

# EEA activities in the area of climate mitigation

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# Climate mitigation related work at EEA

- Evaluating the application of EU Emissions Trading Scheme

- Climate change indicators

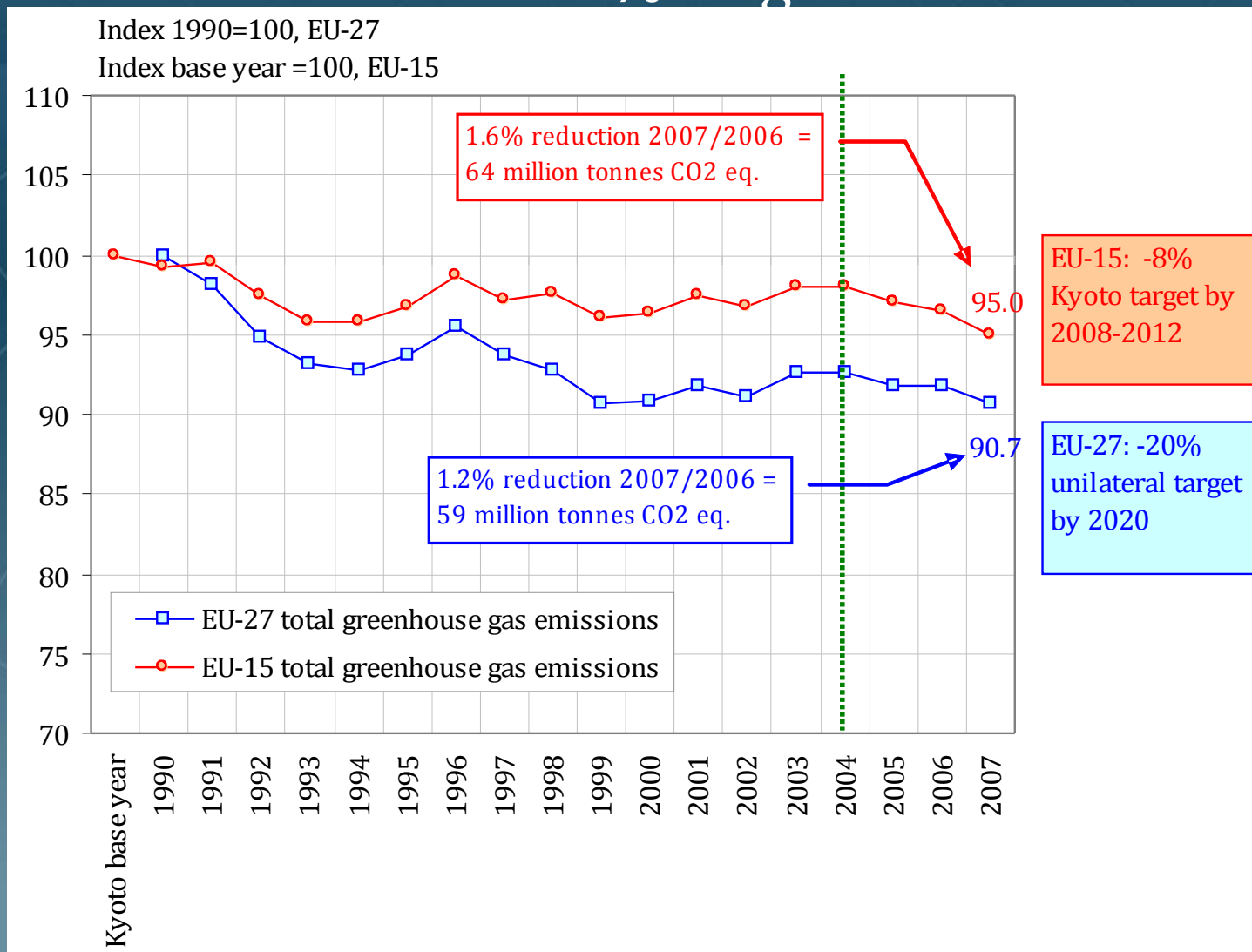
- The post-2012 process
- Tracking negotiations
- Post 2012 scenarios

- EC's official GHG inventory submission to UNFCCC

- Tracking progress towards targets – Kyoto Protocol – 2020 targets



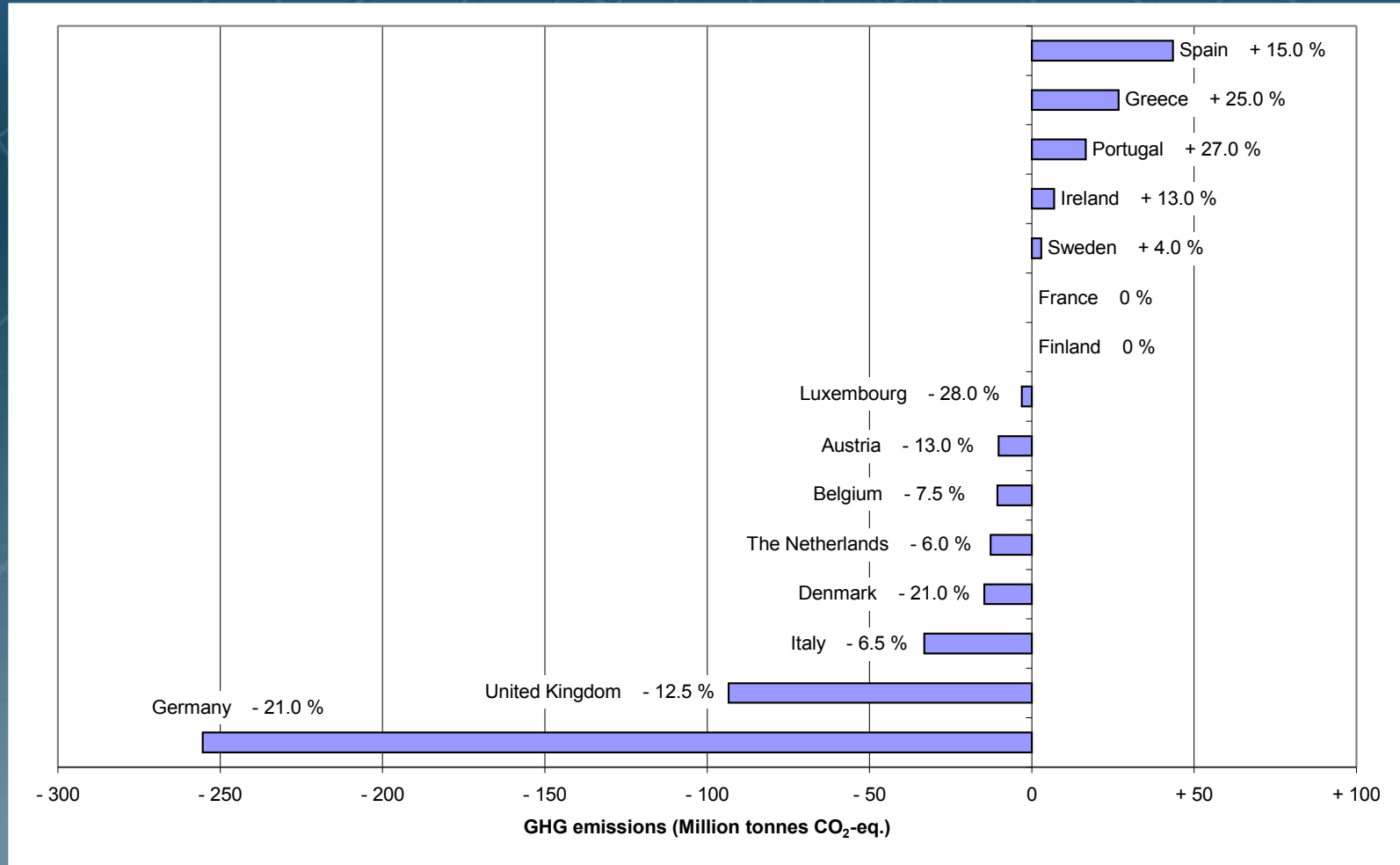
# EU15 has a -8% target under Kyoto and EU27 has a taken on a unilateral-20% target for 2020



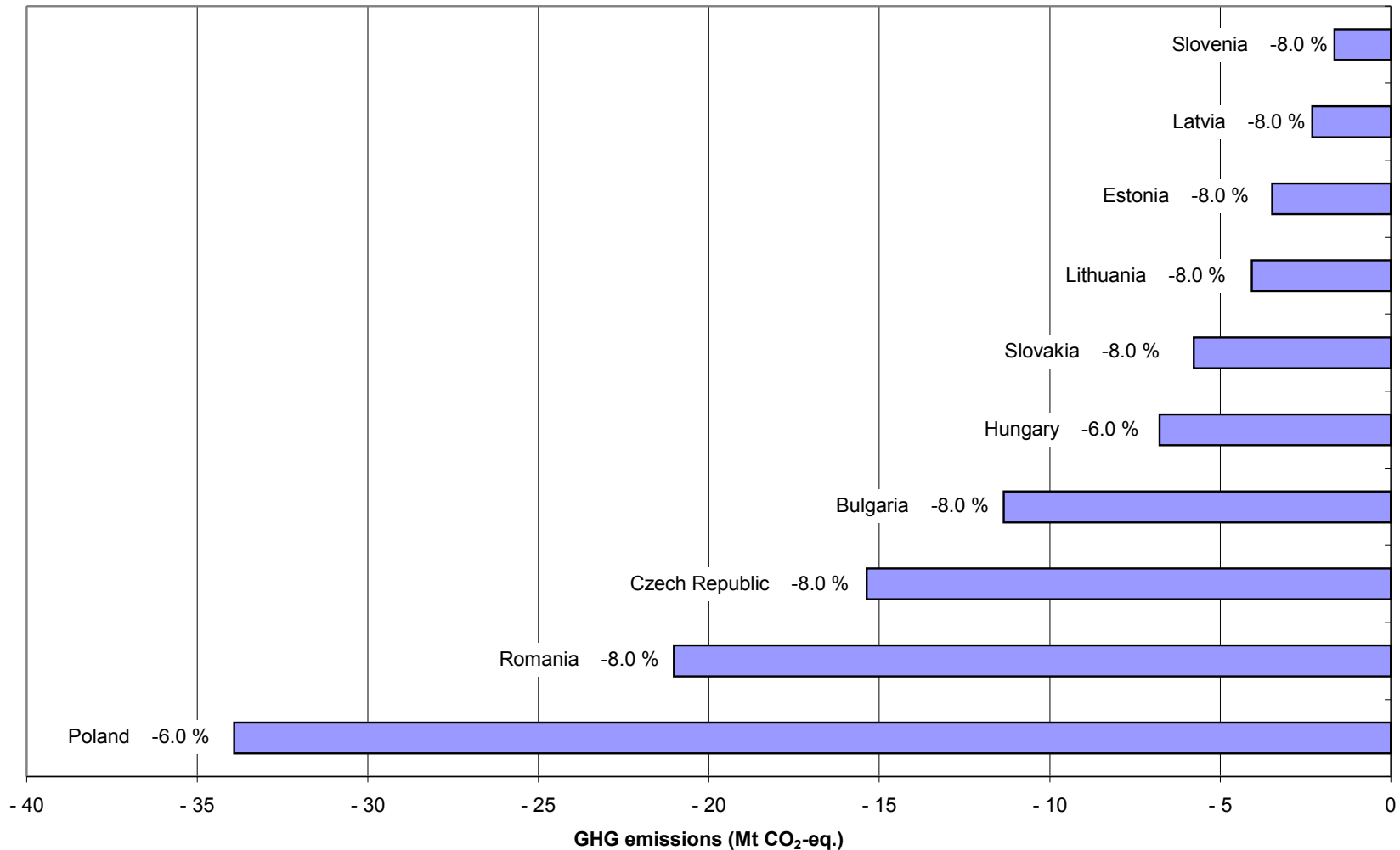
Source: EEA.



# EU Member States have individual Kyoto targets EU law summing up to -8% reduction for EU15



# Ten of the Member States that joined EU 2004 and 2007 has individual targets under the Kyoto Protocol for



# Greenhouse gas emissions excluding LULUCF (CO<sub>2</sub> equivalents) and Kyoto Protocol targets for 2008–12

MEMBER STATE	1990	Kyoto Protocol base year <sup>(a)</sup>	2007	Change 2006–2007	Change 2006–2007	Change 1990–2007	Change base year–2007	Targets 2008–12 under Kyoto Protocol and "EU burden sharing"
	(million tonnes)	(million tonnes)	(million tonnes)	(million tonnes)	(%)	(%)	(%)	(%)
Austria	79.0	79.0	88.0	-3.6	-3.9%	11.3%	11.3%	-13.0%
Belgium	143.2	145.7	131.3	-5.3	-3.9%	-8.3%	-9.9%	-7.5%
Denmark	69.1	69.3	66.6	-4.4	-6.2%	-3.5%	-3.9%	-21.0%
Finland	70.9	71.0	78.3	-1.6	-2.0%	10.6%	10.3%	0.0%
France	562.6	563.9	531.1	-10.6	-2.0%	-5.6%	-5.8%	0.0%
Germany	1215.2	1232.4	956.1	-23.9	-2.4%	-21.3%	-22.4%	-21.0%
Greece	105.6	107.0	131.9	3.8	2.9%	24.9%	23.2%	25.0%
Ireland	55.4	55.6	69.2	-0.5	-0.7%	25.0%	24.5%	13.0%
Italy	516.3	516.9	552.8	-10.2	-1.8%	7.1%	6.9%	-6.5%
Luxembourg	13.1	13.2	12.9	-0.39	-2.9%	-1.6%	-1.9%	-28.0%
Netherlands	212.0	213.0	207.5	-1.0	-0.5%	-2.1%	-2.6%	-6.0%
Portugal	59.3	60.1	81.8	-2.9	-3.4%	38.1%	36.1%	27.0%
Spain	288.1	289.8	442.3	9.3	2.1%	53.5%	52.6%	15.0%
Sweden	71.9	72.2	65.4	-1.5	-2.2%	-9.1%	-9.3%	4.0%
United Kingdom	771.1	776.3	636.7	-11.2	-1.7%	-17.4%	-18.0%	-12.5%
<b>EU-15</b>	<b>4232.9</b>	<b>4265.5</b>	<b>4052.0</b>	<b>-64.0</b>	<b>-1.6%</b>	<b>-4.3%</b>	<b>-5.0%</b>	<b>-8.0%</b>
Bulgaria	117.7	132.6	75.5	4.2	5.9%	-35.8%	-43.0%	-8.0%
Cyprus	5.5	Not applicable	10.1	0.2	1.6%	85.3%	Not applicable	Not applicable
Czech Republic	194.7	194.2	150.8	1.7	1.2%	-22.5%	-22.4%	-8.0%
Estonia	41.9	42.6	22.0	2.8	14.8%	-47.5%	-48.3%	-8.0%
Hungary	99.2	115.4	75.9	-2.9	-3.7%	-23.5%	-34.2%	-6.0%
Latvia	26.7	25.9	12.1	0.4	3.5%	-54.7%	-53.4%	-8.0%
Lithuania	49.1	49.4	24.7	1.9	8.1%	-49.6%	-49.9%	-8.0%
Malta	2.0	Not applicable	3.0	0.07	2.3%	45.7%	Not applicable	Not applicable
Poland	459.5	563.4	398.9	-0.4	-0.1%	-13.2%	-29.2%	-6.0%
Romania	243.0	278.2	152.3	-1.6	-1.0%	-37.3%	-45.3%	-8.0%
Slovakia	73.3	72.1	47.0	-2.0	-4.1%	-35.9%	-34.8%	-8.0%
Slovenia	18.6	20.4	20.7	0.2	0.7%	11.6%	1.8%	-8.0%
<b>EU-27</b>	<b>5564.0</b>	<b>Not applicable</b>	<b>5045.1</b>	<b>-59.4</b>	<b>-1.2%</b>	<b>-9.3%</b>	<b>Not applicable</b>	<b>Not applicable</b>



# Summary of key messages for this year's GHG inventory

- EU emissions falling for third consecutive year
- Emissions fell in 17 EU countries: Germany 40% of reduction
- Main reduction in CO<sub>2</sub>, but HFCs increased (cooling devices)
- Much lower emissions from households, international transport still growing
- Lower use of oil and gas for direct heating in households
- Increasing temperature in Europe, faster in winter (2007 warmer than 2006)
- Actual heat demand in Europe going down
- Fuel prices for households increasing rapidly (oil and gas)
- Germany: High fuel price expectations and sales in 2006 and warm year 2007



# EU Commitments up to 2020

- 20% GHG reduction by 2020 compared to 1990
  - Independent commitment
  - 30% GHG reduction by 2020 compared to 1990  
(In context of international agreement)
- 20% renewable share of final energy consumption by 2020
- 10% bio fuels in transport, with
  - production being sustainable
  - second generation bio fuels commercially available





**GHG Target:  
-20% compared to 1990**



**-14% compared to 2005**

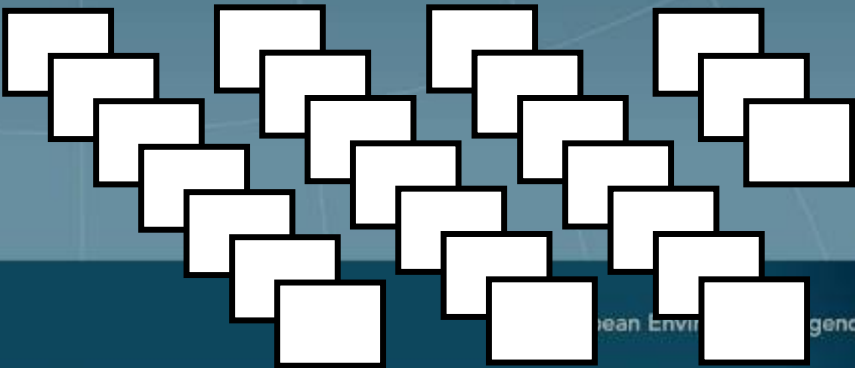


**EU ETS  
-21% compared  
to 2005**

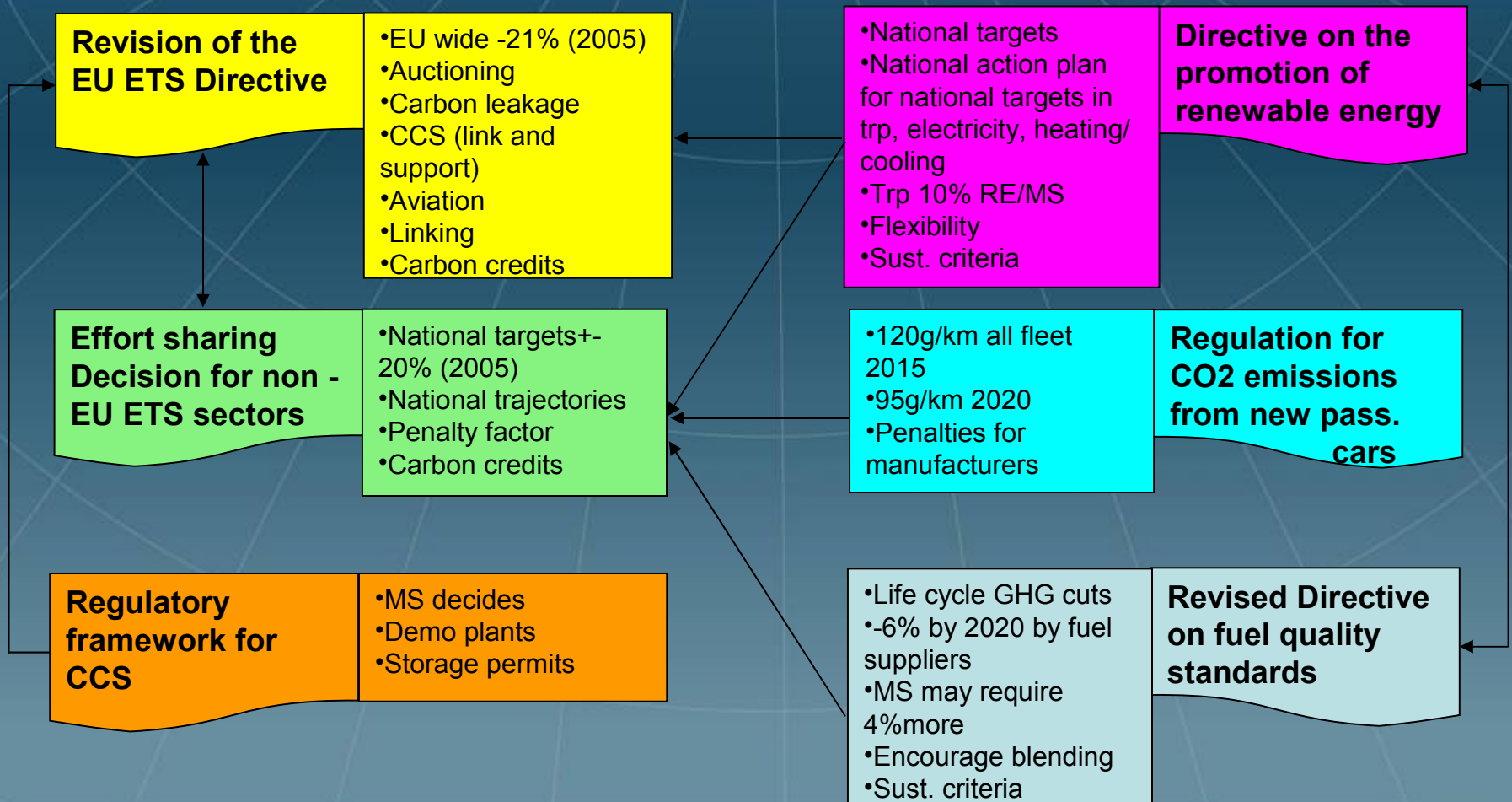
**Non ETS sectors  
-10% compared to 2005**



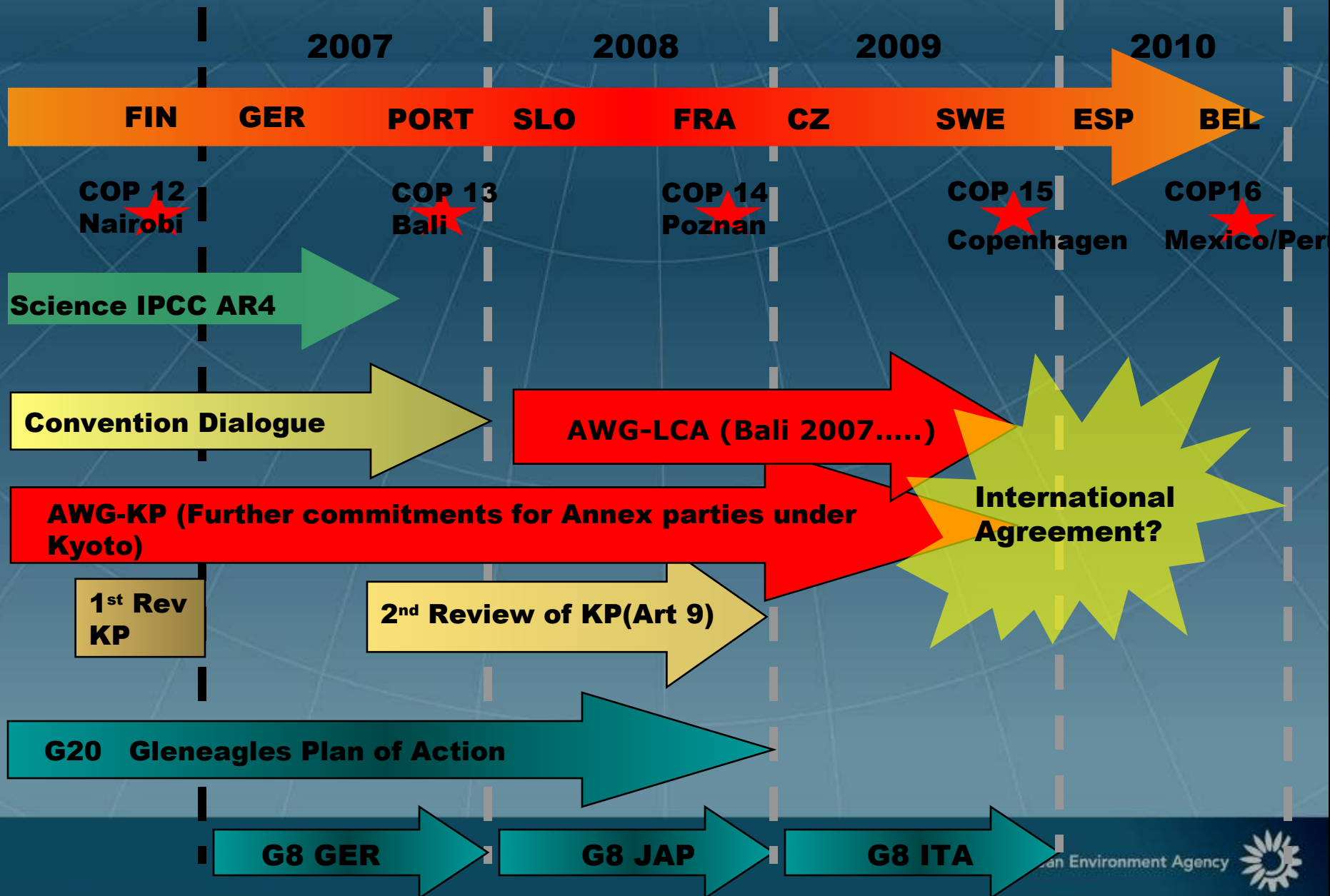
**27 Member State targets, stretching from -20% to +20%**



# What's in the Climate and energy package?



# The Roads to Copenhagen



# Important UNFCCC meetings this year

- Bonn 1: 29 March- 8 April
- Bonn 2: 1-12 June
- Bonn 3: 10-14 August (informal)
- Bangkok: 28 September- 9 October
- Barcelona: 2-6 November
- Copenhagen: 7-18 December
- Detailed calendar on

[http://unfccc.int/meetings/unfccc\\_calendar/items/](http://unfccc.int/meetings/unfccc_calendar/items/)



# More info on...

- European Council website:  
<http://www.consilium.europa.eu/>
- Czech Presidency <http://www.eu2009.cz/en/>
- Swedish Presidency: <http://www.se2009.eu/>
- European Parliament:  
[http://www.europarl.europa.eu/ee2009/news\\_public\\_en.htm](http://www.europarl.europa.eu/ee2009/news_public_en.htm)
- European Commission: [http://ec.europa.eu/index\\_en.htm](http://ec.europa.eu/index_en.htm)
  - DG ENV: [http://ec.europa.eu/dgs/environment/index\\_en.htm](http://ec.europa.eu/dgs/environment/index_en.htm)
- UNFCCC: <http://unfccc.int/2860.php>



*Thank you for your attention!*

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web site:*

*[www.eea.europa.eu](http://www.eea.europa.eu)*

