

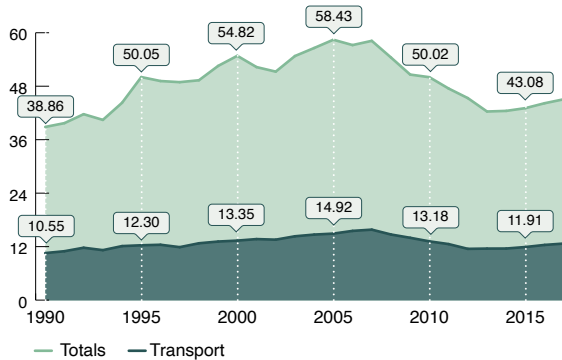
General climate change trends observed (1950 -2015)

Temperature increase	+0,25 °C/decade
Decreased rainfall	-1.4%/decade
Decreased rainfall (summer months)	-5%/decade
Increase in sea level	+3.3 cm/decade
Increased temperature of sea (up to 50m deep)	+0.3 °C/decade

CO2eq emissions in Catalonia

(M t CO2 eq)	2016	2017	% variation
Allocated emissions	14.06	14.93	6.21%
Unallocated emissions	30.07	30.14	0.22%
Total emissions	44.13	45.07	2.13%

Evolution of CO2 equivalent emissions (MT CO2 Eq)



Emissions allocated to Catalonia

(M t CO2 eq)	2016	2017	2018	% variation 2017 - 2018
Reported emissions [E]	14.06	14.93	14.51	-2.83%
Allocated emissions [A]	9.78	9.58	9.37	-2.18%
Balance [A-E]	-4.28	-5.35	-5.14	-4.00%

Climate emergency

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Basic data for Catalonia. 2019

Climate emergency



Generalitat de Catalunya
Government of Catalonia



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Comparison of absolute emissions

(M tonnes CO ₂ eq)	2017	% of Catalonia
Spain	333	13.5%
EU	4,483	1.0%

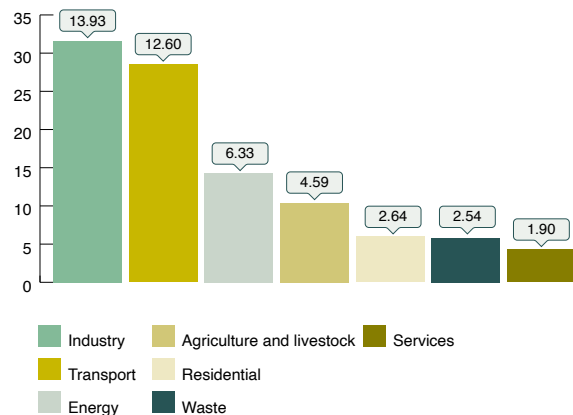
Annual emissions over GDP rate

(g CO ₂ /€)	2017	Versus 1990
Catalonia	198	-29%
Spain	290	
European Union	288	

Annual per capital emissions rate

(t CO ₂ eq/per capita)	2017	Versus 1990	Versus 2005
Catalonia	5.93	-6%	-30%
Spain	7		
European Union	8.4		

Greenhouse gas emissions by sectors (M t CO₂ eq)



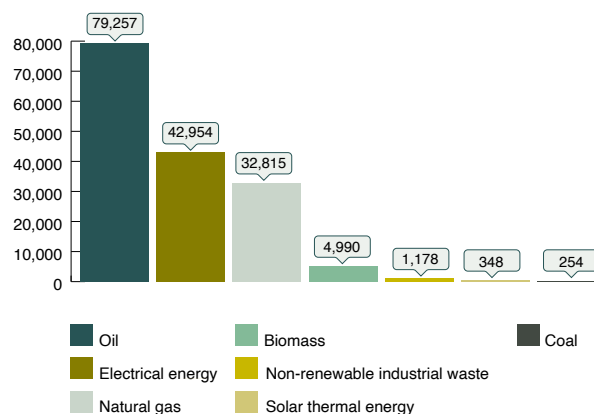
Energy production

Gross electricity production in Catalonia (2018)	GWh	%
Non-renewable energies	35,558	79.52%
Fossil fuels	13,606	30.43%
Nuclear	21,952	49.09%
Renewable energies	9,159	20.48%
Total gross electricity production	44,717	100.00%

Carbon footprint from electricity production (g CO ₂ eq/kWh)	2017	2018
Mix in Catalonia	115	n/d
Mix on Iberian Peninsula	392	321

The carbon footprint in Catalonia for electricity production is lower due to the large presence of nuclear energy

Energy consumption



Waste

Separate collection	2016	2017	2018	%variation
2016-2018				
% separate collection	38.62%	39.88%	41.76%	8.14%
Daily generation of waste per capita (kg)	1.36	1.39	1.43	5.47%

Carbon footprint of municipal waste (t CO ₂ eq)	2017
Total emissions generated	1,717,449
Total emissions prevented	-902,643
Total carbon footprint	814,806

Figures for Catalonia 2019¹

Environment

	Catalonia	Spain	EU-28 ⁽¹⁾
Municipal waste. Generation			
Kg per capita and year	509	462	483
Kg per capita and day	1.40	1.27	1.32

Municipal waste. By treatment (kg/yr per capita)	Catalonia	Spain	EU-28 ⁽¹⁾
Dumping	166	248	118
Incineration	85	60	133
Recycling	152	84	141
Composting	51	71	78

Electricity from renewable energies

% versus total electricity consumption	Catalonia	Spain	EU-28 ⁽¹⁾
	16.4	36.6 (1)	29.6

(1) Data from 2016

Industry & energy

	Catalonia	Spain	EU-28 ⁽¹⁾
Industrial production rate			
Annual variation (%) ⁽¹⁾	4.0	3.2	3.1

Primary energy consumption (1000 TEP)^{(2) (3)}	Catalonia	Spain	EU-28 ⁽¹⁾
	23,198	116,681	1,607,754
Coal (%)	0.1	9.8	16.7
Oil and oil products (%)	44.4	42.1	34.3
Natural gas (%)	21.5	20.3	21.4
Nuclear energy (%)	25.9	12.7	14.1
Renewable and other energies (%)	8.0	15.2	13.5

Final energy consumption (1000 TEP)^{(2) (3)}	Catalonia	Spain	EU-28 ⁽¹⁾
	12,991	79,225	1,061,668
Industry (%)	27.3	25.3	25.8
Transport (%)	42.3	40.4	33.2
Domestic and other (%)	30.5	34.4	41.0

Energy consumption per capita (TEP/per capita)^{(2) (3)}	Catalonia	Spain	EU-28 ⁽¹⁾
	3.1	2.5	3.2

(1) IP adjusted for calendar effect

(2) Tonnes of oil equivalent

(3) Data from 2014