

The 140g CO₂/km limit

To tackle climate change, European carmaker members of ACEA (European Automobile Manufacturers' Association) entered in 1998 into a voluntary agreement with the European Commission setting 140g CO₂/km as an average emission level for all cars to be sold by 2008.

Climate criminals

More than one in every four cars (26%) displayed at the European motor show can be considered to be 'climate criminals'. Their emission level is at least 50% above the 140g CO₂/km limit. Of these cars, nearly one third emits more than double that amount (280g).

Table 1: Climate criminals – CO₂ emission > 210 g/km

This table (covering 2 pages) lists all the cars with CO₂ emissions that equal or exceed an emission of 210g CO₂/km. Thus they are at least 50% above the (non-achieved) goal of 140g CO₂/km, which was put forward in a voluntary agreement between the car industry and the European Commission in 1998. The amount of cars at the motor show with an emission rate higher than 210g CO₂/km is 17%.

Table 2: Climate criminals – CO₂ emission > 280 g/km

This table shows all the cars at the show that equal or exceed an emission of 280g CO₂/km and are therefore 100% above the (non-achieved) goal of 140g CO₂/km mentioned above. The amount of cars at the motor show with an emission rate higher than 280g CO₂/km is 9%.

Performance of European automakers (members of ACEA)

The average CO₂ emissions of the cars displayed by nearly all European automakers at the show exceeded 140g. Fiat, Renault, Dacia and Smart were the only brands with averages below this limit which ACEA members had set themselves.

Table 3: ACEA Performance – averages per member/brand

This table shows all of the European Automobile Manufacturers' Association's (ACEA) members, including the different car brands they represent, and the average CO₂ emissions and fuel consumption of their cars present at the European Motor Show in Brussels. The ACEA members have been ranked based on these average figures; the top one being the biggest 'gas-guzzler' and the bottom one being the most energy efficient.

Underneath the total figure of each member is the average emission and consumption data of all their brands shown at the event (also sorted in a descending order).

Please note that the following 'luxury brands' were left out of this calculation: Ferrari and Maserati (FIAT Group), Lamborghini and Bentley (VW Group).

Data gathering

On the first day of its opening the European Motor Show Brussels 2008 was visited by Greenpeace. Based on its own research and publications related to the show Greenpeace had listed 528 car models supposedly to be present at the event. After an intensive screening 469 models – which means approximately 90% - could be identified and their specifications were inventoried.

For a certain amount of cars particular data could not be collected: some car stands were only accessible for a 'select public' (on special invitation) like Bentley and Maserati, while another stands showed only specially designed and tuned cars (without any specification). Further there were also concept cars (not available on the market yet), race cars and cars with a (very) limited edition.

Obviously the data for these vehicles has not been taken into consideration when building up the final ranking and calculating the averages of emissions and fuel consumption. In the final calculations only the data of the identified models has been taken into account.

Nr.	Location	Brand	Type	CO2 (g/km)	Fuel cons. (l/100km)
1	Paleis 6	Nissan	Navara	276	10,2
2	Patio	Porsche	Carrera S911	275	14
3	Paleis 6	Subaru	B9 Tribeca	275	11,6
4	Paleis 6	Jeep	Grand Cherokee	272	10,3
5	Paleis 4	Landrover	Discovery 3	270	10,2
6	Paleis 8	Lexus	IS-F	270	11,4
7	Paleis 8	Toyota	Land Cruiser V8 VIP	270	10,2
8	Paleis 8	Toyota	Land cruiser V8 VX	270	10,2
9	Paleis 4	Jaguar	XK-cabrio	269	11,3
10	Paleis 8	Cadillac	CTS	264	11,1
11	Paleis 7	Lancia	Thesis	264	11,1
12	Paleis 10	Mercedes	GL320 CDI 4matic	264	10
13	Paleis 6	Nissan	Navara Double Cab	264	9,8
14	Paleis 8	Saab	9-3 Sport-Hatch Turbo X	263	11
15	Paleis 8	Lexus	LS 460	261	11,1
16	Paleis 4	Landrover	Range Rover Sport	256	10
17	Paleis 9	Mitsubishi	L200 2.5	254	8,7
18	Patio	Porsche	Boxster RS 60 Spyder	254	10,6
19	Paleis 6	Dodge	Nitro	250	9,4
20	Paleis 6	Dodge	Caliber street edition	250	9,4
21	Paleis 6	Jeep	Cherokee	250	9,4
22	Paleis 5	Volkswagen	Phaeton	248	9,4
23	Paleis 6	Chrysler	Grand Voyager	247	9,3
24	Paleis 3	Mazda	Mazda BT-50 4W	244	8,9
25	Paleis 9	Mitsubishi	New Pajero 3.2	244	9,2
26	Paleis 3	Mazda	Turbo Sport Mazda CX-7	243	10,2
27	Paleis 8	Toyota	Land cruiser VIP	243	9
28	Paleis 5	Volkswagen	Multivan	243	9,2
29	Paleis 10	Mercedes	R280 CDI	242	9,2
30	Paleis 8	Toyota	Land Cruiser VX	242	9
31	Paleis 5	Audi	S5	238	9,9
32	Paleis 8	Saab	9-5 Sedan	238	10
33	Paleis 7	Honda	S2000	237	10
34	Paleis 9	Isuzu	DMAX extended cab 3.0L LS	237	9
35	Paleis 9	Isuzu	DMAX double cab 3.0L LS	237	9
36	Paleis 9	Isuzu	DMAX 'The rock'	237	9
37	Paleis 8	Chevrolet	Captiva 4*4 sport	233	8,6
38	Paleis 3	Lada	Niva 4*4	233	9,5
39	Paleis 3	Ssangyong	Rexton New	233	11,6
40	Paleis 8	Saab	9-3 Convertible	232	9,7
41	Paleis 3	Mazda	Mazda3 hatchback	231	9,7
42	Paleis 6	Citroën	C6	230	8,7
43	Paleis 9	Mitsubishi	L200 intense canyon	230	8,7

Nr.	Location	Brand	Type	CO2 (g/km)	Fuel cons. (l/100km)
44	Paleis 5	Audi	A6 & Allroad	227	8
45	Paleis 5	Audi	All Road Quattro	227	8,6
46	Patio	Porsche	Cayman	227	9,5
47	Paleis 9	Hyundai	H-1 People	225	8,5
48	Paleis 4	Landrover	Freelander	224	8,5
49	Paleis 6	Citroën	C5 27 HDI	223	8,5
50	Paleis 4	Peugeot	607 executive	223	8,4
51	Paleis 9	Isuzu	DMAX double cab 3.0L LS 4WD	222	8,4
52	Paleis 3	Ssangyong	Rodius	222	8,7
53	Paleis 7	Alfa Romeo	Brera	221	9,4
54	Paleis 6	Subaru	Forester	220	9,3
55	Paleis 4	Suzuki	Bandit GV	220	9,1
56	Paleis 8	Lexus	LS 600h	219	9,3
57	Paleis 10	Mercedes	SLK 200K	218	9,1
58	Paleis 10	Mercedes	Viano CDI 2.2	218	8,2
59	Paleis 5	Opel	Vivaro	218	8,3
60	Paleis 5	Volvo	XC90	217	8,2
61	Paleis 7	BMW	BMW X5	216	8,2
62	Paleis 6	Nissan	Qashqai	216	8,1
63	Paleis 6	Nissan	X-trail	216	8,1
64	Paleis 7	Alfa Romeo	159 Sportwagen	215	8,1
65	Paleis 6	Chrysler	300C	215	8,1
66	Paleis 10	Mercedes	CLS 320 CDI	215	8,1
67	Paleis 8	Chevrolet	HHR 2.4LT	214	9
68	Paleis 4	Jaguar	Sovereign	214	8,2
69	Paleis 8	Lexus	IS 250	214	9,1
70	Paleis 8	Lexus	LS 600hL	213	9,3
71	Paleis 9	Hyundai	Santa Fe Executive 4WD auto	212	8,1
72	Paleis 8	Toyota	RAV4 VIP	212	9
73	Paleis 2	Ford	Minibus 330	211	8
74	Paleis 9	Hyundai	Santa Fe Colorado	211	8
75	Paleis 7	BMW	BMW 730d	210	7,9
76	Paleis 9	Hyundai	Tucson Arizona	210	8
77	Paleis 9	Isuzu	DMAX double cab 2.5L LS	210	8
78	Paleis 4	Suzuki	Grand Vitara	210	8,7

Nr.	Location	Brand	Type	CO ₂ (g/km)	Fuel cons. (l/100km)
1	Patio	Lamborghini	Murciélago LP640 Roadster	500	21,3
2	Patio	Ferrari	612 Scaglietti	470	20,5
3	Patio	Ferrari	599 GTB Fiorano	415	17,8
4	Paleis 8	Hummer	H2 6.2 V8	412	17,4
5	Patio	Lamborghini	Gallardo Superleggera	400	17
6	Paleis 2	Aston Martin	DB9 coupé	394	16,5
7	Paleis 2	Aston Martin	Aston Martin DBS	388	16,4
8	Paleis 8	Cadillac	Escalade	383	16,2
9	Paleis 8	Cadillac	STS-V	379	15,9
10	Paleis 7	Rolls Royce	Phantom Drophead Coupé	377	15,7
11	Paleis 4	Landrover	Range Rover Sport	374	15,9
12	Paleis 6	Jeep	Wrangler	362	9,9
13	Paleis 2	Aston Martin	V8 Vantage	360	15,1
14	Patio	Ferrari	F430 Scuderia	360	15,7
15	Patio	Ferrari	F430	355	15,3
16	Paleis 8	Corvette	Z06	350	14,7
17	Paleis 5	Audi	R8	349	16,8
18	Paleis 8	Hummer	H3 Adventure	348	14,6
19	Paleis 8	Hummer	H3 Luxury	348	14,6
20	Paleis 8	Maserati	Quattroporte Automatic	345	14,3
21	Paleis 8	Cadillac	SRX	332	14
22	Paleis 8	Maserati	Grand Turism	330	14,3
23	Patio	Porsche	911 Turbo Cabrio	328	13,7
24	Paleis 10	Mercedes	C 63 AMG Estate	327	13,7
25	Paleis 8	Corvette	Convertible	317	13,4
26	Paleis 8	Corvette	Coupé	317	13,4
27	Patio	Porsche	Cayenne GTS	310	12,9
28	Paleis 4	Landrover	Vogue SE	299	11,3
29	Patio	Porsche	GT2 911	298	12,5
30	Paleis 6	Nissan	Murano	295	12,3
31	Patio	Porsche	Cayenne 4S	295	13,8
32	Paleis 4	Landrover	Defender	291	11
33	Paleis 6	Subaru	Legacy	290	12,3
34	Paleis 7	Alfa Romeo	Spider	289	12,2
35	Paleis 6	Nissan	Patrol	288	10,8
36	Paleis 6	Jeep	Commander	284	10,8
37	Paleis 3	Mazda	Revolution Mazda RX-8	284	11,2
38	Paleis 6	Nissan	Pathfinder	283	10,5
39	Paleis 5	Volkswagen	Touareg	283	10,7
40	Paleis 5	Audi	Q7	282	10,2
41	Paleis 7	Honda	Legend	282	11,9
42	Paleis 9	Mitsubishi	New Pajero Instyle	280	10,6
43	Paleis 6	Nissan	350Z	280	11,7
44	Paleis 6	Nissan	350Z roadster	280	11,7

ACEA members	Brand	CO2 (g/km)	Fuel cons. (l/100km)
PORSCHE		283,86	12,43
	Porsche	283,86	12,43
FORD Group		200,98	7,74
	Landrover	272,57	10,63
	Jaguar	216,50	8,48
	Volvo	166,45	6,11
	Ford	148,40	5,74
TOYOTA Group		184,26	7,53
	Lexus	209,90	8,85
	Toyota	158,63	6,21
GM Group		178,20	7,04
	Saab	198,88	7,94
	Chevrolet	174,07	6,94
	Opel	161,67	6,25
VOLKSWAGEN Group		172,74	6,71
	Audi	210,09	8,30
	Volkswagen	181,75	6,94
	Seat	154,36	5,99
	Skoda	144,76	5,62
FIAT Group		168,85	6,96
	Alfa Romeo	207,33	8,30
	Lancia	161,43	6,46
	Fiat	137,78	6,13
DAIMLER		158,02	6,33
	Mercedes	202,54	7,92
	Smart	113,50	4,75
BMW Group		156,51	6,21
	BMW	170,64	6,60
	Mini	142,38	5,83
PSA Group		156,01	5,92
	Citroën	156,71	5,91
	Peugeot	155,32	5,94
Renault Group		131,55	4,91
	Dacia	132,50	5,00
	Renault	130,60	4,82