



2030 EU Climate and Energy Framework, the Energy Union and the review of the ETS

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Overview

- 1. Progress towards 2020 climate and energy objectives
- 2. 2030 Climate and Energy framework and the Energy Union
- 3. The EU ETS





Where do we stand now?

Progress towards 2020 energy and climate objectives



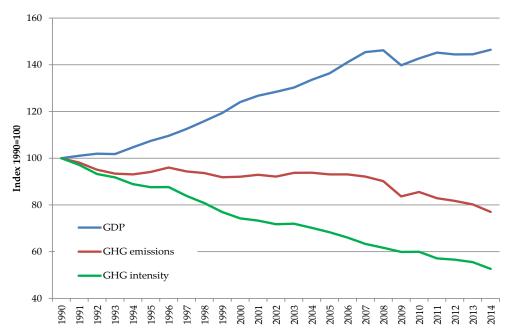
State of play: GHG emissions

Achievements

- Long term decoupling of GHG emissions from GDP growth
- Target for 2020 already achieved (-23% in 2014)
- EU-wide ETS market

Challenges ahead

- Fair and equitable effort sharing, while preserving cost-effective approach
- Restoring ETS as central instrument





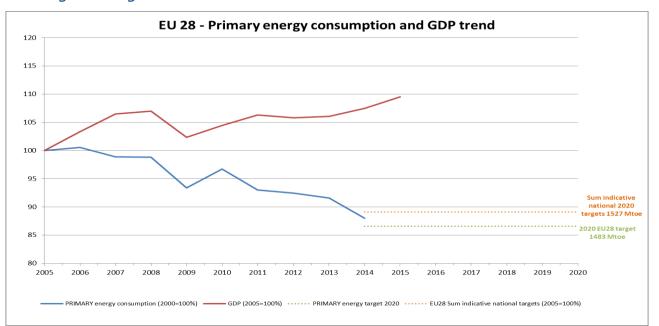
State of play: Energy Efficiency

Achievements

- •Comprehensive policy framework (EED, EPBD, Eco-design,...)
- •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, eg existing buildings
- finance
- electrification (long term)





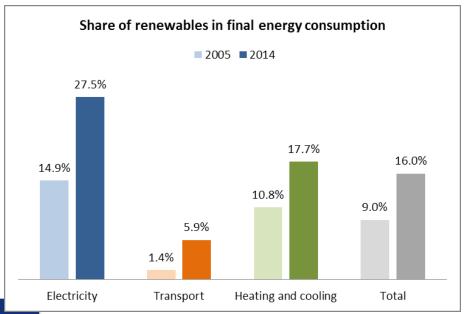
State of play: Renewables Policy

Achievements

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

Challenges ahead

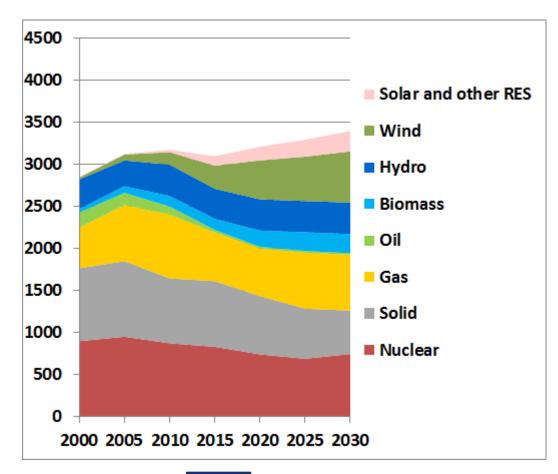
- •EU as technology provider ("renewable nr. 1")
- •Network development as enabler for RES penetration
- Market integration





Power generation mix in EU Reference

scenario

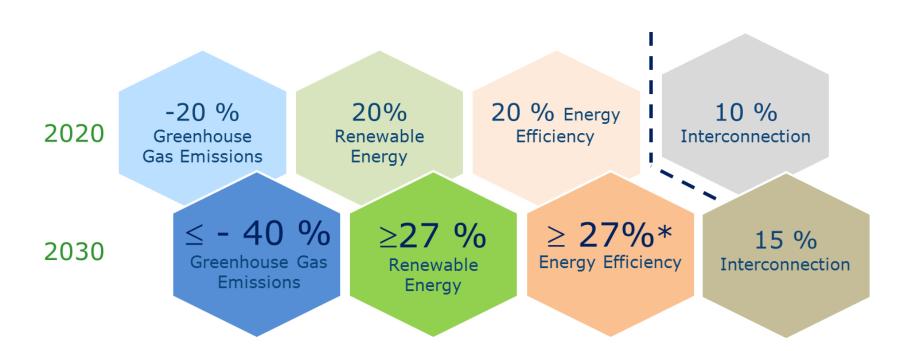




2030 Climate and Energy framework and the Energy Union



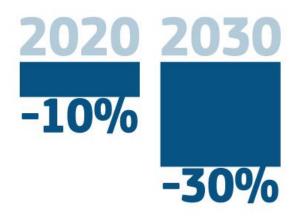
EU: 2030 Climate and Energy Framework



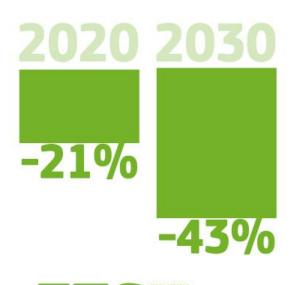


Domestic reductions in emissions from ETS and non-ETS sectors

EMISSION REDUCTIONS IN ETS AND NON-ETS COMPARED TO 2005









Upcoming policy initiatives under the Energy Union

2015

ETS review

2016

- Non ETS: MS targets and inclusion LULUCF in legal framework
- Transport decarbonisation
- Energy efficiency
- Electricity market design
- Renewables (including biomass, biofuels)
- Integrated climate and energy governance





The EU ETS



EU ETS in a nutshell

- Cap-and-trade system:
 - Each allowance represents the right to emit one tonne of CO2
 - Cap: Amount of allowances determines amount of emissions and guarantees environmental outcome
 - Trade: Scarcity and tradability of allowances determine price and ensure cost-effectiveness
 - covers ~12,000 energy-intensive installations across EU and aircraft operators; around 41% of EU CO2 emissions
- In recent years, large supply demand imbalance on the ETS market, with a build-up of a large surplus and reduced investment signalling function.
- Introduction of a Market Stability Reserve (automatic adjustment of supply from 2019, based on number of allowances in circulation).



Why it is important

- For environmental reasons:
 - guaranteed environmental outcome due to the cap
 - flagship of Europe's approach to achieve its targets
- For economic reasons:
 - achieving smooth transition to a low carbon economy through scarcity and price signal, technology neutral incentive
 - **liquid market**, on average around 26 million allowances traded each day on a number of exchanges
 - stable and predictable regulatory framework for businesses

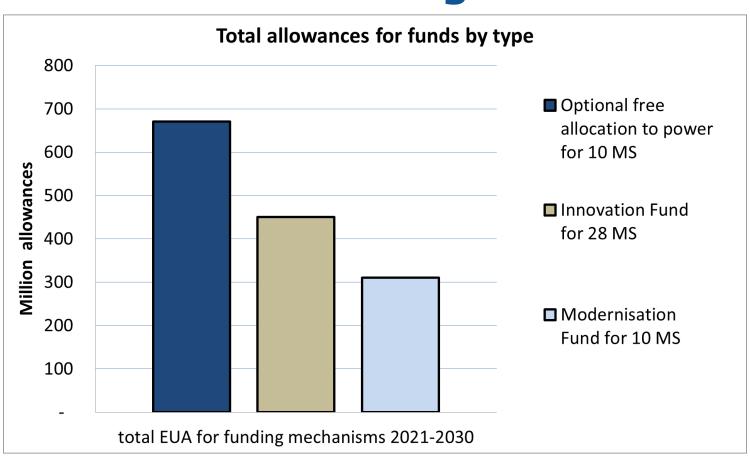


ETS revision proposal

- Environmental aspects:
 - Targets: At least 40% domestic emission reductions; ETS: 43%
 - Cap to decrease by 2.2 % from 2021 onwards
 - Auction share shall not decline → 57%
- Competitiveness aspects
 - Free allocation to continue, benchmarks to be updated, 2
 carbon leakage groups, more flexible production data



Low carbon funding mechanisms





Free allocation to the power sector

- Continue existing provisions for 10 lower income Member States
- Limited quantity up to 40% national auction budget
- Increased transparency: for investments
 as of 10Mio € Member States to set up a
 competitive bidding process



Innovation fund

- Support for low-carbon demonstration
- 400m allowances + 50m allowances from MSR, amount depending on carbon price
- For <u>carbon capture and storage</u>, innovative renewables
- New: also for low-carbon innovation in industrial sectors
- Increased maximum funding rate (60%)
- Possibility to receive funding when certain milestones are achieved



Modernisation fund

- 2% of ETS allowances (≈310 mio)
- Aim: modernise energy sector and energy efficiency
- For 10 lower income Member States with GDP per capita < 60% of EU average (2013)
- Distribution of funds among Member States agreed by European leaders
- Proposal sets out governance structure



Thank you!

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