

EU Climate and Energy Policy for 2030

Egmont / Development Group High Level Conference 10 November 2015 Jos DELBEKE Director General for Climate Action European Commission

> Climate Action



IPCC - Intergovernmental Panel on Climate Change (2013)

- Warming of the climate systems is unequivocal and observed changes are <u>unprecedented</u> on scales of decades to millennia.
- <u>Human influence on the climate system is clear.</u>
- Continued emissions of greenhouse gases will cause further warming and changes to the atmosphere, land and oceans <u>in all regions</u> of the globe.
- Limit climate change to <u>2°C</u> compared to preindustrial level



Mitigation measures



More efficient use of energy

Greater use of low-carbon and no-carbon energy

Many of these technologies exist today



• Reduced deforestation and improved forest management and planting of new forests

Bio-energy with carbon capture and storage

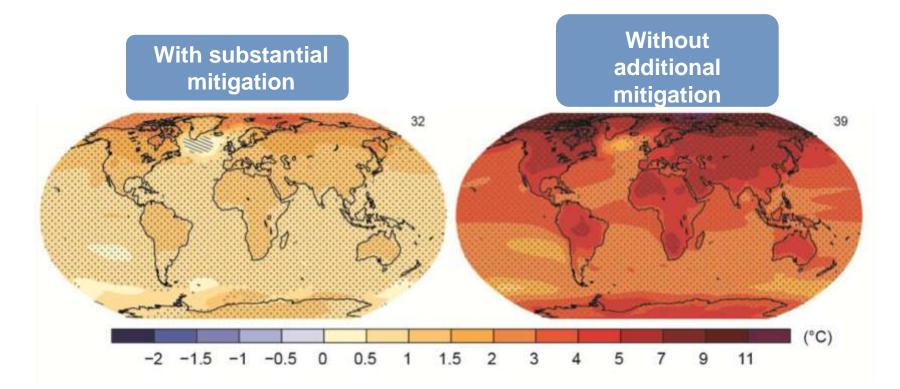


Lifestyle and behavioural changes

Climate Action Source : IPCC AR5 Synthesis report



The choices we make will create different outcomes



Change in average surface temperature (1986–2005 to 2081–2100)

Source : IPCC AR5 Synthesis report





• 1992 – Rio 'World Summit'

UNFCCC – UN Framework convention on climate change

• 1997 – Kyoto

Kyoto Protocol

Divide developed / developing countries

• 2015 – Paris

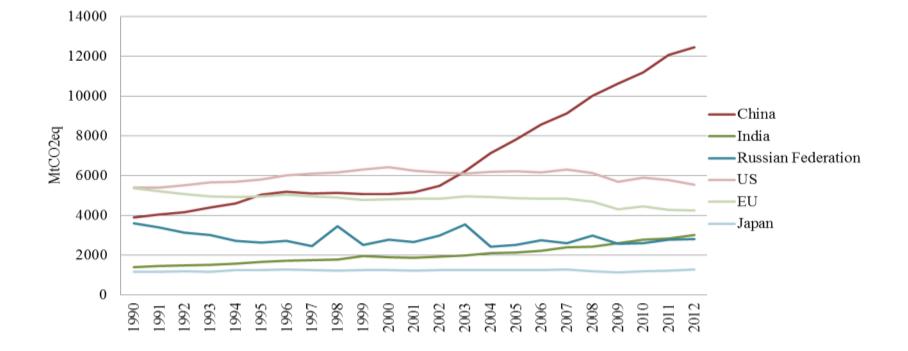
Recognition that the world has changed

Also a change in UN approach ?

Hybrid between 'top down' and 'bottom up' ?



Emissions of major economies, 1990-2012 (all greenhouse gases, all sources & sinks)

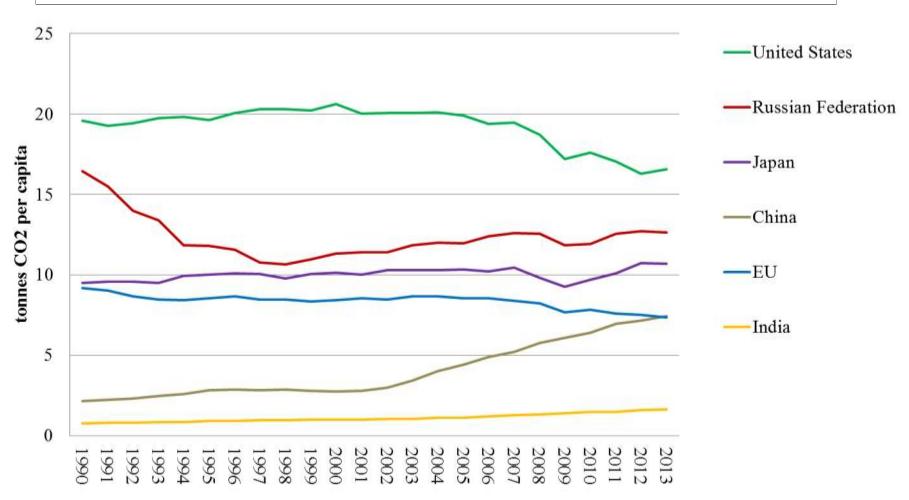


(Source: historical emissions data: inventories data to the UNFCCC (http://unfccc.int/national_reports/)

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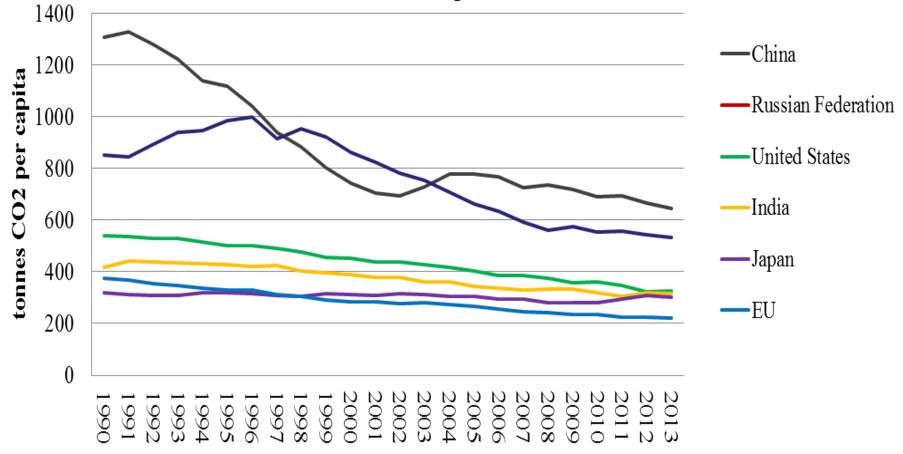
C02 emissions per capita



Source : CO2 emissions per capita from fossil-fuel use and cement production, trends in global CO2 emissions, 2014 Report, PBL, JRC



CO2 emissions per unit of GDP





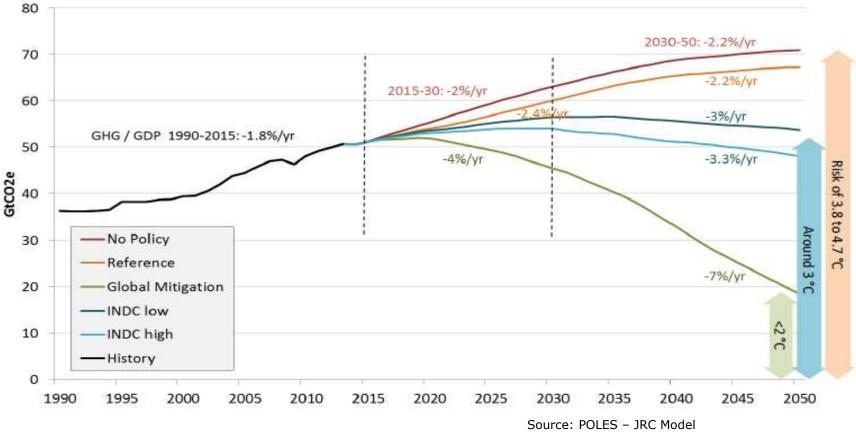
Road to Paris : Climate Policy Pledges (INDCs)



- INDCs submitted representing around 90% of global GHG emissions
- Over 150 countries
- UNFCCC Secretariat Synthesis Report by 01.11.2015
- Rather 3° instead
 of 2°C outcome



World emissions (GtC02e, total excluding sinks) and percent change in emission intensity per unit of GDP



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What the EU expects Paris to deliver



- Fair, ambitious and legally binding agreement with targets for all Parties
- Transparency and accountability through robust common rules
- 5 yearly reviews

RISZ

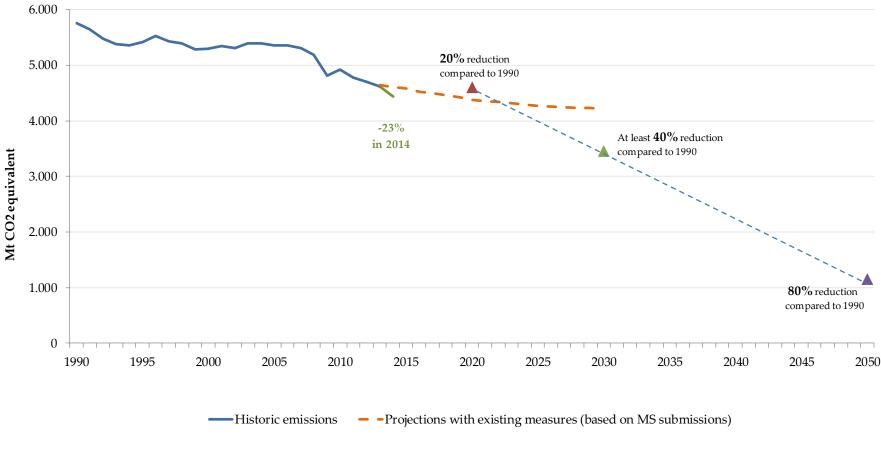
COP21.CMP11

• International support for low carbon, climate resilient sustainable development





Total EU GHG emissions trends and projections



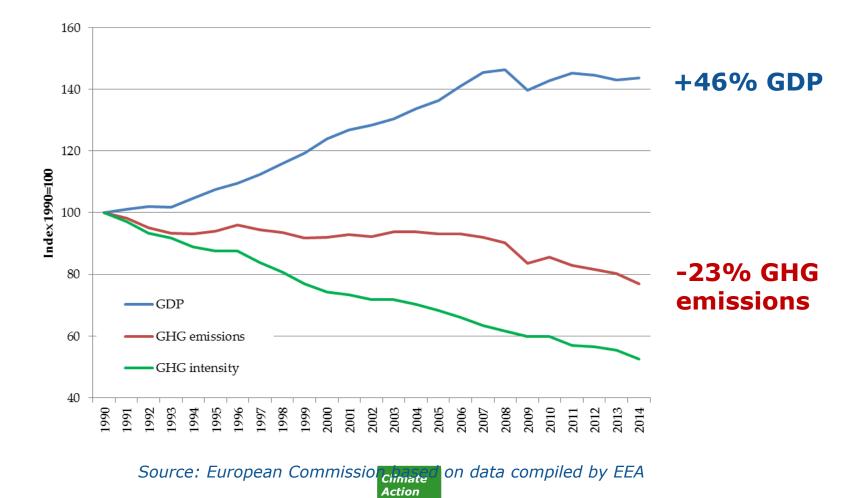
Climate

Action

12 Source: EEA, Commission

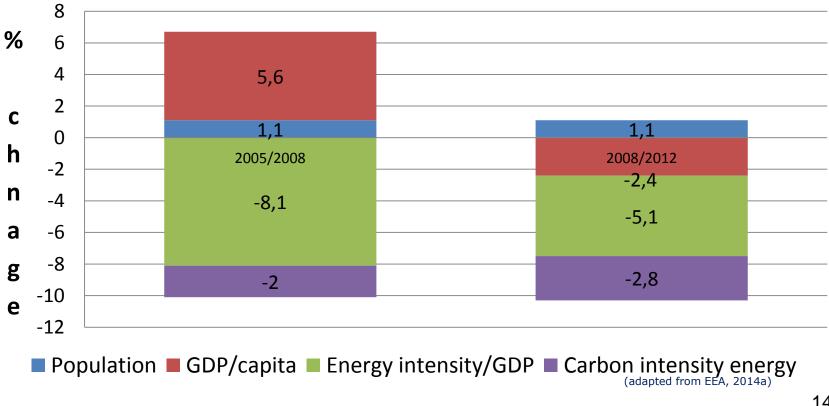


EU policies delivering





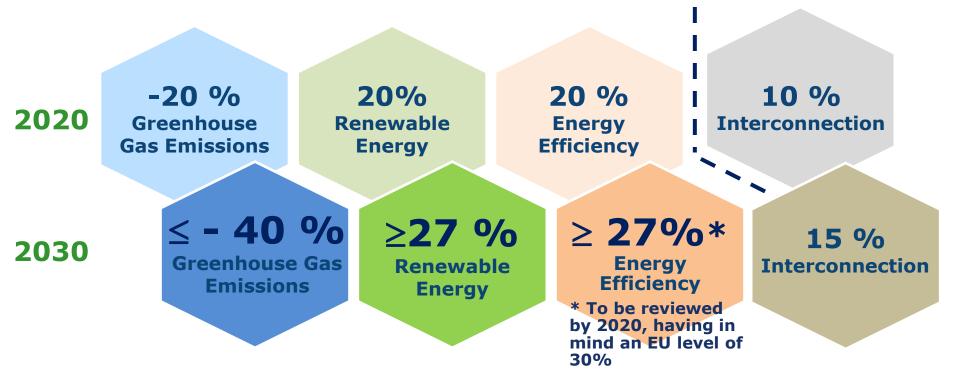
Why EU CO2 emissions changed (2005 - 2012)



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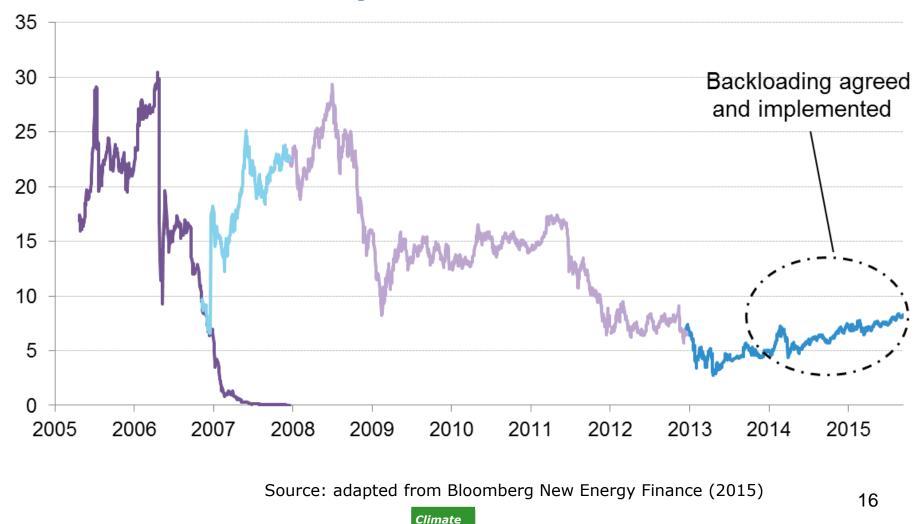


2030 Framework for Climate and Energy





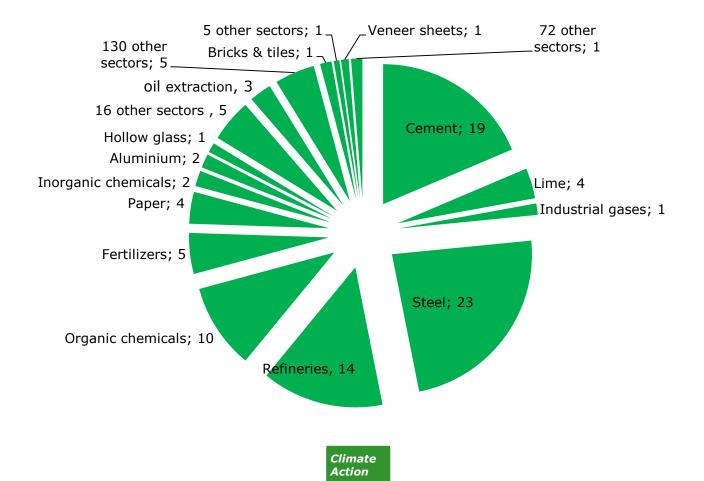
The European carbon market



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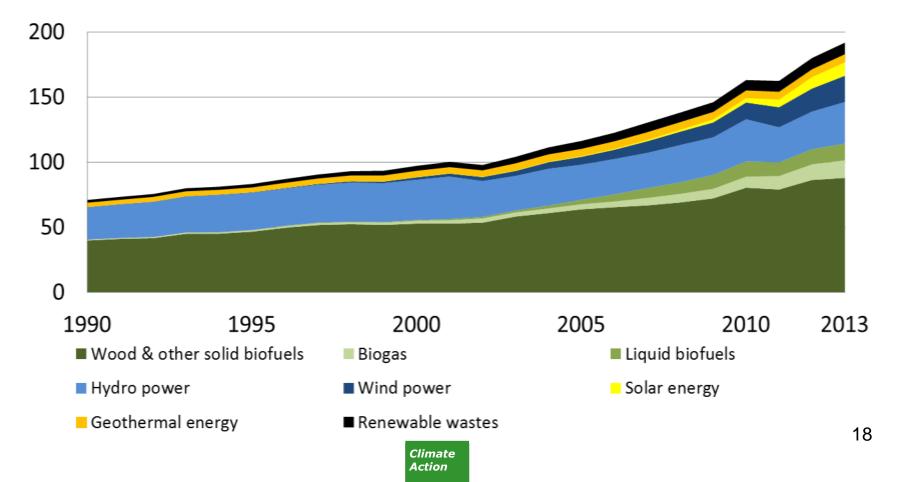


Share of free allocation (%) based on carbon leakage list 2015-2019





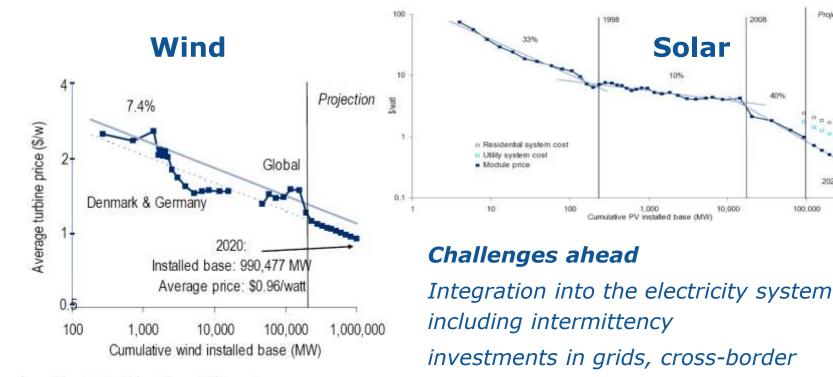
Development renewable energy use in the EU by type of renewable (Mtoe)(EUROSTAT)





Renewables policies contribute to reduce technology cost

infrastructure,



Source: Bloomberg New Energy Finance, Citi Research

need for cost-efficient support schemes 19 Climate Action

1.000

Projection

202

100.000

1.12

1.000.000

2008

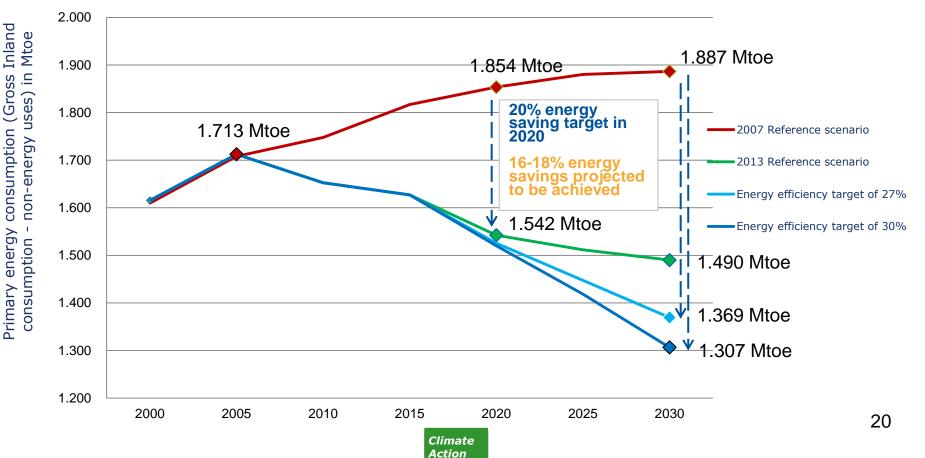
10,000

Solar



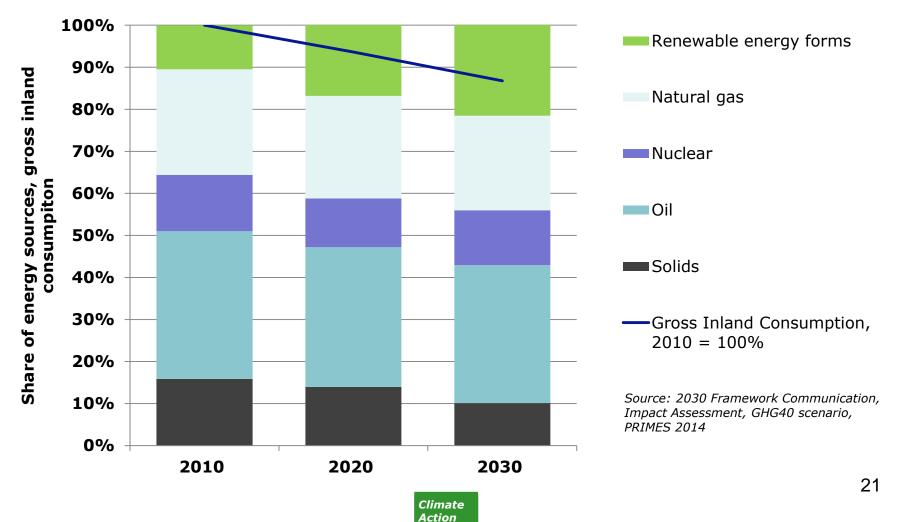
Energy efficiency: EU 2030 target: at least 27% of energy savings

2020 and 2030 energy savings targets



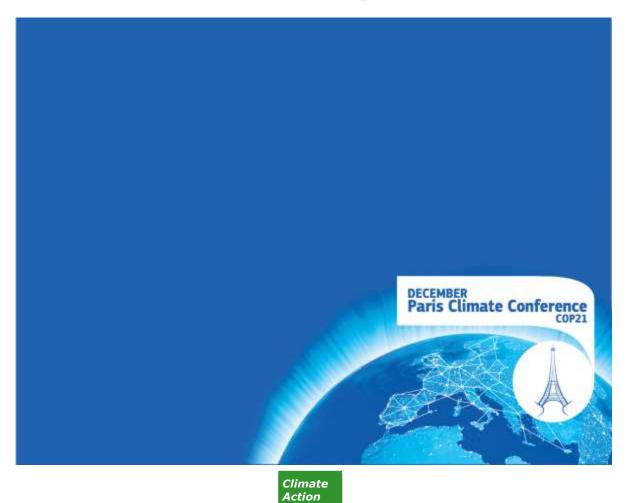


Energy Mix





Thank you!



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