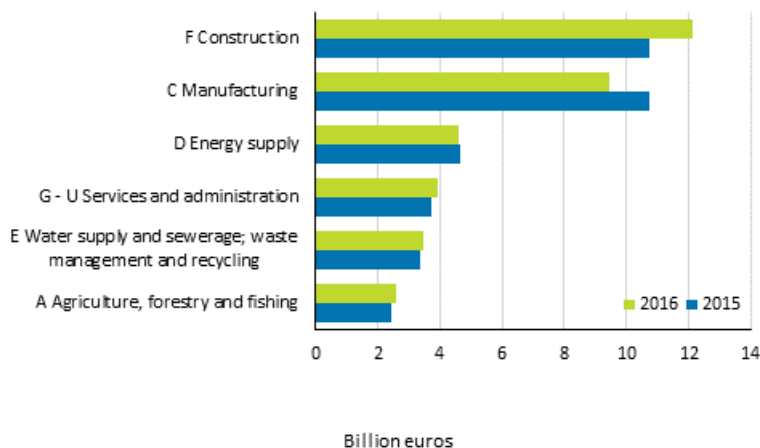


Environmental goods and services sector 2016

Construction grew most in the environmental goods and services sector

The turnover from Finland's environmental goods and services sector was EUR 36 billion in 2016. The value added of the environmental goods and services sector was EUR 12 billion, which was around six per cent of the value added of the entire national economy. The environmental goods and services sector employed 130,000 persons and its exports amounted to EUR seven billion in 2016. 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 in 2015 and 2016, EUR billion



The turnover of the biggest industry of the environmental goods and services sector, construction, was over EUR 12 billion, which was one-third of the whole environmental goods and services sector. Construction employed good 33,000 persons and its value added was good EUR two billion.

The majority of the environmental goods and services sector, 84 per cent, was connected to resource management and just 16 per cent to environmental protection in 2016. The biggest product categories of resource management were heat and energy saving and management, with a turnover of EUR 12 billion,

production of energy from renewable resources, EUR seven billion, and management of minerals, with a turnover of almost EUR five billion. The biggest product categories of environmental protection were waste water management with a turnover of EUR three billion and waste management with a turnover of EUR two billion.

The turnover from environmental goods and services sector increased by 1.4 per cent from 2015 to 2016. In turn, value added remained unchanged and exports went down by 11 per cent mainly due to the decreased exports of the metal industry's environmental goods and services sector. Employment decreased by 1.1 per cent. The turnover of construction from the environmental goods and services sector grew by around 13 per cent compared with the previous year. The growth was primarily caused by the planning and construction costs of renewable energy power plants.

The concepts and definitions of the statistics are based on the EU Regulation (No 691/2011 and 538/2014) on European environmental economic accounts and Eurostat's manuals. Starting from the environmental goods and services sector 2015 release, the statistics are not comparable with the old statistics based on a sample inquiry.

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Appendix table 1. Turnover of the environmental goods and services sector by industry 2012-2016, million euros

Industry (TOL2008)	2012	2013	2014	2015	2016
A Agriculture, forestry and fishing	2 199	2 501	2 546	2 426	2 581
01, 03 Agriculture, fishing and hunting	108	109	114	97	97
02 Forestry	2 091	2 393	2 431	2 328	2 484
B Mining and quarrying	3	3	4	4	5
C Manufacturing	9 274	9 045	11 286	10 713	9 421
16 - 17 Forest industry	2 500	2 678	2 897	2 721	2 823
19 - 22 Chemical industry	285	279	1 491	1 597	1 575
24 - 30, 33 Metal industry	6 238	5 893	6 742	6 246	5 623
10 - 15, 18, 23, 31 - 32 Other manufacturing	252	195	156	149	158
D Energy supply	4 181	3 904	4 141	4 668	4 615
E Water supply and waste management	3 020	3 183	3 347	3 353	3 447
36 - 37 Water supply and sewerage	1 259	1 297	1 380	1 447	1 458
38 - 39 Waste management, materials recycling and other waste management services	1 762	1 886	1 968	1 906	1 989
F Construction	11 053	10 746	10 497	10 755	12 123
G - U Services and administration	3 684	3 689	3 655	3 720	3 934
Total	33 414	33 071	35 476	35 639	36 126

Appendix table 2. Value added of environmental goods and services sector by industry 2012-2016, million euros

Industry (TOL2008)	2012	2013	2014	2015	2016
A Agriculture, forestry and fishing	1 604	1 850	1 898	1 829	1 946
01, 03 Agriculture, fishing and hunting	36	40	35	26	29
02 Forestry	1 568	1 810	1 863	1 802	1 917
B Mining and quarrying	1	1	1	2	2
C Manufacturing	1 953	1 989	2 384	2 466	2 210
16 - 17 Forest industry	516	554	631	624	623
19 - 22 Chemical industry	90	88	378	428	460
24 - 30, 33 Metal industry	1 254	1 277	1 321	1 362	1 315
10 - 15, 18, 23, 31 - 32 Other manufacturing	93	71	54	52	59
D Energy supply	1 899	1 855	1 941	2 270	2 028
E Water supply and waste management	1 444	1 558	1 637	1 660	1 714
36 - 37 Water supply and sewerage	796	804	850	887	894
38 - 39 Waste management, materials recycling and other waste management services	648	754	787	773	820
F Construction	1 847	1 825	1 829	1 891	2 074
G - U Services and administration	1 791	1 739	1 731	1 803	1 941
Total	10 539	10 817	11 421	11 921	11 915

Appendix table 3. Exports of environmental goods and services sector by industry 2012-2016, million euros

Industry (TOL2008)	2012	2013	2014	2015	2016
A Agriculture, forestry and fishing	52	52	55	54	56
01, 03 Agriculture, fishing and hunting	13	14	16	19	19
02 Forestry	38	38	38	35	37
B Mining and quarrying	0	0	0	0	1
C Manufacturing	6 049	5 893	7 352	7 214	6 188
16 - 17 Forest industry	1 465	1 609	1 777	1 695	1 702
19 - 22 Chemical industry	142	157	1 081	1 154	1 243
24 - 30, 33 Metal industry	4 383	4 081	4 459	4 332	3 749
10 - 15, 18, 23, 31 - 32 Other manufacturing	58	46	34	32	29
D Energy supply	64	44	65	81	47
E Water supply and waste management	370	338	290	262	264
36 - 37 Water supply and sewerage
38 - 39 Waste management, materials recycling and other waste management services	370	338	290	262	264
F Construction	3
G - U Services and administration	313	429	287	387	565
Total	6 854	6 758	8 052	8 001	7 120

Appendix table 4. Employment of environmental goods and services sector by industry 2012-2016, full time equivalent

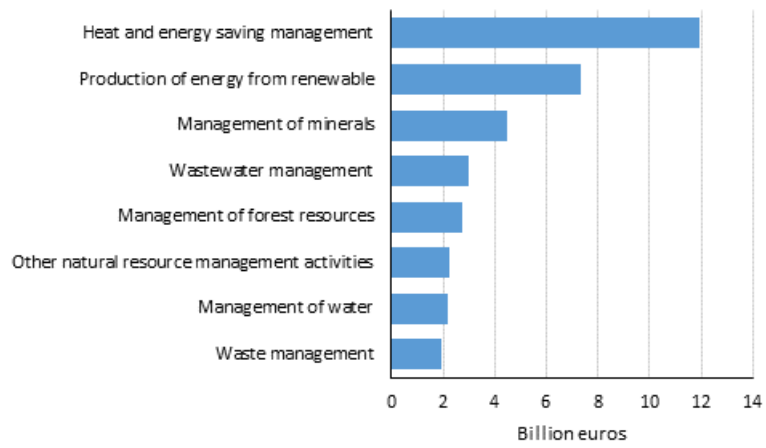
Industry (TOL2008)	2012	2013	2014	2015	2016
A Agriculture, forestry and fishing	15 259	15 367	15 151	14 309	13 590
01, 03 Agriculture, fishing and hunting	1 932	1 894	2 152	1 919	1 780
02 Forestry	13 327	13 472	12 999	12 390	11 810
B Mining and quarrying	9	10	15	15	18
C Manufacturing	24 584	23 668	25 695	24 866	20 406
16 - 17 Forest industry	6 051	6 293	6 341	6 134	5 997
19 - 22 Chemical industry	1 224	1 217	3 234	3 375	3 371
24 - 30, 33 Metal industry	15 937	15 128	15 312	14 589	13 114
10 - 15, 18, 23, 31 - 32 Other manufacturing	1 371	1 029	807	766	756
D Energy supply	6 645	6 100	6 044	6 697	6 680
E Water supply and waste management	11 188	11 788	12 000	12 041	12 162
36 - 37 Water supply and sewerage	4 705	4 706	4 705	4 805	4 905
38 - 39 Waste management, materials recycling and other waste management services	6 483	7 081	7 295	7 236	7 257
F Construction	31 004	30 341	30 655	31 121	33 165
G - U Services and administration	43 248	42 496	42 580	42 566	44 154
Total	131 940	129 773	132 143	131 618	130 175

Appendix table 5. Turnover of the environmental goods and services sector by product classes 2012-2016, million euros

Environmental goods and services class	2012	2013	2014	2015	2016
Environmental protection total	5 581	5 657	5 678	5 732	5 889
Protection of ambient air and climate	182	215	212	195	230
Wastewater management	2 755	2 728	2 713	2 856	3 003
Waste management	1 882	1 838	1 889	1 789	1 915
Protection and remediation of soil, groundwater and surface water	107	150	153	146	154
Other environmental protection activities	653	724	709	744	587
Management of natural resources total	27 833	27 413	29 797	29 907	30 237
Management of water	1 889	1 905	1 934	2 053	2 202
Management of forest resources	2 499	2 769	2 929	2 606	2 756
Production of energy from renewable resources	5 362	5 008	6 546	7 211	7 335
Heat/ energy saving and management	11 040	10 978	10 725	10 821	11 911
Minimisation of the use of fossil energy as raw materials	70	66	72	66	68
Management of minerals	4 868	4 579	5 503	5 004	4 502
Other natural resource management activities	2 101	2 106	2 086	2 141	2 221
Total	33 414	33 071	35 476	35 639	36 126

Appendix figures

Appendix figure 1. Turnover of the environmental goods and services sector by product classes 2016, billion euros



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Source: Environmental goods and services sector 2016, Statistics Finland