



EU CCS Directive: Status of implementation & Review

**IEA 6th International CCS Regulatory Review
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Beatrice Coda-Senior Policy Officer
European Commission – DG CLIMA
Beatrice.Coda@ec.europa.eu

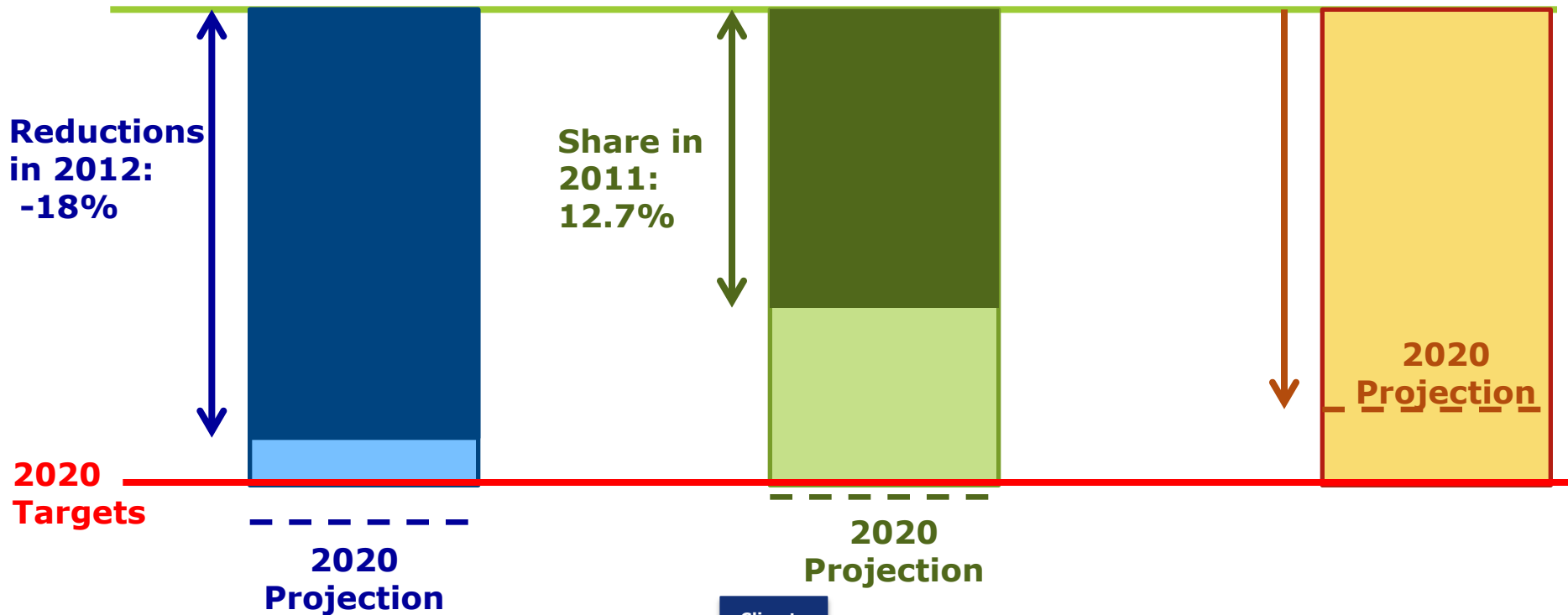
- 1. A 2030 Framework for Climate and Energy Policy**
2. Implementation of the CCS Directive
3. Review of the CCS Directive

Progress towards the 2020 goals

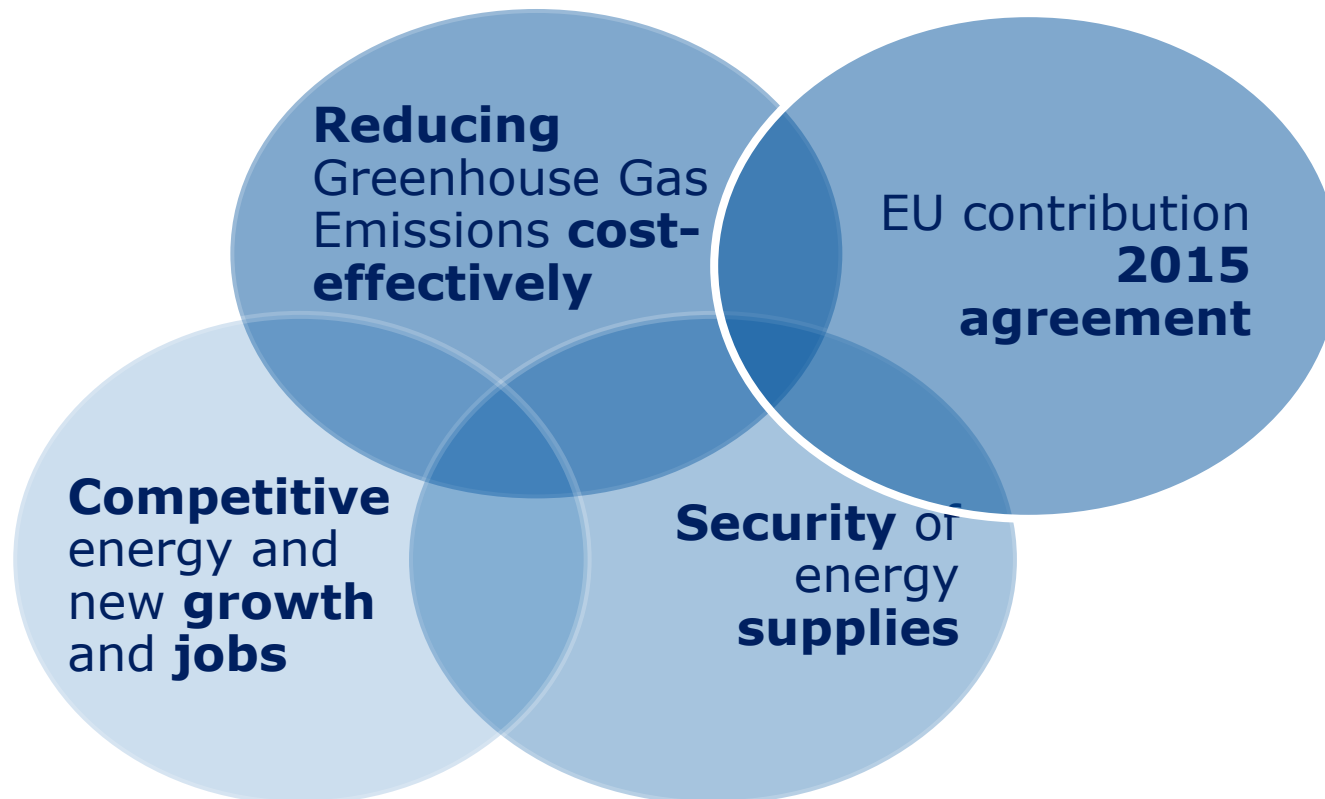
Reduce Greenhouse Gas Emissions levels by 20%

Increase share of Renewables to 20%

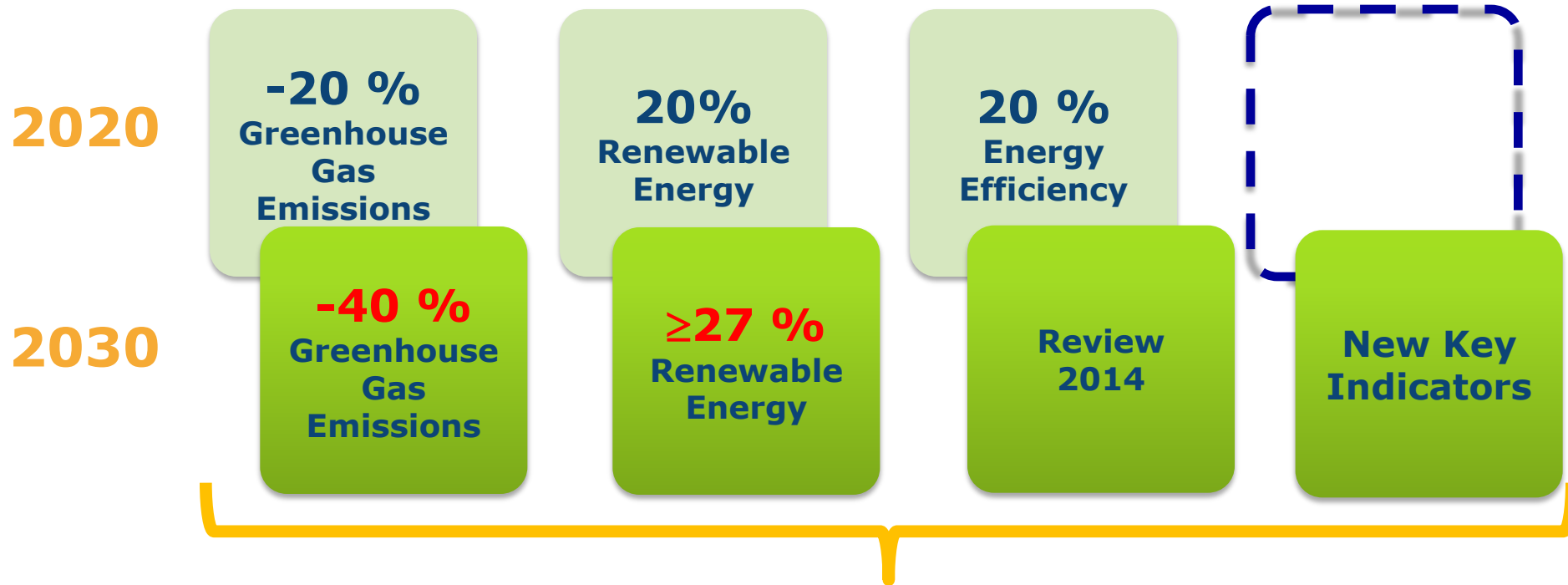
Reduce energy consumption by 20%



Why a new framework for 2030?



Main elements



New governance system (National plans for competitive, secure and sustainable energy)

CCS specific elements

- Significant emissions cuts are needed in the EU's energy and carbon-intensive industries. As theoretical limits of efficiency are being reached and process-related emissions are unavoidable in some sectors, **CCS may be the only option available to reduce direct emissions from industrial processes on the scale needed in the longer term. Increased R&D efforts and commercial demonstration are essential over the next decade.**
- In the power sector, **CCS could be a key technology for fossil fuel-based generation. MS with fossil reserves and/or high shares of fossil-fuels in their energy mix should support CCS** through the pre-commercialisation stage in order to bring down costs and enable commercial deployment by the middle of the next decade. To include development of an adequate CO₂ storage and transport infrastructure that could benefit from EU funding such as the Connecting Europe Facility.

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CCS Directive – state of transposition

- By 2013 all MS notified transposing measures
- Complete transposition in the majority of MS (incl. most CCS pioneers). Now conformity check
- 7 MS – partial non-communication of transposing measures
 - AT, CY, HU, IE, SE & SI: reasoned opinion in November 13
 - PL: reasoned opinion in April 14

Implementation report: general provisions

- Report from Commission to EP & Council on implementation of CCS Directive adopted in February 2014 (COM(2014) 99)
- Most MS:
 - New specific legislation + amendments
 - Multiple competent authorities (env; econ, ener & mining)
 - CO₂ storage allowed (but ban in FI, LU, AT, EE, IE, LV)
- Commission activities: transposition checks, permit review, guidance documents, IEG

Implementation report: specific provisions (1)

- Exploration mandatory in some MS.
Exploration permits in CZ, ES, FR, IT, PL, UK
- Draft storage permit from NL reviewed by Commission
- Some MS stricter
 - DE: inspections every year even after closure; annually saving 3% of CO₂ value for financial contribution
 - Transfer of responsibility 30/40 years after closure
 - CZ: financial contribution to cover 50 years of post-transfer monitoring

Implementation report: specific provisions (2)

- Financial guarantees:
 - Financial security as adequate insurance cover, escrow bank account, bank guarantee, parent company guarantee.
 - HU: security min HUF 200 million (EUR 671 000)
- Art 33 amending LCP Directive:
 - UK: additional guidance – no permit unless criteria met
 - Practical implementation in DE, FR, HU, PL, RO, SI & UK
- Some MS banning CO₂ storage transposed only Articles on CO₂ capture & transport

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Review of CCS Directive - intro

- Art 38 requests review report in March 2015
- REFIT exercise to assess effectiveness, relevance, efficiency, coherence and EU-added value
- Not only the mandatory Art 38 provisions, but consideration of broader EU energy & climate policy, CCS related policy & legislative activities by EU & MS
- Open-ended exercise

Roadmap of the Review

- External study in place:
 - Since 2 May: opening registration of stakeholders
 - Mid-May to mid-July: on-line consultation & interviews
 - 1st half of Sep: 1st stakeholder meeting
 - Early Dec: final recommendations
- Commission:
 - Tentatively March 2015: Commission report
 - If and where appropriate, followed-up by a proposal for revision or other CCS measures

More information

Evaluation by consultants:

<http://www.ccs-directive-evaluation.eu/>
CCSReview@tripleeconsulting.com

DG CLIMA:

<http://ec.europa.eu/clima/policies/2030/>
<http://ec.europa.eu/clima/policies/lowcarbon/ccs>
CLIMA-CCS-DIRECTIVE@ec.europa.eu

Thank you for your attention!