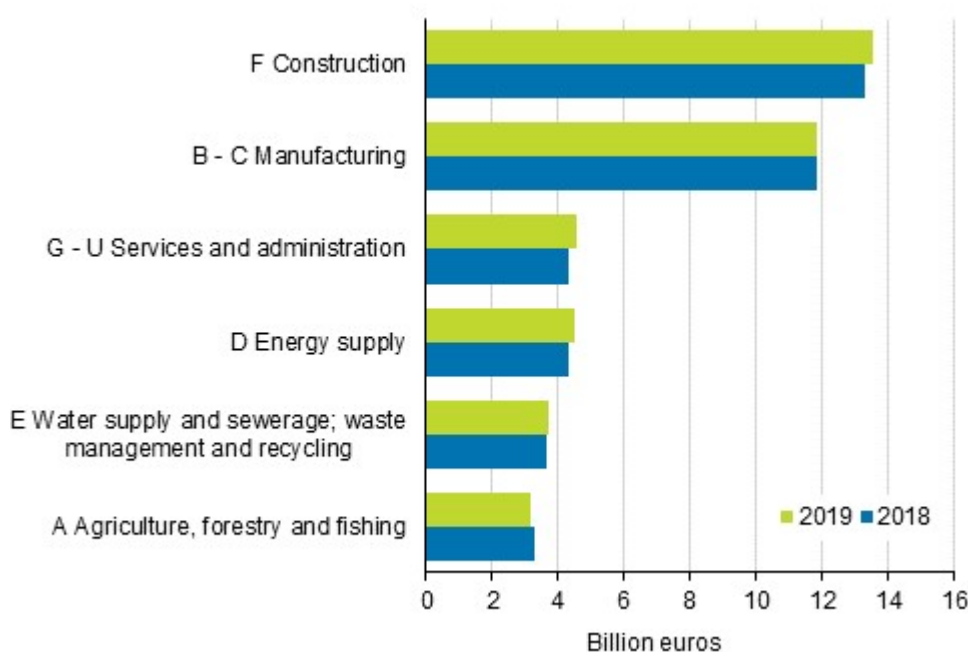


# Environmental goods and services sector 2019

## Environmental goods and services sector has grown significantly in energy production in recent years

The turnover from Finland's environmental goods and services sector was EUR 41 billion in 2019. Good 160,000 staff-years were made in the environmental goods and services sector. The value of exports was close on EUR nine billion and the value added reached almost EUR 16 billion, which is close on eight per cent of the value added of the entire national economy. In energy production, the turnover of the environmental goods and services sector has grown by over 20 per cent from 2013. These data derive from Statistics Finland's statistics on the environmental goods and services sector.

**Turnover of the environmental goods and services sector by industry 2018 and 2019, billion euros**



The turnover of the biggest industry of the environmental goods and services sector, construction, was more than EUR 13 billion in 2019. This is one-third of the whole environmental goods and services sector. Nearly 58,000 staff-years were worked in construction and its value added was good EUR four billion.

In the industry of energy production the turnover of the environmental goods and services sector has grown by 23 per cent since 2013. The growth is due to increased use of renewable energy sources in production. Of these, especially the use of wood-based fuels in heat production and the use of wind power in electricity production have grown significantly.

In 2019, the majority of the turnover from the environmental goods and services sector, 85 per cent, was connected to resource management and the remaining 15 per cent to environmental protection. The clearly biggest product category of the environmental goods and services sector was management of energy resources with a turnover of over EUR 21 billion. The next largest product categories were management of minerals, turnover over EUR five billion and management of forest resources with a turnover of over EUR three billion.

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## Appendix tables

**Appendix table 1. Turnover of the environmental goods and services sector by industry 2012-2019, million euros**

	2012	2013	2014	2015	2016	2017	2018	2019
A Agriculture, forestry and fishing	2,197	2,498	2,546	2,485	2,627	2,856	3,269	3,148
01, 03 Agriculture, fishing and hunting	106	106	115	99	94	119	142	166
02 Forestry	2,091	2,393	2,431	2,386	2,532	2,736	3,127	2,982
B Mining and quarrying	3	3	4	4	5	5	5	5
C Manufacturing	9,274	9,045	10,892	10,399	10,149	11,628	11,855	11,811
16 - 17 Forest industry	2,500	2,678	2,869	2,703	2,810	2,938	2,876	2,973
19 - 22 Chemical industry	285	279	1,492	1,591	1,575	2,174	2,274	2,092
24 - 30, 33 Metal industry	6,238	5,894	6,376	5,956	5,610	6,372	6,285	6,348
10 - 15, 18, 23, 31 - 32 Other manufacturing	252	195	156	149	158	144	419	397
D Energy supply	3,666	3,636	3,662	3,976	3,963	4,202	4,333	4,507
E Water supply and waste management	3,104	3,183	3,348	3,440	3,458	3,601	3,660	3,688
36 - 37 Water supply and sewerage	1,259	1,297	1,380	1,395	1,448	1,475	1,534	1,562
38 - 39 Waste management, materials recycling and other waste management services	1,846	1,886	1,968	2,045	2,010	2,126	2,126	2,126
F Construction	10,971	10,840	10,618	11,446	13,309	14,052	13,295	13,528
G - U Services and administration	3,769	3,782	3,755	3,886	4,011	4,264	4,341	4,568
<b>Total</b>	<b>32,983</b>	<b>32,988</b>	<b>34,825</b>	<b>35,648</b>	<b>37,534</b>	<b>40,609</b>	<b>40,761</b>	<b>41,257</b>

**Appendix table 2. Value added of environmental goods and services sector by industry 2012-2019, million euros**

	2012	2013	2014	2015	2016	2017	2018	2019
A Agriculture, forestry and fishing	1,616	1,845	1,902	1,867	1,996	2,137	2,416	2,308
01, 03 Agriculture, fishing and hunting	32	31	35	29	29	37	43	55
02 Forestry	1,583	1,814	1,867	1,838	1,967	2,100	2,373	2,253
B Mining and quarrying	1	1	1	1	2	2	2	2
C Manufacturing	1,953	1,989	2,356	2,556	2,479	2,897	2,876	2,830
16 - 17 Forest industry	516	554	625	609	638	654	661	716
19 - 22 Chemical industry	90	88	378	449	464	607	669	640
24 - 30, 33 Metal industry	1,253	1,277	1,299	1,444	1,318	1,585	1,395	1,332
10 - 15, 18, 23, 31 - 32 Other manufacturing	94	71	54	54	58	51	151	141
D Energy supply	1,664	1,730	1,725	1,831	1,750	1,959	1,954	2,175
E Water supply and waste management	1,488	1,560	1,639	1,664	1,711	1,703	1,684	1,659
36 - 37 Water supply and sewerage	796	804	850	862	923	880	899	919
38 - 39 Waste management, materials recycling and other waste management services	692	756	788	802	788	822	785	740
F Construction	3,831	3,809	3,672	4,180	4,720	4,820	4,433	4,497
G - U Services and administration	1,857	1,813	1,827	1,914	1,997	2,113	2,139	2,274
<b>Total</b>	<b>12,409</b>	<b>12,744</b>	<b>13,122</b>	<b>14,038</b>	<b>14,680</b>	<b>15,631</b>	<b>15,505</b>	<b>15,752</b>

**Appendix table 3. Exports of environmental goods and services sector by industry 2012-2019, million euros**

	2012	2013	2014	2015	2016	2017	2018	2019
A Agriculture, forestry and fishing	52	53	45	58	50	56	60	62
01, 03 Agriculture, fishing and hunting	14	15	14	20	11	17	20	22
02 Forestry	38	38	31	38	39	39	40	40
B Mining and quarrying	0	0	1	1	1	1	1	1
C Manufacturing	6,051	5,894	6,897	7,020	6,998	8,146	7,736	7,844
16 - 17 Forest industry	1,465	1,609	1,769	1,633	1,739	1,832	1,690	1,792
19 - 22 Chemical industry	142	157	992	1,213	1,241	1,792	1,796	1,561
24 - 30, 33 Metal industry	4,385	4,081	4,100	4,142	3,988	4,495	4,204	4,421
10 - 15, 18, 23, 31 - 32 Other manufacturing	59	46	36	31	31	28	73	72
D Energy supply	56	41	23	66	41	27	26	26
E Water supply and waste management	370	338	291	306	259	332	306	299
36 - 37 Water supply and sewerage	.	.	.	.	.	.	.	.
38 - 39 Waste management, materials recycling and other waste management services	370	338	291	306	259	332	306	299
F Construction	3	.	.	0	3	.	.	.
G - U Services and administration	331	456	303	477	593	601	516	502
<b>Total</b>	<b>6,846</b>	<b>6,782</b>	<b>7,559</b>	<b>7,927</b>	<b>8,119</b>	<b>9,163</b>	<b>8,672</b>	<b>8,734</b>

**Appendix table 4. Employment of environmental goods and services sector by industry 2012-2019, full time equivalent**

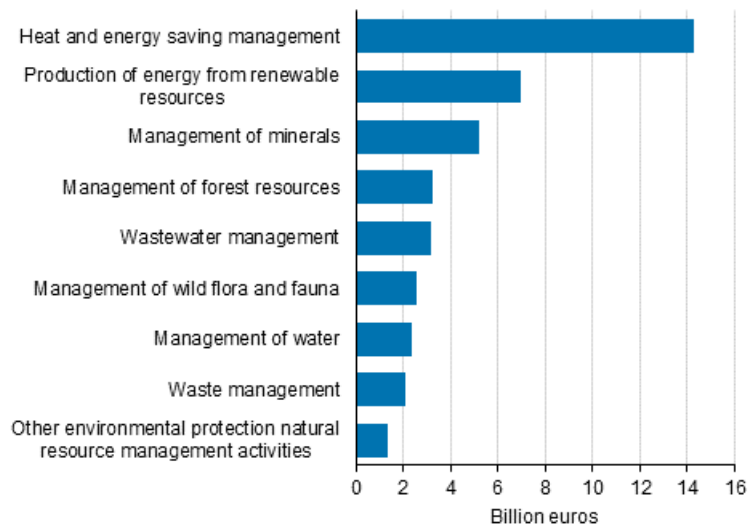
	2012	2013	2014	2015	2016	2017	2018	2019
A Agriculture, forestry and fishing	13,628	14,002	13,844	12,930	12,674	13,245	14,095	15,188
01, 03 Agriculture, fishing and hunting	1,831	1,767	2,030	1,804	1,583	1,924	2,087	2,312
02 Forestry	11,797	12,234	11,814	11,126	11,092	11,320	12,007	12,876
B Mining and quarrying	11	12	18	17	21	20	20	24
C Manufacturing	24,590	23,758	25,266	24,310	23,771	23,943	23,523	23,940
16 - 17 Forest industry	6,052	6,350	6,354	5,937	6,233	5,946	5,336	5,463
19 - 22 Chemical industry	1,217	1,209	3,211	3,384	3,359	4,044	4,059	3,652
24 - 30, 33 Metal industry	15,951	15,164	14,891	14,227	13,407	13,310	12,332	13,084
10 - 15, 18, 23, 31 - 32 Other manufacturing	1,369	1,034	811	763	772	643	1,797	1,739
D Energy supply	5,824	5,680	5,343	5,746	5,725	5,944	5,783	6,002
E Water supply and waste management	11,574	11,774	11,992	12,159	12,205	12,585	12,350	12,387
36 - 37 Water supply and sewerage	4,706	4,707	4,705	4,706	4,605	4,706	4,806	4,807
38 - 39 Waste management, materials recycling and other waste management services	6,869	7,067	7,287	7,453	7,601	7,879	7,543	7,580
F Construction	52,945	52,314	51,948	56,841	63,397	65,079	57,842	57,802
G - U Services and administration	44,141	43,562	44,362	44,543	44,751	44,687	45,536	48,094
<b>Total</b>	<b>152,715</b>	<b>151,101</b>	<b>152,774</b>	<b>157,125</b>	<b>163,136</b>	<b>165,525</b>	<b>159,246</b>	<b>163,585</b>

**Appendix table 5. Turnover of the environmental goods and services sector by product classes 2012-2019, million euros**

	2012	2013	2014	2015	2016	2017	2018	2019
Environmental protection total	5,763	5,747	5,643	5,866	6,132	6,374	6,237	6,450
Protection of ambient air and climate	271	279	263	256	296	316	298	304
Wastewater management	2,793	2,757	2,766	2,917	3,165	3,302	3,088	3,176
Waste management	1,883	1,839	1,934	1,958	1,940	1,994	2,049	2,110
Protection and remediation of soil, groundwater and surface water	148	148	154	149	152	175	198	222
Other environmental protection activities	668	725	526	586	578	587	604	637
Management of natural resources total	27,220	27,241	29,182	29,783	31,402	34,235	34,525	34,807
Management of water	1,915	1,924	1,978	2,116	2,305	2,400	2,261	2,337
Management of forest resources	2,499	2,769	2,901	2,656	2,786	3,004	3,400	3,262
Management of wild flora and fauna	1,989	2,010	2,025	2,067	2,154	2,323	2,436	2,566
Production of energy from renewable resources	4,846	4,740	6,067	6,455	6,634	7,551	6,920	6,967
Heat/ energy saving and management	10,896	11,026	10,845	11,498	12,815	13,597	14,146	14,295
Management of minerals	4,869	4,580	5,175	4,807	4,531	5,199	5,187	5,175
Other natural resource management activities	205	191	189	184	178	162	177	205
<b>Total</b>	<b>32,983</b>	<b>32,988</b>	<b>34,825</b>	<b>35,648</b>	<b>37,534</b>	<b>40,609</b>	<b>40,761</b>	<b>41,257</b>

# Appendix figures

**Appendix figure 1. Turnover of the environmental goods and services sector by product classes 2019, billion euros**



### Inquiries

Sami Hautakangas      029 551 3791  
Head of Department in  
charge:  
Mari Ylä-Jarkko

[ymparistotilinpito@tilastokeskus.fi](mailto:ymparistotilinpito@tilastokeskus.fi)  
[www.stat.fi](http://www.stat.fi)

Source: Environmental goods and services sector 2019, Statistics Finland