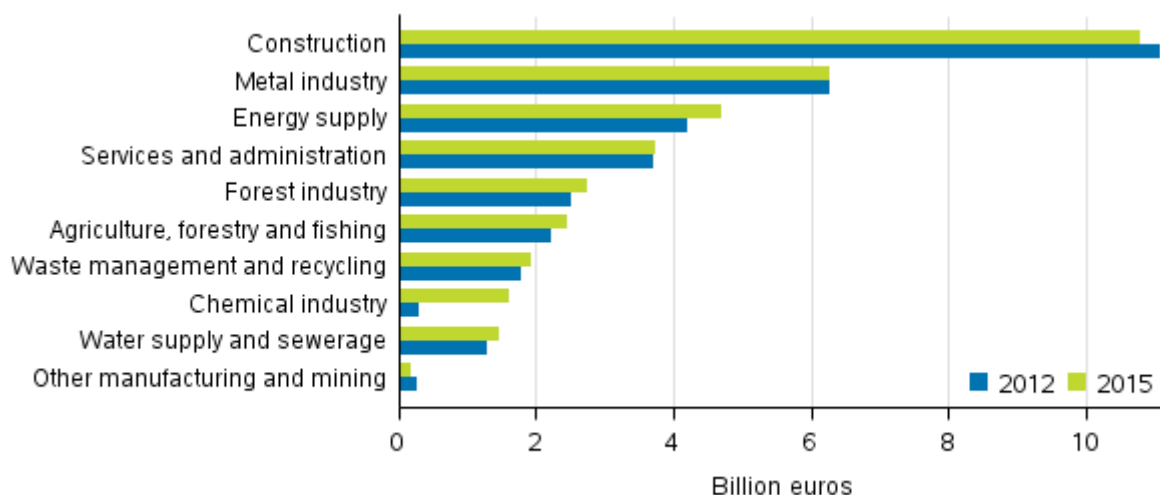


Environmental goods and services sector 2015

Construction is the biggest industry within the environmental goods and services sector

The value of Finland's environmental goods and services sector was nearly EUR 36 billion in 2015. The value added of the environmental goods and services sector was nearly EUR 12 billion and its GDP share was 5.7 per cent. The environmental goods and services sector employed 132,000 persons and its exports amounted to around EUR eight billion in 2015. The environmental goods and services sector was most engaged in construction, where its turnover was nearly EUR 10.8 billion. These data appear from Statistics Finland's renewed statistics on the environmental goods and services sector for the years 2012 to 2015. The statistics are connected to the EU Regulation on environmental economic accounts.

Turnover of the environmental goods and services sector by industry 2012 and 2015, billion euros



The environmental goods and services sector employed good 31,000 persons in construction in 2015. Of the environmental goods and services sector in construction, EUR 7.7 billion was related to heat and energy saving and management and to production of energy from renewable resources, and the remaining EUR 3.1 billion to wastewater management and waste management.

In the metal industry, the turnover of Finland's environmental goods and services sector was nearly EUR 6.2 billion in 2015. The activity employed nearly 15,000 persons. EUR 4.6 billion of the turnover in the metal industry were related to management of minerals. This refers to manufacturing which uses recycled metals as raw materials. The remainder was divided into several product categories of resource management and environmental protection.

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 2015. The biggest product classes of resource management were heat and energy saving and management, with a turnover of EUR 10.8 billion, production of energy from renewable resources, EUR 7.2 billion, and management of minerals, with a turnover of EUR 5.0 billion. The biggest product classes of environmental protection were wastewater management with a turnover of EUR 2.9 billion and waste management with a turnover of EUR 1.8 billion.

The turnover of the environmental goods and services sector grew moderately by 6.7 per cent in 2012 to 2015. In contrast, value added grew by 13.1 per cent and exports by 16.7 per cent. Employment remain unchanged. The turnover from the product class of production of energy from renewable resources grew clearly the most, by 34.5 per cent in 2012 to 2015.

The production method of the statistics on the environmental goods and services sector has been completely revised. The statistics now cover all industries. The source data for the statistics are register data, statistical data and other available data. Data have been collected from Statistics Finland's national accounts, statistics on industrial output, structural business and financial statement statistics, statistics on production of electricity and heat, and statistics on energy use in manufacturing, and from Finnish Customs, the Natural Resources Institute Finland, the Energy Authority, the Finnish Environmental Insurance Centre, and the Housing Finance and Development Centre of Finland. In addition, data from many business organisations and other experts have been used in exploring the shares of the environmental goods and services sector. The concepts and definitions of the statistics are based on the EU Regulation (No 691/2011, 538/2014) on European environmental economic accounts and Eurostat's manuals. The new statistics are not comparable with the old statistics based on a sample inquiry. According to the Regulation on European environmental economic accounts, the data of the statistics must be reported to the EU by the end of 2017.

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Appendix table 1. Turnover of the environmental goods and services sector by industry 2012-2015, million euros

Industry (TOL2008)	2012	2013	2014	2015
A Agriculture, forestry and fishing	2 198	2 501	2 545	2 425
01, 03 Agriculture, fishing and hunting	107	108	114	97
02 Forestry	2 090	2 392	2 431	2 328
B Mining and quarrying	2	2	4	4
C Manufacturing	9 274	9 044	11 286	10 712
16 - 17 Forest industry	2 499	2 677	2 897	2 721
19 - 22 Chemical industry	285	278	1 491	1 596
24 - 30, 33 Metal industry	6 237	5 892	6 741	6 245
10 - 15, 18, 23, 31 - 32 Other manufacturing	251	195	156	149
D Energy supply	4 181	3 904	4 140	4 667
E Water supply and waste management	3 020	3 183	3 347	3 352
36 - 37 Water supply and sewerage	1 258	1 297	1 379	1 446
38 - 39 Waste management, materials recycling and other waste management services	1 761	1 886	1 967	1 905
F Construction	11 052	10 746	10 496	10 754
G - U Services and administration	3 684	3 688	3 655	3 719
Total	33 414	33 071	35 476	35 637

Appendix table 2. Value added of environmental goods and services sector by industry 2012-2015, million euros

Industry (TOL2008)	2012	2013	2014	2015
A Agriculture, forestry and fishing	1 604	1 850	1 898	1 829
01, 03 Agriculture, fishing and hunting	36	40	35	26
02 Forestry	1 567	1 809	1 862	1 802
B Mining and quarrying	0	0	1	1
C Manufacturing	1 953	1 989	2 384	2 465
16 - 17 Forest industry	516	553	631	623
19 - 22 Chemical industry	90	87	378	428
24 - 30, 33 Metal industry	1 253	1 276	1 320	1 362
10 - 15, 18, 23, 31 - 32 Other manufacturing	93	70	54	51
D Energy supply	1 898	1 854	1 940	2 270
E Water supply and waste management	1 444	1 558	1 636	1 660
36 - 37 Water supply and sewerage	796	804	850	887
38 - 39 Waste management, materials recycling and other waste management services	648	753	786	773
F Construction	1 846	1 824	1 828	1 890
G - U Services and administration	1 791	1 739	1 731	1 802
Total	10 539	10 817	11 421	11 920

Appendix table 3. Exports of environmental goods and services sector by industry 2012-2015, million euros

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

Appendix table 4. Employment of environmental goods and services sector by industry 2012-2015, full time equivalent

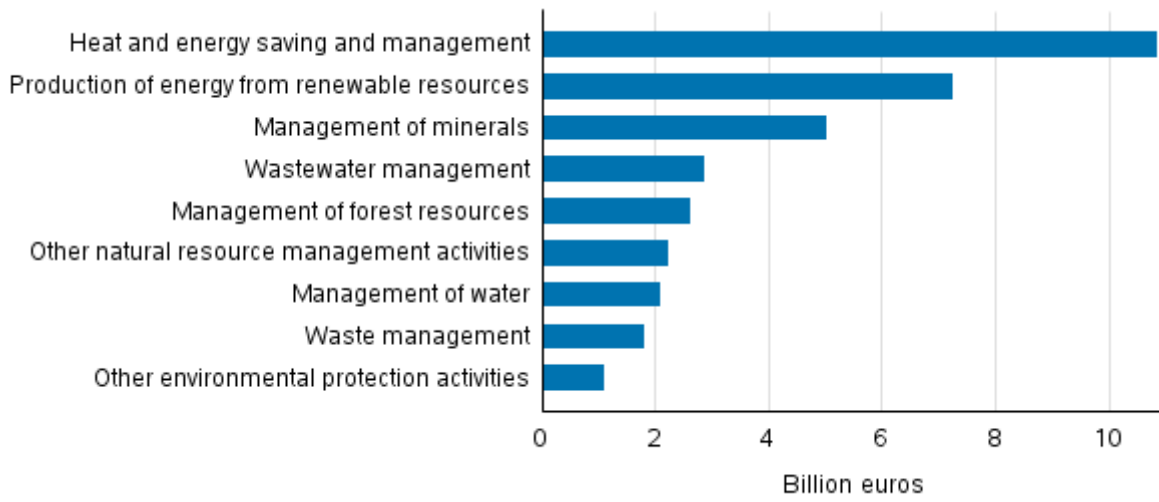
Industry (TOL2008)	2012	2013	2014	2015
A Agriculture, forestry and fishing	15 259	15 367	15 151	14 309
01, 03 Agriculture, fishing and hunting	1 932	1 894	2 152	1 919
02 Forestry	13 327	13 472	12 999	12 390
B Mining and quarrying	9	10	15	15
C Manufacturing	24 584	23 668	25 695	24 866
16 - 17 Forest industry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

Appendix table 5. Turnover of the environmental goods and services sector by product classes 2012-2015, million euros

Environmental goods and services class	2012	2013	2014	2015
Environmental protection total	5 581	5 657	5 678	5 732
Protection of ambient air and climate	182	215	212	195
Wastewater management	2 755	2 728	2 713	2 856
Waste management	1 882	1 838	1 889	1 789
Protection and remediation of soil, groundwater and surface water	107	150	153	146
Other environmental protection activities	653	724	709	744
Management of natural resources total	27 833	27 413	29 797	29 905
Management of water	1 889	1 905	1 934	2 053
Management of forest resources	2 499	2 769	2 929	2 606
Production of energy from renewable resources	5 362	5 008	6 546	7 211
Heat/ energy saving and management	11 040	10 978	10 725	10 821
Minimisation of the use of fossil energy as raw materials	70	66	72	66
Management of minerals	4 868	4 579	5 503	5 004
Other natural resource management activities	2 101	2 106	2 086	2 141
Total	33 414	33 071	35 476	35 637

Appendix figures

Appendix figure 1. Turnover of the environmental goods and services sector by product classes 2015, billion euros



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Source: Environmental goods and services sector 2015, Statistics Finland