     -     -     33     19     92     691       Arts, entertainment and recreation activities     -     -     16     4     46		_	_	14	-	Ŭ	00	200	00
Dwellings     -     -     8     -     3     25     8       Other business services     -     -     87     -     24     262     503       Knowledge-based services     -     -     35     -     13     100     372       Travel agent, cleaning, ao. operational services     -     -     53     -     11     162     132       Public administration, education and health     -     -     167     -     75     1 248     2 341       Public adm., defense and compulsory social security     -     -     112     -     11     337     315       Education     -     -     266     -     277     362     869       Human health and social work     -     -     29     -     36     549     1 156       Arts, entertainment and other services     -     -     33     -     19     92     691       Arts, entertainment and recreation activities     -     -     16     -     4     46     170       Act. of households as empl. of domestic personnel     -     -				20		3	64	166	35
Other business services     -     -     87     -     24     262     503       Knowledge-based services     -     -     35     -     13     100     372       Travel agent, cleaning, ao. operational services     -     -     53     -     11     162     132       Public administration, education and health     -     -     167     -     75     1 248     2 341       Public adm., defense and compulsory social security     -     -     112     -     11     337     315       Education     -     -     26     -     27     362     869       Human health and social work     -     -     29     -     36     549     1 156       Arts, entertainment and other services     -     -     -     33     19     92     691       Arts, entertainment and recreation activities     -     -     16     -     15     46     521       Other service activities     -     -     -     -     -     -     -     -       Of which: Bunkering abroad by Danish-operated     - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>43</td>									43
Knowledge-based services35-13100372Travel agent, cleaning, ao. operational services53-11162132Public administration, education and health167-7512482 341Public adm., defense and compulsory social security112-11337315Education26-27362869Human health and social work29-365491 156Arts, entertainment and other services33-1992691Arts, entertainment and recreation activities16-1546521Other service activitiesOf which: Bunkering abroad by Danish-operated	0		-						3 31
Travel agent, cleaning, ao. operational services53-11162132Public administration, education and health167-751 2482 341Public adm., defense and compulsory social security112-11337315Education26-27362869Human health and social work29-365491 156Arts, entertainment and other services16-1546521Other service activitiesOf which: Bunkering abroad by Danish-operated		-	-		-				1 75
Public administration, education and health167-751 2482 341Public adm., defense and compulsory social security112-11337315Education26-27362869Human health and social work29-365491 156Arts, entertainment and other services33-1992691Arts, entertainment and recreation activities16-1546521Other service activities16-446170Act. of households as empl. of domestic personnelOf which: Bunkering abroad by Danish-operated		-	-		-				1 56
Public adm., defense and compulsory social security112-11337315Education26-27362869Human health and social work29-365491 156Arts, entertainment and other services33-1992691Arts, entertainment and recreation activities16-1546521Other service activities16-446170Act. of households as empl. of domestic personnelOf which: Bunkering abroad by Danish-operated		-	-						10 01
Education26-27362869Human health and social work29-365491 156Arts, entertainment and other services33-1992691Arts, entertainment and recreation activities16-1546521Other service activities16-446170Act. of households as empl. of domestic personnelOf which: Bunkering abroad by Danish-operated		-	-		-				1 36
Human health and social work29-365491156Arts, entertainment and other services33-1992691Arts, entertainment and recreation activities16-1546521Other service activities16-446170Act. of households as empl. of domestic personnelOf which: Bunkering abroad by Danish-operated		-	-		-				3 71
Arts, entertainment and other services33-1992691Arts, entertainment and recreation activities16-1546521Other service activities16-446170Act. of households as empl. of domestic personnelOf which: Bunkering abroad by Danish-operated	health and social work	-	-		-				4 93
Arts, entertainment and recreation activities16-1546521Other service activities16-446170Act. of households as empl. of domestic personnelOf which: Bunkering abroad by Danish-operated		-	-						2 59
Other service activities 16 - 4 46 170 Act. of households as empl. of domestic personnel		-	-		-				2 09
Act. of households as empl. of domestic personnel     -		-	-		-				49
		-	-	-	-	-	-	-	
	h: Bunkering abroad by Danish-operated								
	The Barnoning abroad by Danion oporated	_	_	9 897	_	_		_	
Of which: Bunkering abroad by Danish-operated	h: Bunkering abroad by Danish-operated	-	-	5 051	-	-	-	-	
				262					
Of which: Bunkering abroad by Danish-operated 641 vehicles <sup>1</sup>				041					

<sup>1</sup> The Danish operated ships, planes and vehicles' bunkering abroad is part of the industry Transport.

www.statbank.dk/ene1ht+ene1ha

<sup>2</sup> Including waste

Table 417Gross energy consu	Imption				
	1970	1980	1990	2000	2012
			TJ		
Total industries and households	899 286	919 305	910 319	1 065 177	1 198 562
Households	374 525	359 928	320 491	329 248	327 728
Total industries	524 762	559 378	589 828	735 929	870 83
Agriculture, forestry and fishing	40 297	48 866	54 010	50 683	39 21
Mining and quarrying	6 165	6 935	17 791	39 759	30 89
Manufacturing	195 664	174 351	160 611	160 954	124 06
Utility services	4 727	5 748	8 628	10 232	12 94
Electricity, gas, steam and air conditioning supply	939	1 576	2 118	2 417	3 824
Water supply, sewerage and waste management	3 788	4 172	6 510	7 815	9 12
Construction	11 802	12 849	15 186	17 990	17 74
Trade and transport etc.	215 867	229 700	258 125	383 037	565 71
Wholesale and retail trade	54 730	59 172	50 898	48 049	44 48
Transportation	152 863	163 162	199 372	327 356	510 35
Accommodation and food service activities	8 273	7 366	7 854	7 632	10 880
Information and communication	4 957	5 842	6 246	7 212	9 693
Financial and insurance	2 996	3 850	4 272	3 383	3 372
Real estate activities and renting of non-residential buildings	1 135	1 454	1 922	2 087	2 499
Dwellings	1 125	1 629	1 988	1 578	1 23
Other business services	6 985	8 813	10 448	11 050	13 06
Knowledge-based services	4 258	5 503	6 816	6 731	6 94
Travel agent, cleaning, and other operationel services	2 727	3 309	3 632	4 319	6 12
Public administration, education and health	26 281	51 041	42 800	39 782	40 229
Public administration, defence and compulsory social security	7 332	15 834	9 093	8 223	9 47
Education	8 916	13 778	11 377	11 263	13 28
Human health and social work	10 032	21 428	22 330	20 295	17 47
Arts, entertainment and other services	6 762	8 298	7 802	8 181	10 15
Arts, entertainment and recreation activities	3 259	4 891	5 116	5 275	7 56
Other service activities	3 504	3 407	2 685	2 906	2 59
Activities of households as employers of domestic personnel	-	-	-	-	200
Of which: Bunkering abroad by Danish-operated ships <sup>1</sup>	91 959	96 821	117 645	244 464	402 31
Of which: Bunkering abroad by Danish-operated planes <sup>1</sup>	1 448	2 360	3 777	7 144	15 806
Of which: Bunkering abroad by Danish-operated vehicles <sup>1</sup>	00	2 000	0111	1 177	27 374
or which, burkering abroad by Danish-operated vehicles.	-	-	-	-	21 31

<sup>1</sup> The Danish operated ships, planes and vehicles' bunkering abroad is part of the industry Transport.

www.statbank.dk/ene3h

Table 418 Manufactur	ers' energy co Solid fuel	Liquid fuel	Gas	Electricity	District heating	
		•		Liectricity	District freating	
—	thousand GJ					
Total <sup>1</sup>	10 023	15 038	41 624	23 417	5 158	
Extraction of gravel and stone	968	516	655	254	4	
Mining support service activities	0	53	7	16	17	
Production of meat and meat products	8	111	1 809	1 421	72	
Processing and preserving of fish	308	169	733	402	55	
Dairy products		59	3 371	1 495	48	
Grain mill and bakery products	2	50	1 279	703	212	
Other food products	1 281	3 447	2 010	1 867	964	
Beverages	0	25	1 149	443	40	
Tobacco products	0	3	33	25	11	
Textiles	7	8	256	306	46	
Wearing apparel	1	3	7	10	8	
Leather and footwear	0	0	11	10	Č	
Wood and wood products	1 686	146	119	638	185	
Paper and paper products	4	53	1 486	502	63	
Printing etc.	1	9	108	392	81	
Oil refinery etc.	0	841	14 313	1 065	586	
Basic chemicals	0	379	1 038	1 738	577	
Paints and soap etc.	483	34	2 625	935	78	
Pharmaceuticals	440	14	898	1 182	355	
Rubber and plastic products	24	49	486	1 518	127	
Glass and ceramic products	0	2	1 265	436	11	
Concrete and bricks	3 618	8 362	3 323	1 615	77	
Basic metals	0010	45	1 447	1 087	60	
Fabricated metal products	71	184	1 025	1 430	305	
Computers and communication equipment etc.	1	1	162	147	40	
Other electronic products	0	4	32	177	107	
Electric motors, etc.	0	6	81	95	30	
Wires and cables	1	5	76	163	20	
Household appliances, lamps, etc.	1	2	70	65	19	
Engines, windmills and pumps	16	114	686	1 301	315	
Other machinery	105	227	518	670	224	
Motor vehicles and related parts	8	18	211	185	30	
Ships and other transport equipment	3	6	15	77	91	
Furniture	984	16	162	381	52	
Toys and other manufacturing	904 5	7	54	321	52 45	
	5 0		54 49	321 86	40 47	
Medical instruments, etc. Repair and installation of machinery and equipment	0	6 63	49 54	80 258	47 155	

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

 $^{1}$  Incl. extraction of gravel, clay, stone and salt, etc.

Table 419	Production of renewable energy						
	1990	2000	2005	2010	2013		
Renewable energy, total	45 704 511	80 147 160	112 711 642	138 736 213	144 965 102		
Wind power	2 197 080	15 268 317	23 810 400	28 113 919	40 043 785		
Hydro power	100 800	108 720	81 000	74 311	48 310		
Solar power	0	4 320	7 776	21 698	1 863 148		
Solar heat	99 800	330 700	411 465	635 641	2 889 199		
Geothermal energy	96 000	116 078	343 983	424 656	228 970		
Straw	12 481 150	15 893 450	21 023 550	23 269 600	20 637 850		
Firewood	8 757 120	12 431 616	17 666 749	23 778 598	18 850 932		
Wood chips	1 723 680	2 744 455	6 082 192	11 318 853	11 745 970		
Wood pellets	1 575 000	3 092 916	4 718 600	4 364 425	5 201 755		
Wood waste	6 191 013	6 895 078	6 499 627	8 500 208	9 111 065		
Biogas	752 000	2 911 659	3 829 964	4 278 002	4 641 914		
Bio oil	744 000	48 900	3 392 552	4 824 033	4 297 200		
Heat pumps	2 462 400	3 585 484	4 058 263	8 159 122	4 917 024		
Waste renewable	8 524 468	16 715 466	20 785 521	20 973 145	20 487 980		

www.statbank.dk/ene2ht