

Press release

## **Climate protection just a lot of hot air – Global CO2 emissions at record levels**

Muenster - Global CO2 emissions in 2008 rose to 31.5 billion metric tons, up from 30.9 billion metric tons in 2007. German renewable energy industry institute IWR announced that this is the tenth time in a row that record levels have been achieved. Yet, at the same time, worldwide more than 120 billion euros were invested in renewable energy plants (electricity, heat, fuel) last year.

"The level of direct investment in renewable energy plants worldwide needs to at least quadruple to approximately 500 billion euros each year to slow down the increasing demand for fossil fuels and stabilize global CO2 emissions," states IWR Director Dr. Norbert Allnoch. One way to achieve this goal is to link climate-damaging emissions to investments in renewable energies to a greater extent. "The higher the CO2 emissions, the higher the investment in renewable energies that should be put forward by the respective country," contends Dr. Allnoch.

The comprehensive CO2 emission ranking by country and the necessary levels of investment for the individual countries can be found in the Monthly Report "Renewable Energy Industry". Table global 2008 CO2 emissions and renewable energy investment plan (next page) for the two scenarios:

- a) 10 Euro / t (total global investment a year: 315 billion euros)
- b) 20 Euro / t (total global investment a year: 630 billion euros)

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# Renewable Energy Industry

## Monthly Report 08/2009


**Global CO<sub>2</sub> emissions 2008 and renewable energy investment plan** (Source: IWR Research)

	Country	1990 CO <sub>2</sub> (Mill. t)	2008 CO <sub>2</sub> (Mill. t)	Change 1990-2008 (%)	Kyoto-Goal 2012 (%)	RE-Investment Plan (Billion Euro per year)	
						[10 €t]	[20 €t]
1.	China	2452	6809.7	+178	-	68.1	136.2
2.	USA	5461	6369.8	+ 17	-7*	63.7	127.4
3.	Russia	2369	1687.6	- 29	0	16.9	33.8
4.	India	626	1408.5	+125	-	14.1	28.2
5.	Japan	1179	1391.5	+ 18	- 6	13.9	27.8
6.	Germany	1029	857.3	- 17	- 21	8.6	17.2
7.	South Korea	257	663.5	+ 158	-	6.6	13.3
8.	Canada	485	658.3	+ 44	- 6	6.6	13.2
9.	Great Britain	625	581.8	- 6	- 12.5	5.8	11.6
10.	Iran	199	513.5	+ 158	-	5.1	10.3
11.	Saudi-Arabia	242	490.7	+ 103	-	4.9	9.8
12.	Italy	440	482.8	+ 10	- 6.5	4.8	9.7
13.	South Africa	329	481.8	+ 46	-	4.8	9.6
14.	Mexiko	283	458.1	+ 62	-	4.6	9.2
15.	Brazil	246	439.5	+ 79	-	4.4	8.8
16.	France	416	428.0	+ 3	0	4.3	8.6
17.	Australia	279	381.6	+ 37	+ 8	3.8	7.6
18.	Spain	238	380.0	+ 60	+ 15	3.8	7.6
19.	Indonesia	151	376.7	+ 149	-	3.8	7.5
20.	Taiwan	136	340.0	+ 150	-	3.4	6.8
21.	Poland	382	337.9	- 12	- 6	3.4	6.8
22.	Ukraine	757	327.2	- 57	0	3.3	6.5
23.	Turkey	142	295.1	+ 108	-	3.0	5.9
24.	Nethetrlands	219	262.6	+ 20	- 6	2.6	5.3
25.	Thailand	88	253.5	+ 188	-	2.5	5.1
26.	Kazakhstan	250	207.8	- 17	-	2.1	4.2
27.	UAE	76	194.2	+ 156	-	1.9	3.9
28.	Egypt	92	192.0	+ 109	-	1.9	3.8
29.	Belgium & Luxembourg	140	182.8	+ 31	- 7.5; -28	1.8	3.7
30.	Singapore	73	175.6	+ 141	-	1.8	3.5
31.	Argentina	104	171.0	+ 64	-	1.7	3.4
32.	Venezuela	105	170.0	+ 62	-	1.7	3.4
33.	Pakistan	65	165.3	+ 154	-	1.7	3.3
34.	Malaysia	67	152.4	+ 127	-	1.5	3.0
35.	Uzbekistan	133	125.5	- 6	-	1.3	2.5
36.	Czech Republic	168	123.4	- 27	- 8	1.2	2.5

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						[10 €t]	[20 €t]
37.	Greece	81	109.3	+ 35	+ 25	1.1	2.2
38.	Algeria	74	100.2	+ 35	-	1.1	2.0
39.	Rumania	169	93.8	- 44	- 8	0.9	1.9
40.	Hong Kong (to China)	41	77.9	+ 90	-	0.8	1.6
41.	Kuwait	26	74.8	+ 188	-	0.7	1.5
42.	Austria	61	74.2	+ 22	- 13	0.7	1.5
43.	Philippines	40	73.5	+ 84	-	0.7	1.5
44.	Chile	34	70.5	+ 107	-	0.7	1.4
45.	Portugal	46	64.9	+ 41	+27	0.6	1.3
46.	Belarus	111	64.7	- 42	-	0.6	1.3
47.	Hungary	71	60.4	- 15	- 6	0.6	1.2
48.	Colombia	52	59.6	+ 15	-	0.6	1.2
49.	Turkmenistan	36	57.3	+ 59	-	0.6	1.1
50.	Katar	17	56.3	+ 231	-	0.6	1.1
51.	Sweden	61	55.1	- 10	+ 4	0.6	1.1
52.	Finland	52	54.4	+ 5	0	0.5	1.1
53.	Denmark	56	53.6	- 4	- 21	0.5	1.1
54.	Bulgaria	75	52.8	- 30	- 8	0.5	1.1
55.	Bangladesh	17	52.3	+ 208	-	0.5	1.0
56.	Switzerland	45	44.8	- 0,4	- 8	0.5	0.9
57.	Ireland	27	44.2	+ 64	+ 13	0.4	0.9
58.	Norway	35	41.5	+ 19	+ 1	0.4	0.8
59.	Slovakia	55	40.8	- 26	- 8	0.4	0.8
60.	New Zealand	29	39.0	+34	0	0.4	0.8
61.	Peru	20	33.8	+ 69	-	0.3	0.7
62.	Ecuador	13	30.2	+ 132	-	0.3	0.6
63.	Azerbaijan	60	30.1	- 50	-	0.3	0.6
64.	Lithuania	37	17.3	- 53	- 8	0.2	0.3
65.	Iceland	2	3.4	+ 70	+ 10	0.03	0.07
-	Rest Middle East	182	356.9	+ 96	-	3.6	7.1
-	Rest Africa	188	277.4	+ 48	-	2.8	5.5
-	Rest South-/Central America	157	262.8	+ 67	-	2.6	5.3
-	Rest Asia & Pacific	176	256.6	+ 46	-	2.6	5.1
-	Rest Europe & Eurasia	301	189.9	- 37	-	1.9	3.8
	<b>World</b>	<b>22,682</b>	<b>31,511.2</b>	<b>+ 39</b>	<b>- 5.2</b>	<b>315.1</b>	<b>630.2</b>

\*The U.S. took part in the Kyoto negotiations but did not ratify the treaty.

Source : IWR Research 2009, Data: BP Statistical Review, EU, UNFCC; IWR, BMWi