

# 2015 EU ETS Emissions analysis

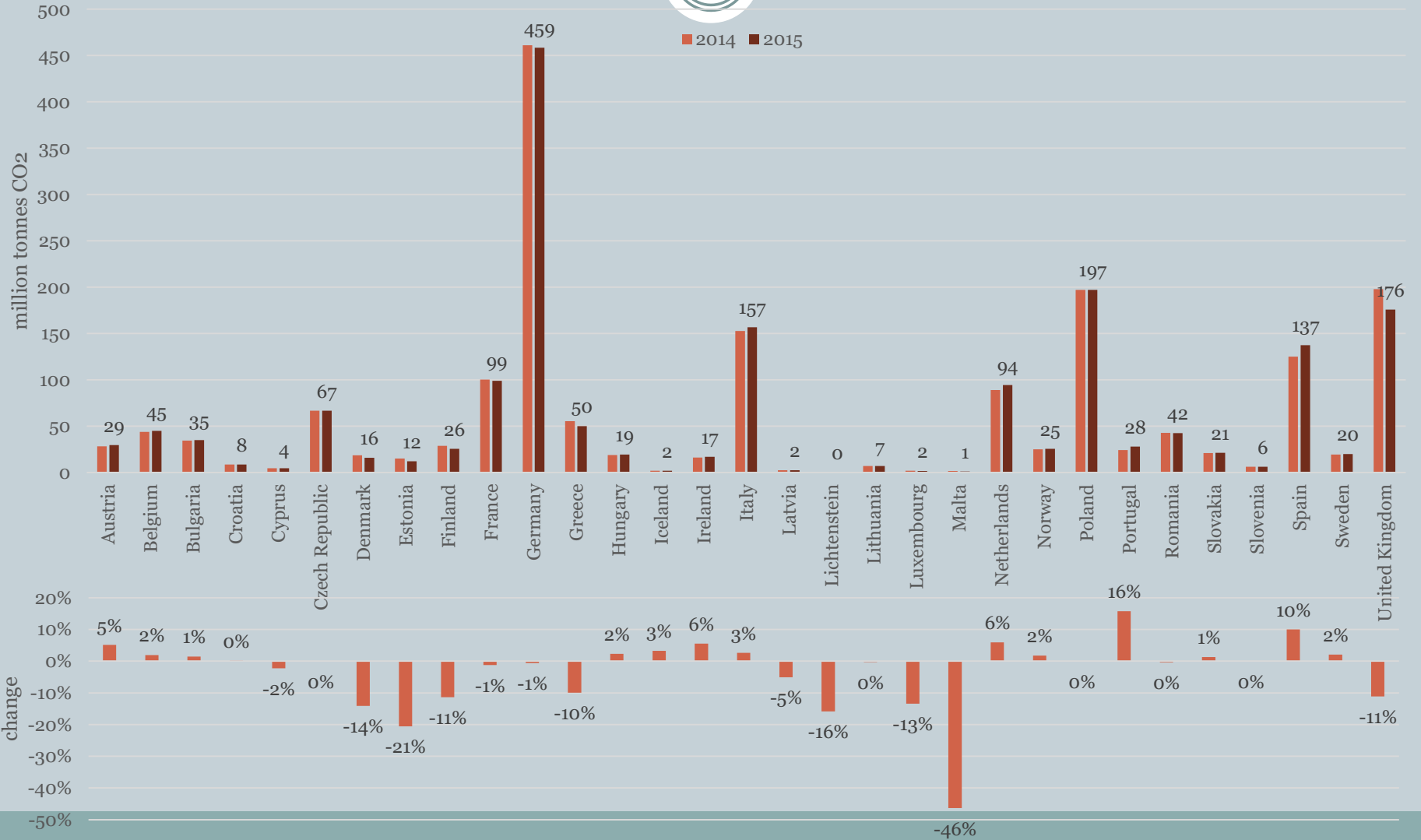
from EC data published 1200CET on 1-April 2016; excludes aviation



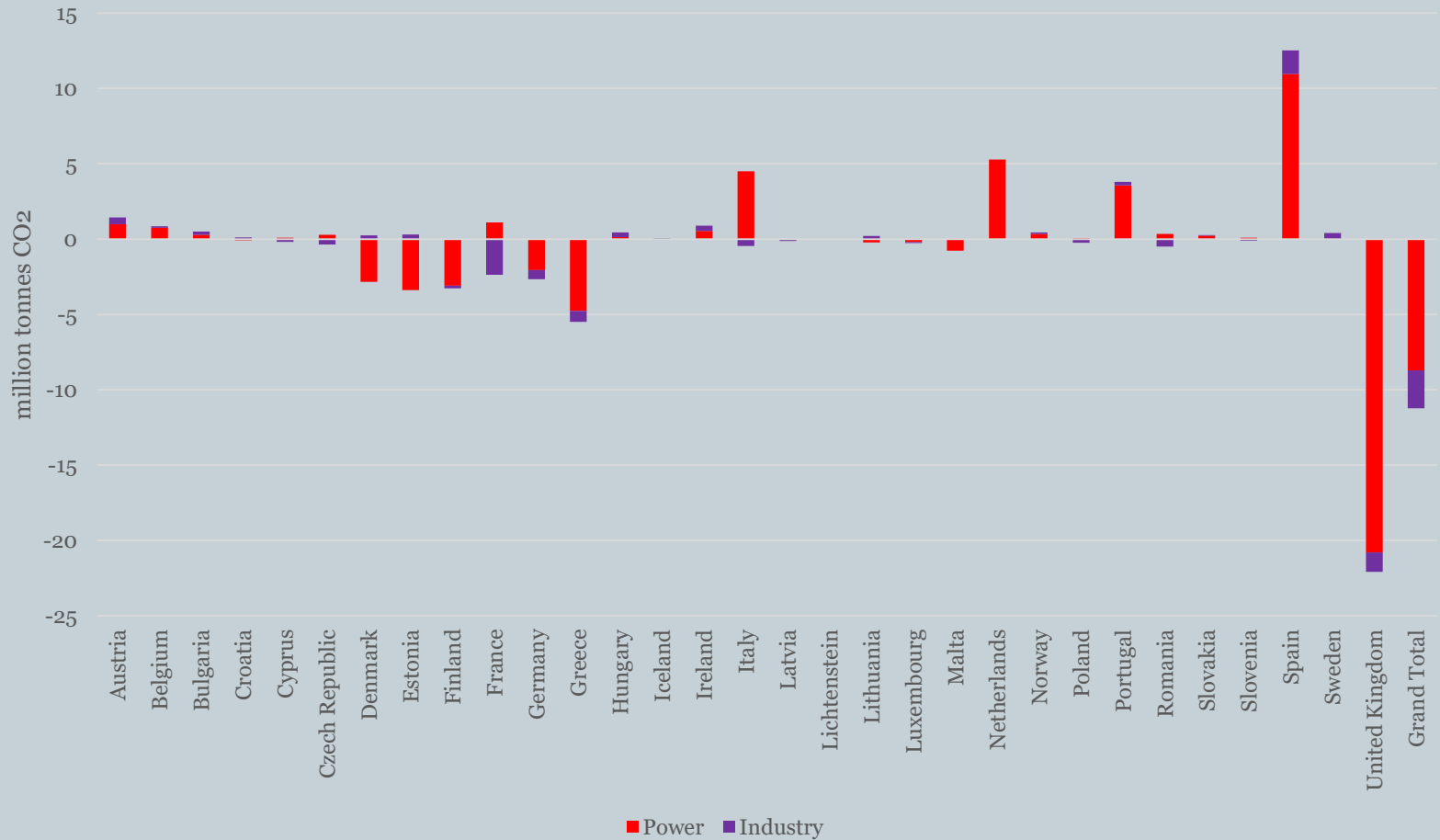
## Key points:

- Total emissions are 11mt down, or 0.6%, from 1813mt to 1802mt.
  - *Exact levels uncertain, as 10% of emissions have not been published (mostly Polish)*
- Power and heat emissions fell 0.6%, from 1073mt to 1065mt.
  - *This fall follows a massive 8% in 2014 power sector emissions, due to a record mild year. It is incredible that emissions in 2015 still fell as weather moved to be more “normal”.*
  - *This underlines the large long-term trend of falling emissions in the European power sector as renewables electricity displaces fossil.*
  - *UK coal power emissions saw a huge fall of 23%, whilst UK gas power also fell. See our blog today for more details.*
  - *German lignite power emissions fell slightly slower than overall EUETS emissions, and are still responsible for 9.0% of all EUETS emissions. See our second blog today for more details.*
  - *Netherlands power emissions increased by 11% as new coal plants came online. However, emissions should fall again as older coal plants are decommissioned in 2016 and 2017.*
  - *A dry region in Spain and Portugal significantly increased coal power emissions there; whilst a wet Nordic region led to lower coal generation in Denmark and Finland.*
- Industry emissions fell 0.3% from 740mt to 738mt.
  - *Emissions have fallen only very marginally.*
  - *UK steel emissions fell 18%.*
  - *Excluding this fall, total European industrial emissions were the same in 2015 as in 2014.*

# Emissions by Country **sandbag**

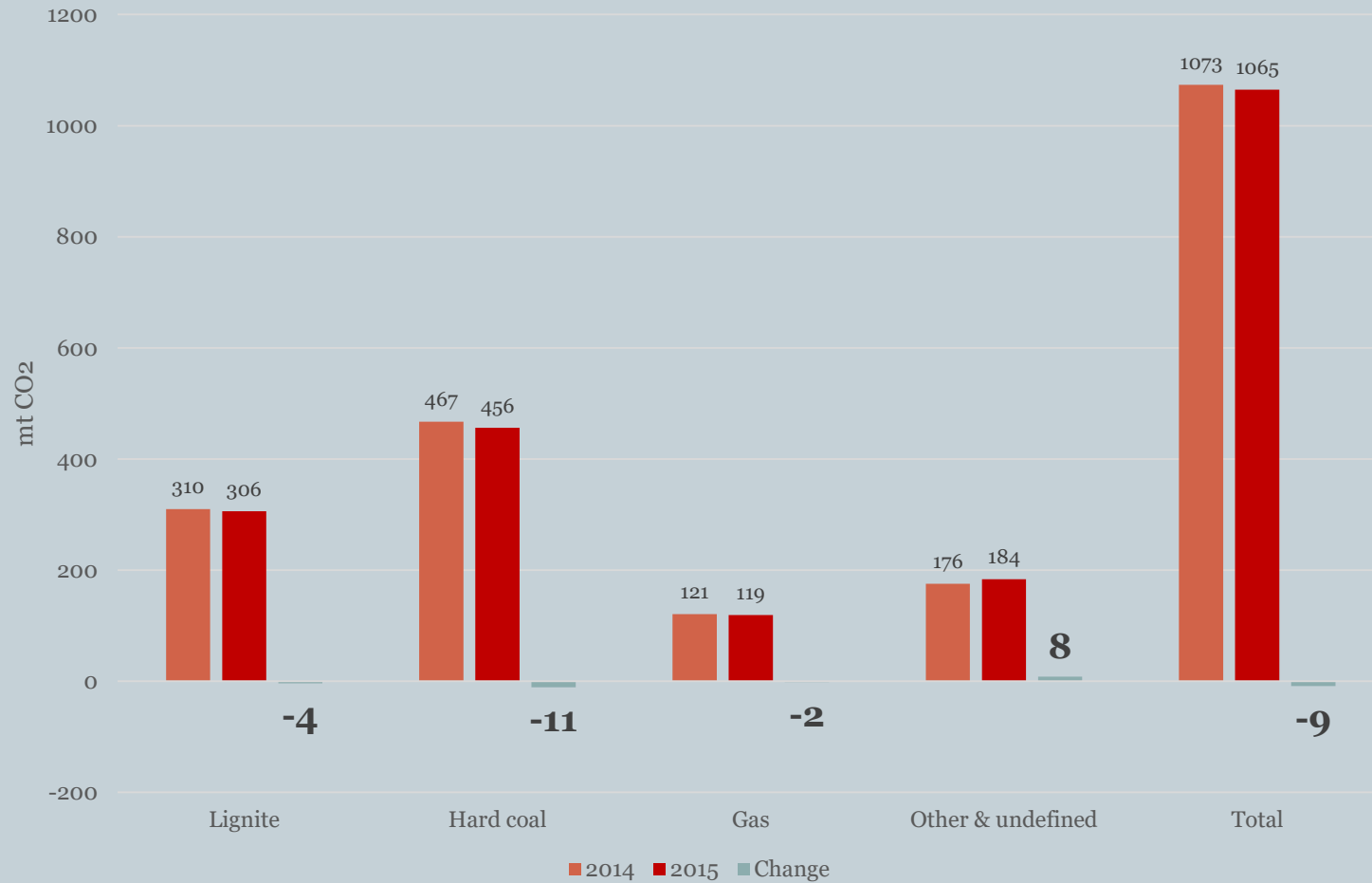


# Emissions changes 2014 to 2015



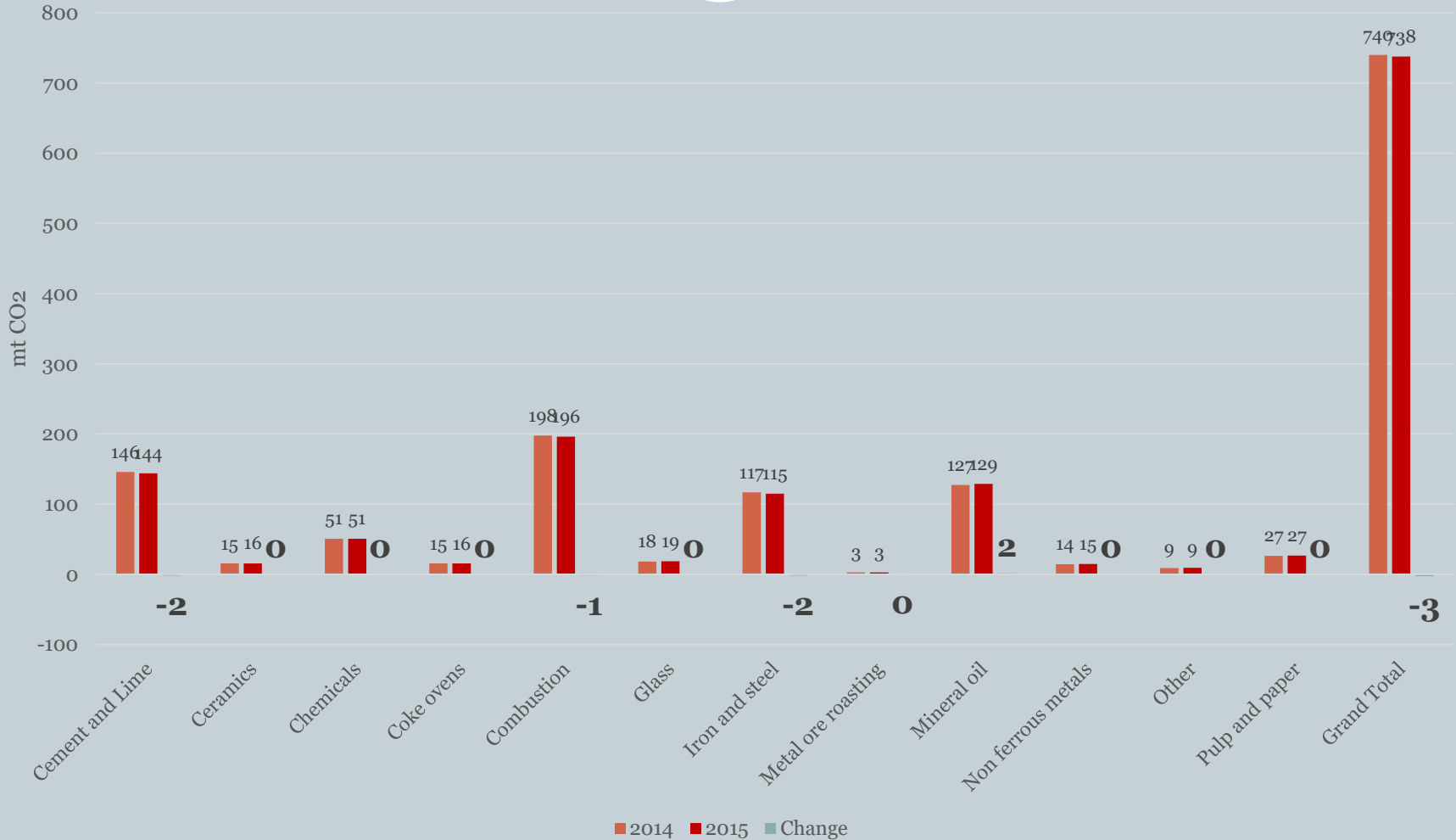
# Power & Heat Sector

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# Industrial Sector

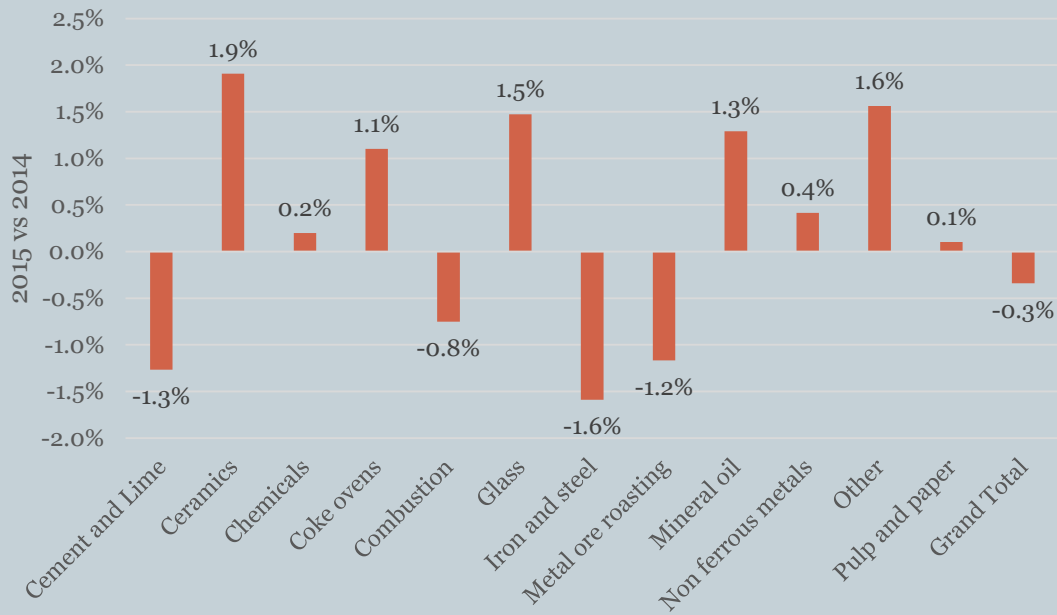
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# Industrial Sector %



## Year-on-year Change



# Industrial Sector

year-on-year tCO<sub>2</sub> changes by sector, by country



Country	Mineral oil	Ceramics	Glass	Coke ovens	Other	Chemicals	Non ferrous metals	Pulp and paper	Metal ore roasting	Combustion	Cement and Lime	Iron and steel	Grand Total
Spain	290,785	129,951	-31,477	-2,897	2,414	114,440	-183,185	-68,342	0	-381,071	719,244	974,394	1,564,256
Austria	90,864	-1,311	-1,181	0	4,680	-27,766	10,137	93,563	0	100,928	14,995	163,960	448,869
Sweden	59,665	-5,231	-833	0	4,632	-15,621	-22,170	-32,476	-46,555	-40,811	198,730	308,756	408,086
Ireland	79,189	2,622	0	0	0	0	0	3,697	0	41,451	213,315	0	340,274
Hungary	56,021	18,623	-9,207	-51,831	418	7,954	0	255	8,009	-161,944	194,040	249,497	311,835
Estonia	9,286	0	-150	0	0	0	0	-7,792	0	305,999	-4,245	0	303,098
Denmark	47,516	18,594	1,056	0	0	0	0	-1,398	0	124,077	62,553	0	252,398
Portugal	328,316	2,473	7,975	0	0	-17,750	0	26,752	0	7,268	-143,097	34,774	246,711
Bulgaria	-1,292	406	81,577	0	0	0	4,658	-30	0	238	132,618	6,303	224,478
Lithuania	124,504	-1,122	-1,850	0	-3,532	0	0	-5,356	0	57,975	34,117	0	204,736
Norway	-2,794	-3,845	3,791	0	0	264,663	4,520	-20,638	0	137,618	-100,543	-176,810	105,962
Croatia	109,866	3,360	-1,880	0	7,008	35,697	0	0	0	45,735	-91,060	-6,561	102,165
Belgium	94,000	27,943	13,417	-65,281	-2,485	50,193	0	72,760	0	414,623	-520,889	11,757	96,038
Iceland	0	0	0	0	56,547	0	0	0	0	550	0	0	57,097
Slovakia	154,246	3,200	2,565	0	2,550	306,009	32,123	8,807	0	-350,308	-94,106	-36,065	29,021
Lichtenstein	0	0	0	0	0	0	0	0	0	-49	0	0	-49
Netherlands	421,906	28,363	13,421	0	19,201	33,641	67,599	-1,113	0	-908,913	-70,107	359,395	-36,607
Luxembourg	0	0	1,228	0	0	0	-674	0	0	-17,012	-37,888	6,194	-48,152
Slovenia	0	0	3,527	0	-11,410	-25	5,072	-13,086	0	635	-86,795	-895	-102,977
Latvia	0	1,156	-145	0	0	0	0	-2,321	0	-9,249	-124,264	22,670	-112,153
Finland	-178,172	-5,470	1,995	0	14,390	7,250	-1,205	-94,129	-37	-65,965	-26,523	169,718	-178,148
Cyprus	0	-1,331	0	0	0	0	0	0	0	0	-180,582	0	-181,913
Poland	102,435	31,182	4,803	-52,801	14,345	85,120	19,117	14,723	0	-144,998	-430,137	121,260	-234,951
Czech Republic	11,782	-9,299	53,534	0	-1,394	13,001	315	-4,208	0	-318,479	81,709	-183,524	-356,563
Italy	890,295	99,899	105,792	0	45,458	60,509	26,887	110,274	-166	-283,237	-390,326	-1,132,997	-467,612
Romania	-95,616	34,974	12,228	0	5,976	-365,203	14,542	17,524	0	-727,543	655,441	-52,737	-500,414
Germany	153,022	-52,729	-16,865	-106,740	90	-337,859	107,119	38,718	8,648	-148,567	-658,451	412,169	-601,445
Greece	-135,734	7,509	-775	0	2,082	-3,526	9,867	-11,789	0	4,345	-589,109	-4,410	-721,540
United Kingdom	-399,564	-4,198	-24,024	448,641	-23,797	-22,933	-19,520	33,718	0	1,166,465	216,717	-2,694,016	-1,302,511
France	-572,023	-33,629	50,970	0	4,116	-87,311	-15,112	-130,640	-2,505	-353,892	-824,819	-409,826	-2,374,671
<b>Grand Total</b>	<b>1,638,503</b>	<b>292,090</b>	<b>269,492</b>	<b>169,091</b>	<b>141,289</b>	<b>100,483</b>	<b>60,090</b>	<b>27,473</b>	<b>-32,606</b>	<b>-1,484,131</b>	<b>-1,849,462</b>	<b>-1,856,994</b>	<b>-2,524,682</b>

# Top 10 Emitters

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## TOP 10 EUROPEAN POLLUTERS

RANK		PLANT	OWNER	2015 CO <sub>2</sub> EMISSIONS (Mt)	YEAR ON YEAR CHANGE
1	-	 Belchatow	PGE	36.9 <small>(2014 data)</small>	N/A
2	-	 Neurath	RWE	32.1	-1%
3	-	 Niederaussem	RWE	27.3	0%
4	-	 Jaenschwalde	Vattenfall	23.3	-4%
5	-	 Weisweiler	RWE	18.1	8%
6	-	 Drax	Drax	13.2	-21%
7	-	 Brindisi Sud	ENEL	13.1	10%
8	▲ +2	 Schwarze Pumpe	Vattenfall	11.6	0%
9	▲ +2	 Kozenice	ENEA	11.4	4%
10	▲ +4	 Maritsa East 2	TPP	11.3	6%
13	▼ -4	 Agios Dimitrios	PPC	10.6	-11%
14	▼ -6	 Lippendorf	Vattenfall	10.3	-14%





## ● Power and Heat sector

- Sandbag uses NACE codes, which we believe provide a better representation of what are power and heat installation, than does the “combustion” sector, which most analysts use. We also include additional installations which have no allocations.
- Specifically, Installations assigned to NACErev2 codes 35.00, 35.10, 35.11, 35.12, 35.13, 35.14 & 35.30 have been flagged as Power installations; additional CITL combustion sector installations have also been flagged as Power installations if have no free alloc PhaseIII but do have emissions 2013 (any NACErev2 code)

## ● Industry

- Industry is everything that is not power.
- The sub-sector categorisations are as per defined in the EUETS

## ● Fuel type

- Sandbag has mapped Power and Heat installations by fuel, with 80% coverage.

## ● Missing data

- Where data is missing for 2015 so far, we assume installations have the same emissions as 2014.