

Implementing Paris: Delivering the EU's "at least 40% GHG reduction" by 2030

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Climate Action

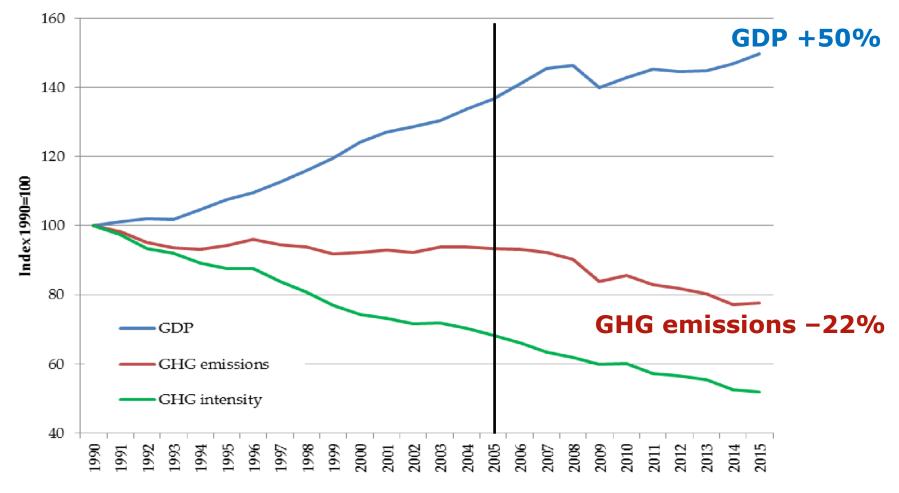


Outline

- 1. Overview
- 2. Economy-wide climate initiatives: Emissions trading, effort sharing, and land use
- 3. Sectoral legislation: Energy (renewables, energy efficiency, electricity market), transport, waste, fluorinated gases
- 4. Enabling environment
- 5. Outlook

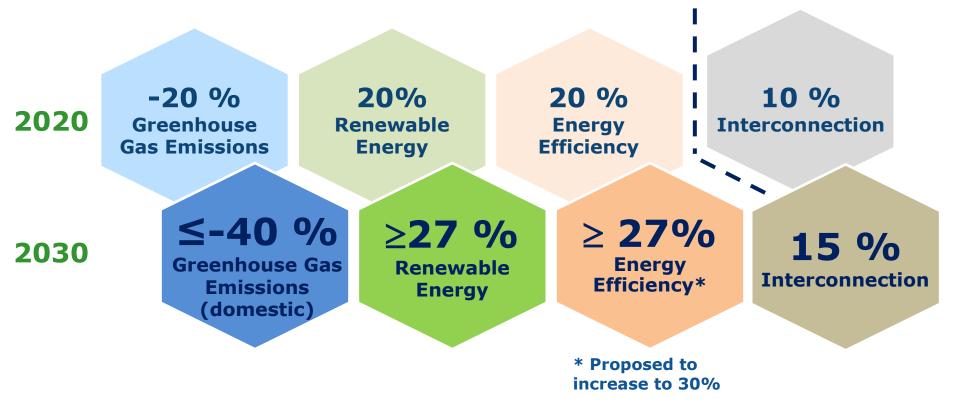


State of Play: Decoupling EU economic growth from EU GHG emissions, 1990 - 2015





At least 40% emission reductions compared to 1990... Achieved by a coherent set of climate and energy targets





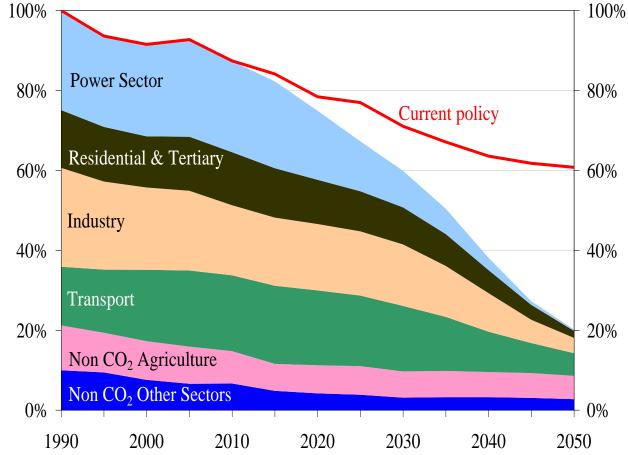
...getting the EU on track to well below 2 degrees Celsius

80% domestic reduction in 2050 is feasible:

- With currently available technologies,
- If all economic sectors contribute to a varying degree & pace.

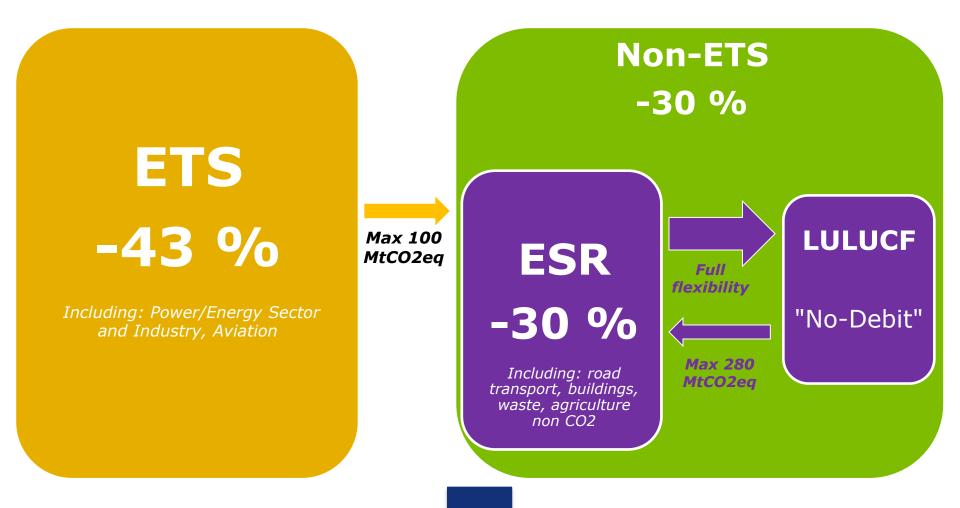
Efficient pathway and milestones:

- -25% in 2020
- -40% in 2030
- -60% in 2040



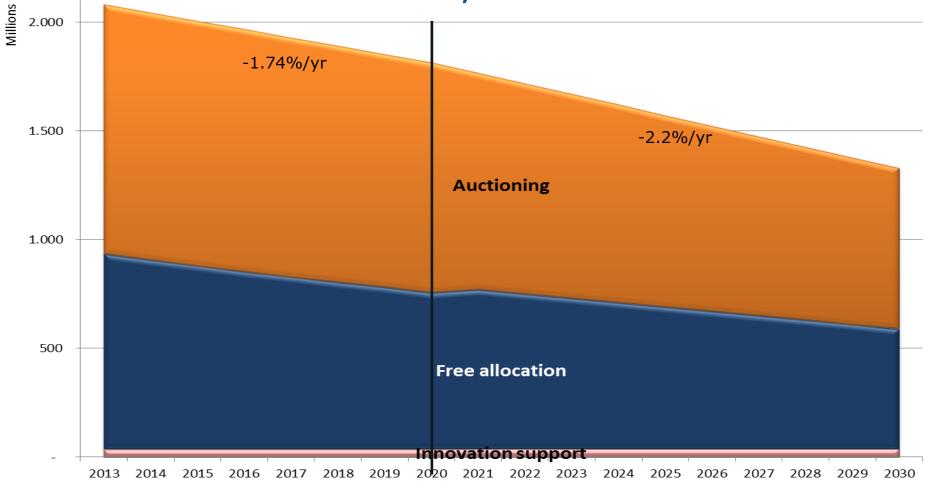


Proposed overarching EU climate policy architecture

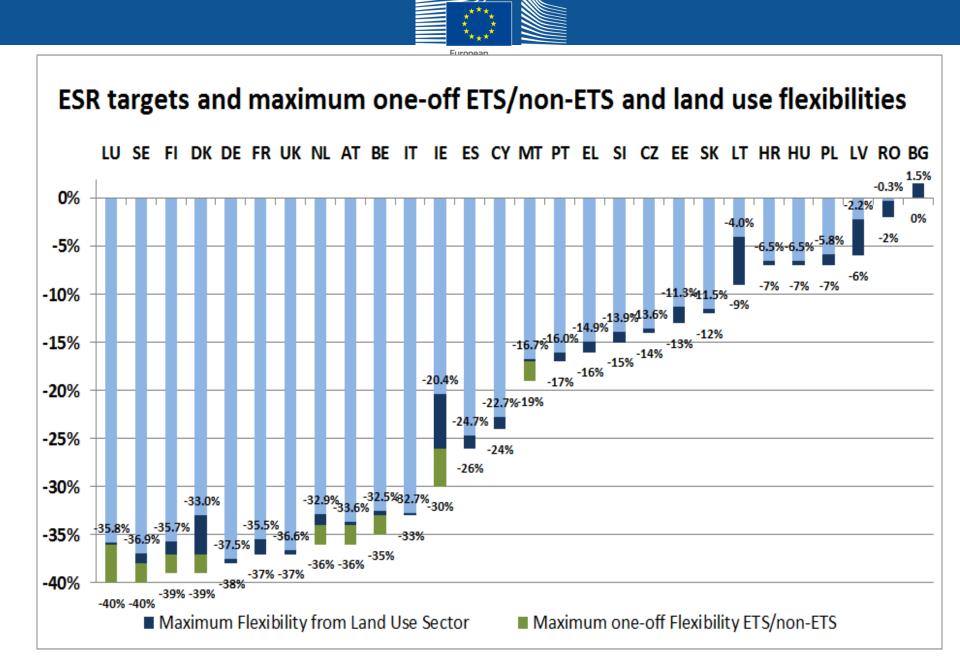




Proposed emissions trading system (ETS): Auctioning, free allocation, innovation



■ Innovation support ■ Free allocation ■ Auctioning





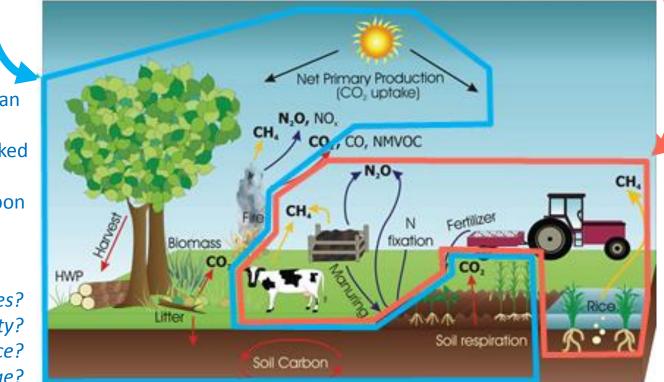
Proposed land use: "No debits" rule

Land Use, Land Use Change and Forestry (LULUCF): mainly CO₂

AGRICULTURE *non-CO*₂ (CH₄, N₂O) – in the ESR

Partly human induced (strongly linked to global natural carbon cycle)

Uncertainties? Additionality? Permanence? Leakage?



Mainly humaninduced

=> More readily quantifiable



Energy (1) Making energy more secure, affordable and sustainable

Annual State of the Energy Union

Clean Energy for All Europeans Package: a number of legislative proposals

Energy Directive)



(Governance Regulation)



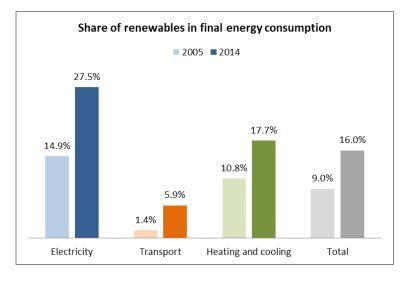
Energy (2): Renewables' state of play

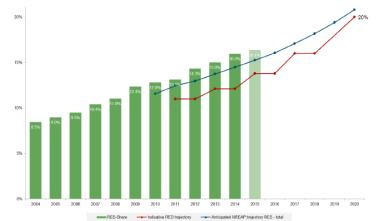
Achievements

- drove down costs key technologies (PV, wind)
- accelerated deployment strong impact on investments patterns
- important effects in terms of emission reductions

Challenges ahead

- EU as technology provider ("renewable no. 1")
- Network development as enabler for RES penetration
- Market integration







Energy (3): State of play on energy efficiency

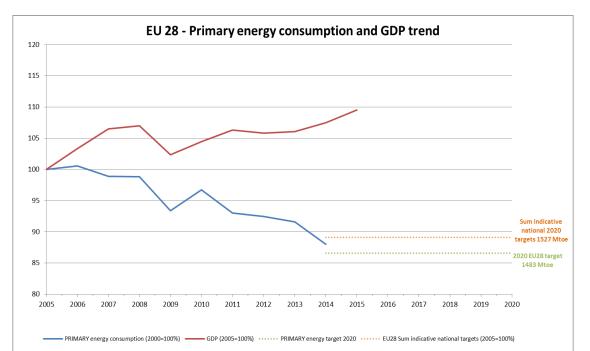
Achievements

- Comprehensive policy framework (EED, EPBD, Ecodesign,...)
- Significant progress towards 2020 target
- CO2&cars (130g/km in 2015, 95g/km in 2021)
- energy efficiency standards

 (light bulbs, appliances, electric motors...) & energy labelling
 (domestic appliances)

Challenges ahead

- large untapped potential, e.g. existing buildings
- finance
- electrification (long term)





Energy (4): Accelerating energy efficiency

ACHIEVING THE BINDING 30% ENERGY EFFICIENCY TARGET BY 2030



- Binding 30% energy efficiency target for 2030;
- Create 400,000 new jobs;
- Reduce gas imports by 12% and save € 70 billion in fossil fuel imports.



- Clear vision for a decarbonised building stock by 2050;
- Smart & Efficient buildings (use of Information and Communication Technologies);
- Smart Finance for Smart Buildings initiative:

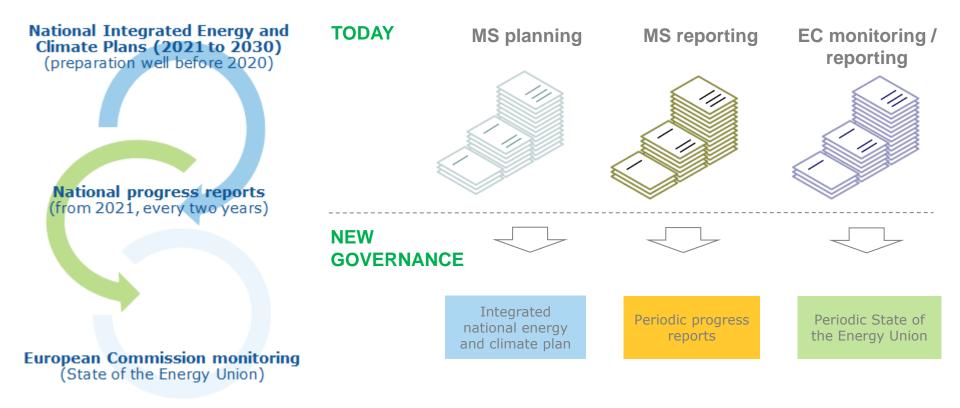


- List of new product groups;
- Outline on how ecodesign will contribute to circular economy objectives;



Energy (5): Governance

PROPOSAL TO STREAMLINE AND INTEGRATE ENERGY AND CLIMATE PLANNING AND REPORTING

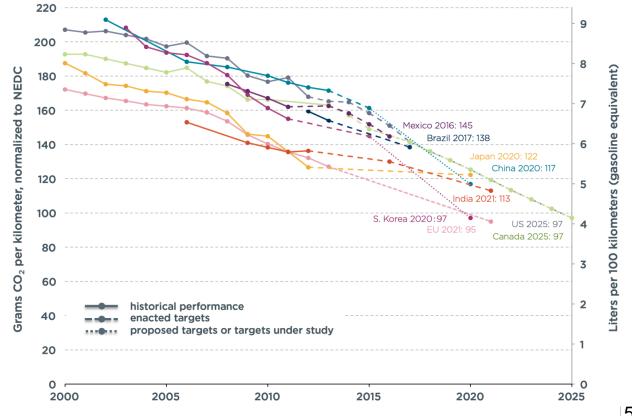


Synchronised with the Paris Agreement's review cycle



Transport: Efficient cars are spreading

Passenger car CO₂ emissions and fuel consumption, normalized to NEDC





5



Initiatives on low emission mobility

Low Emission Mobility Strategy (July 2016)

Europe on the move (May 2017), including

Proposal on Monitoring and Reporting of CO2 emissions from Heavy Duty Vehicles

Upcoming initiatives:

- Post-2020 CO2 emission standards for cars and vans (end 2017)
- New CO2 emission standards for heavy duty vehicles (1st half 2018)



Fluorinated greenhouse gases

Context

- F-gases (HFCs, PFCs and SF₆) are powerful greenhouse-gases with global warming effect of up to 23,000 times greater than the CO₂.
- Account to 2% of the EU's overall GHG emissions and have risen by 60% since 1990

In the EU

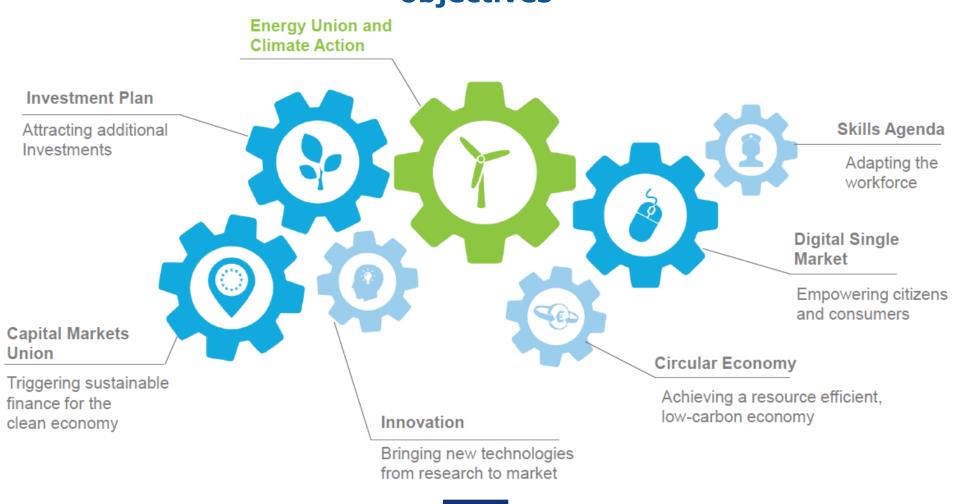
- Stabilized emissions at 2010 through first F-gas regulation (2006)
- New regulation to cut EU's F-gas emissions by 2/3 by 2030 compared to 2014

Global Action: 2016 Kigali Amendment to the Montreal Protocol introduced a mandatory phase-down of HFCs for developed and developing countries

- Developed countries to reduce to 15% of 2011-13 HFC levels by 2036
- Most developing countries (including China) to reduce to 20% of 2020-22 HFC levels by 2045; the rest (including India) to 15% of 2024-26 by 2047



Enabling environment (1): Integrating climate and energy objectives





Enabling environment (2): Financing the transition at EU level



- New Climate Action sub-programme under LIFE Programme
- NER300 Programme one of world's biggest demonstration programmes for low-carbon technologies
- ★ EU largest contributor of climate finance to developing countries (€17.6 bn in 2015)



Adaptation (1): 2013 EU Strategy

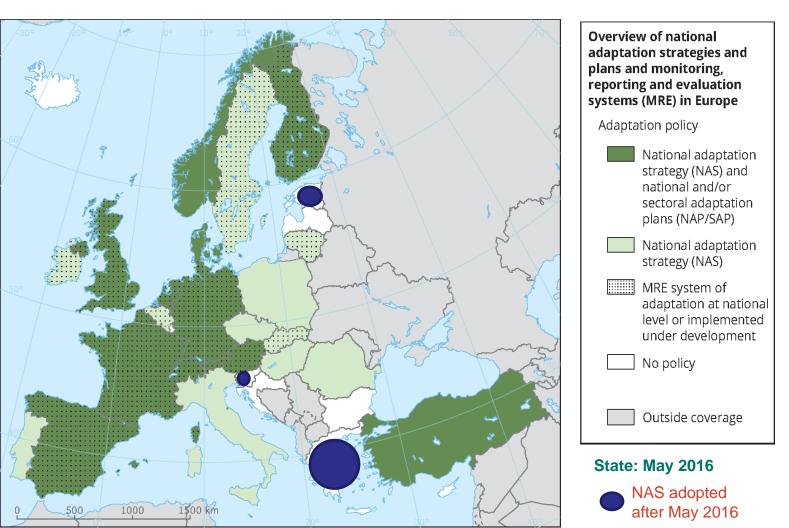
Priority	1: Promoting action by Member States	
Action 1.	Encourage MS to adopt Adaptation Strategies and action plans	
Action 2.	LIFE funding, including adaptation priority areas	
Action 3.	Promoting adaptation action by cities via the Covenant of Mayors initiative	- no
Priority 2	2: Better informed decision-making	
Action 4.	Address knowledge gaps through research	
Action 5.	Develop 'one-stop shop' platform for adaptation information in Europe: Climate-ADAPT	- Sub
Priority 3	3: Adaptation in key vulnerable sectors	
Action 6.	Climate proofing the Common Agricultural Policy, Cohesion Policy, and the Common Fisheries Policy	
Action 7.	Making infrastructure more resilient	1 mil 1
Action 8.	Promote products & services by insurance and finance markets	







Adaptation (2): Most European countries have developed national adaptation strategies and/or action plans



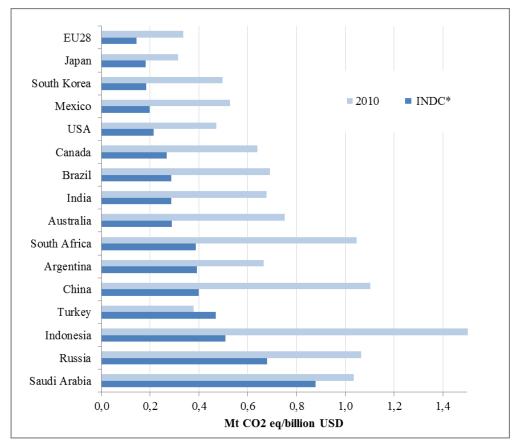


Outlook: Making the EU the most efficient and productive economy worldwide

Significant reduction of GHG intensity of EU economy

EU is one of the most GHG efficient major economies

EU is set to become the most GHG efficient economy in the G20 through the implementation of the 2030 climate and energy targets



Source: The emissions Gap Report 2016-2030 trends and ambition. UNEP, November 2016.





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