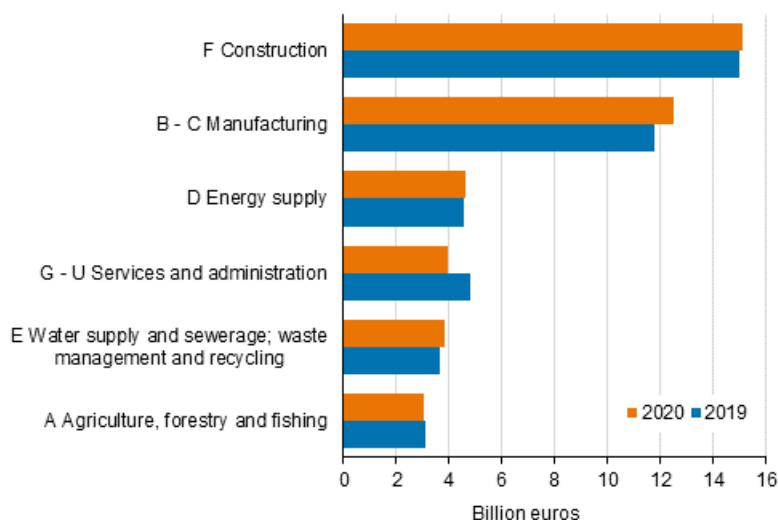


# Environmental goods and services sector 2020

## Manufacturing boosted growth in the environmental goods and services sector in 2020

The turnover from Finland's environmental goods and services sector was EUR 43 billion in 2020. Good 170,000 staff-years were made in the environmental goods and services sector. The value of exports was EUR 10 billion and value added over EUR 16 billion, which is eight per cent of the value added of the entire national economy. The turnover of manufacturing from the environmental goods and services sector was EUR 12.5 billion. It grew by six per cent from the previous year, which boosted the growth of the entire environmental goods and services sector. 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 2019 and 2020, billion euros



The turnover of the biggest industry of the environmental goods and services sector, construction, was in 2020 good EUR 15 billion, which was one-third of the whole environmental goods and services sector.

Nearly 66,000 staff-years were worked in construction and its value added was almost EUR five billion. The environmental goods and services sector in construction consists mainly of energy-efficient solutions.

The growth in the environmental goods and services sector in manufacturing was driven by the chemical industry. Its turnover has doubled in a few years, being nearly EUR three billion in 2020. The growth is due to increased production of renewable energy sources.

When comparing the whole national economy, the growth of the environmental goods and services sector in manufacturing is noteworthy in the corona year 2020 because as a whole industrial output fell clearly. In contrast, the turnover of service industries also fell in the environmental goods and services sector in the wake of the whole economy, but its share is under 10 per cent of all environmental goods and services.

In 2020, 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 nearly EUR 24 billion. The second largest product categories were management of minerals, the turnover being EUR five billion and waste water management with a turnover of over EUR three billion. Management of energy resource comprises energy production from renewable natural resources and activities related to energy saving. The management of minerals is mostly a business activity connected with the use of recycled metals.

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# Appendix tables

**Appendix table 1. Turnover of the environmental goods and services sector by industry 2012-2020, million euros**

Industry (TOL2008)	2012	2013	2014	2015	2016	2017	2018	2019	2020
A Agriculture, forestry and fishing	2,197	2,498	2,546	2,485	2,627	2,856	3,269	3,122	3,021
01, 03 Agriculture, fishing and hunting	106	106	115	99	94	119	142	170	208
02 Forestry	2,091	2,393	2,431	2,386	2,532	2,736	3,127	2,952	2,812
B Mining and quarrying	3	3	4	4	5	5	5	5	7
C Manufacturing	9,274	9,045	10,868	10,399	10,127	11,628	12,197	11,779	12,494
16 - 17 Forest industry	2,500	2,678	2,869	2,703	2,810	2,938	2,876	2,968	2,873
19 - 22 Chemical industry	286	278	1,491	1,591	1,575	2,174	2,273	2,092	3,155
24 - 30, 33 Metal industry	6,237	5,894	6,351	5,957	5,586	6,372	6,626	6,320	6,079
10 - 15, 18, 23, 31 - 32 Other manufacturing	252	195	156	149	157	143	419	397	386
D Energy supply	3,666	3,636	3,657	3,966	3,965	4,204	4,335	4,543	4,631
E Water supply and waste management	3,104	3,183	3,348	3,440	3,458	3,601	3,629	3,637	3,817
36 - 37 Water supply and sewerage	1,259	1,297	1,380	1,395	1,448	1,475	1,534	1,582	1,688
38 - 39 Waste management, materials recycling and other waste management services	1,846	1,886	1,968	2,045	2,010	2,126	2,095	2,055	2,129
F Construction	10,971	10,840	10,618	11,446	13,309	14,052	14,307	14,973	15,106
G - U Services and administration	3,801	3,814	3,800	3,924	4,046	4,297	4,521	4,830	3,941
Total	33,016	33,019	34,841	35,664	37,537	40,643	42,263	42,889	43,017

**Appendix table 2. Value added of environmental goods and services sector by industry 2012-2020, million euros**

Industry (TOL2008)	2012	2013	2014	2015	2016	2017	2018	2019	2020
A Agriculture, forestry and fishing	1,616	1,845	1,902	1,867	1,996	2,137	2,415	2,329	2,265
01, 03 Agriculture, fishing and hunting	32	31	35	29	29	37	43	57	78
02 Forestry	1,583	1,814	1,867	1,838	1,967	2,100	2,372	2,271	2,187
B Mining and quarrying	1	1	1	1	2	2	2	2	3
C Manufacturing	1,953	1,989	2,348	2,556	2,471	2,922	2,849	2,750	2,954
16 - 17 Forest industry	516	554	624	609	638	661	657	637	580
19 - 22 Chemical industry	90	87	379	449	465	612	667	671	929
24 - 30, 33 Metal industry	1,254	1,276	1,290	1,444	1,308	1,599	1,374	1,298	1,305
10 - 15, 18, 23, 31 - 32 Other manufacturing	94	71	55	54	59	51	151	143	139
D Energy supply	1,664	1,728	1,723	1,826	1,751	1,967	1,947	2,211	2,358
E Water supply and waste management	1,488	1,560	1,639	1,664	1,711	1,703	1,687	1,733	1,782
36 - 37 Water supply and sewerage	796	804	850	862	923	880	901	944	1,011
38 - 39 Waste management, materials recycling and other waste management services	692	755	788	802	789	822	786	789	771
F Construction	3,831	3,809	3,672	4,180	4,720	4,824	4,651	4,914	4,952
G - U Services and administration	1,863	1,817	1,820	1,914	2,000	2,121	2,207	2,356	1,926
Total	12,416	12,749	13,105	14,008	14,651	15,676	15,758	16,295	16,240

**Appendix table 3. Exports of environmental goods and services sector by industry 2012-2020, million euros**

Industry (TOL2008)	2012	2013	2014	2015	2016	2017	2018	2019	2020
A Agriculture, forestry and fishing	52	53	45	58	50	56	60	60	67
01, 03 Agriculture, fishing and hunting	14	15	14	20	11	17	20	22	28

Industry (TOL2008)	2012	2013	2014	2015	2016	2017	2018	2019	2020
02 Forestry	38	38	31	38	39	39	40	38	38
B Mining and quarrying	0	0	1	1	1	1	1	1	1
C Manufacturing	6,051	5,894	6,891	7,020	6,994	8,147	7,758	7,835	8,965
16 - 17 Forest industry	1,465	1,610	1,769	1,633	1,738	1,832	1,690	1,785	2,013
19 - 22 Chemical industry	142	158	991	1,213	1,240	1,792	1,796	1,556	2,316
24 - 30, 33 Metal industry	4,384	4,080	4,095	4,142	3,982	4,495	4,198	4,424	4,565
10 - 15, 18, 23, 31 - 32 Other manufacturing	59	47	36	31	32	28	73	71	70
D Energy supply	56	41	23	66	40	26	26	26	30
E Water supply and waste management	370	338	291	306	259	332	306	313	313
36 - 37 Water supply and sewerage	.	.	.	.	.	.	.	.	.
38 - 39 Waste management, materials recycling and other waste management services	370	338	291	306	259	332	306	313	313
F Construction	3	0	0	0	3	0	0	0	0
G - U Services and administration	331	456	303	477	593	601	570	558	561
Total	6,863	6,782	7,554	7,928	7,940	9,163	8,721	8,793	9,937

**Appendix table 4. Employment of environmental goods and services sector by industry 2012-2020, full time equivalent**

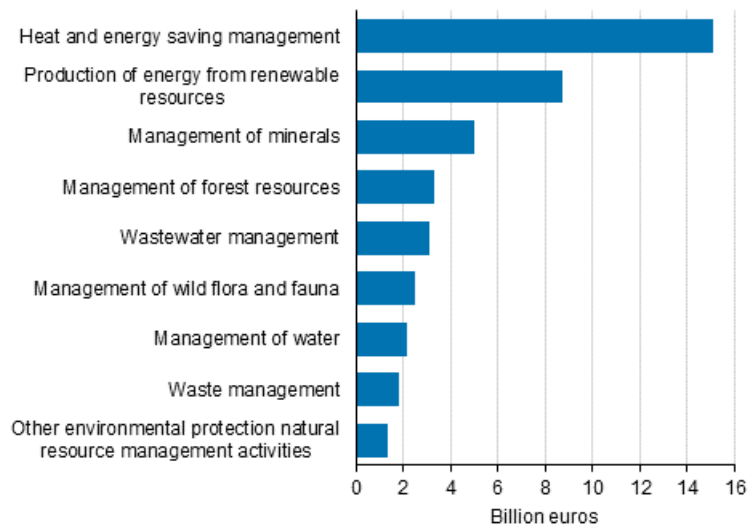
Industry (TOL2008)	2012	2013	2014	2015	2016	2017	2018	2019	2020
A Agriculture, forestry and fishing	13,628	14,002	13,844	12,930	12,674	13,245	14,095	14,138	14,554
01, 03 Agriculture, fishing and hunting	1,831	1,767	2,030	1,804	1,583	1,924	2,087	2,312	2,926
02 Forestry	11,797	12,234	11,814	11,126	11,092	11,320	12,007	11,826	11,629
B Mining and quarrying	11	12	18	17	21	20	20	20	26
C Manufacturing	24,590	23,758	25,103	24,310	23,630	23,945	23,330	23,647	25,605
16 - 17 Forest industry	6,052	6,351	6,353	5,937	6,233	5,946	5,336	5,460	5,875
19 - 22 Chemical industry	1,217	1,209	3,210	3,384	3,359	4,044	4,059	3,628	5,165
24 - 30, 33 Metal industry	15,951	15,165	14,727	14,227	13,266	13,312	12,138	12,846	12,933
10 - 15, 18, 23, 31 - 32 Other manufacturing	1,369	1,034	810	763	772	643	1,797	1,712	1,632
D Energy supply	5,826	5,680	5,336	5,731	5,727	5,947	5,785	5,993	7,156
E Water supply and waste management	11,574	11,774	11,992	12,159	12,205	12,585	12,351	12,797	13,258
36 - 37 Water supply and sewerage	4,705	4,707	4,705	4,706	4,605	4,706	4,806	4,908	5,114
38 - 39 Waste management, materials recycling and other waste management services	6,869	7,067	7,287	7,453	7,601	7,879	7,545	7,889	8,144
F Construction	52,945	52,314	51,948	56,841	63,397	65,079	61,908	66,055	65,847
G - U Services and administration	44,725	44,144	44,940	45,122	45,342	45,269	47,139	51,693	45,445
Total	153,299	151,684	153,181	157,110	162,996	166,090	164,628	174,343	171,891

**Appendix table 5. Turnover of the environmental goods and services sector by product classes 2012-2020, million euros**

Environmental goods and services class	2012	2013	2014	2015	2016	2017	2018	2019	2020
Environmental protection total	5,763	5,747	5,643	5,866	6,132	6,374	6,233	6,512	6,663
Protection of ambient air and climate	271	279	263	256	296	316	303	322	344
Wastewater management	2,793	2,757	2,766	2,917	3,165	3,302	3,087	3,226	3,302
Waste management	1,883	1,839	1,934	1,958	1,940	1,994	2,028	2,102	2,156
Protection and remediation of soil, groundwater and surface water	148	148	154	149	152	175	202	229	267
Other environmental protection activities	668	725	527	586	578	587	613	633	595
Management of natural resources total	27,220	27,241	29,153	29,772	31,382	34,237	36,030	36,376	36,353
Management of water	1,915	1,924	1,978	2,116	2,305	2,400	2,264	2,373	2,508
Management of forest resources	2,499	2,769	2,901	2,656	2,786	3,004	3,399	3,228	3,094
Management of wild flora and fauna	1,989	2,010	2,025	2,067	2,154	2,324	2,448	2,567	1,824
Production of energy from renewable resources	4,846	4,740	6,038	6,445	6,614	7,553	7,393	7,544	8,696
Heat/ energy saving and management	10,896	11,026	10,845	11,498	12,815	13,597	14,779	15,246	15,092
Management of minerals	4,869	4,580	5,175	4,807	4,531	5,199	5,557	5,201	4,997
Other natural resource management activities	204	192	189	184	178	162	191	216	144
Total	33,016	33,019	34,841	35,664	37,537	40,643	42,263	42,889	43,017

# Appendix figures

**Appendix figure 1. Turnover of the environmental goods and services sector by product classes 2020, billion euros**



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Source: Environmental goods and services sector 2020, Statistics Finland