

ACER 4TH SCENARIO GUIDELINE WORKSHOP

Ensuring the alignment of scenarios with policy targets

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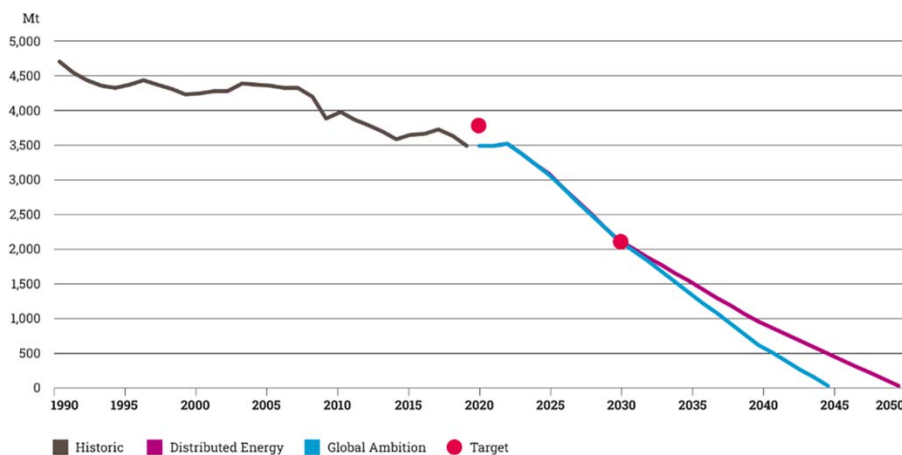
What are the EU's climate policy targets?

Art. 12: ... fully in line with the energy efficiency first principle and ***with the Union's 2030 targets for energy and climate and its 2050 climate neutrality objective*** and shall take into account the latest available Commission scenarios, as well as, when relevant, the national energy and climate plans...

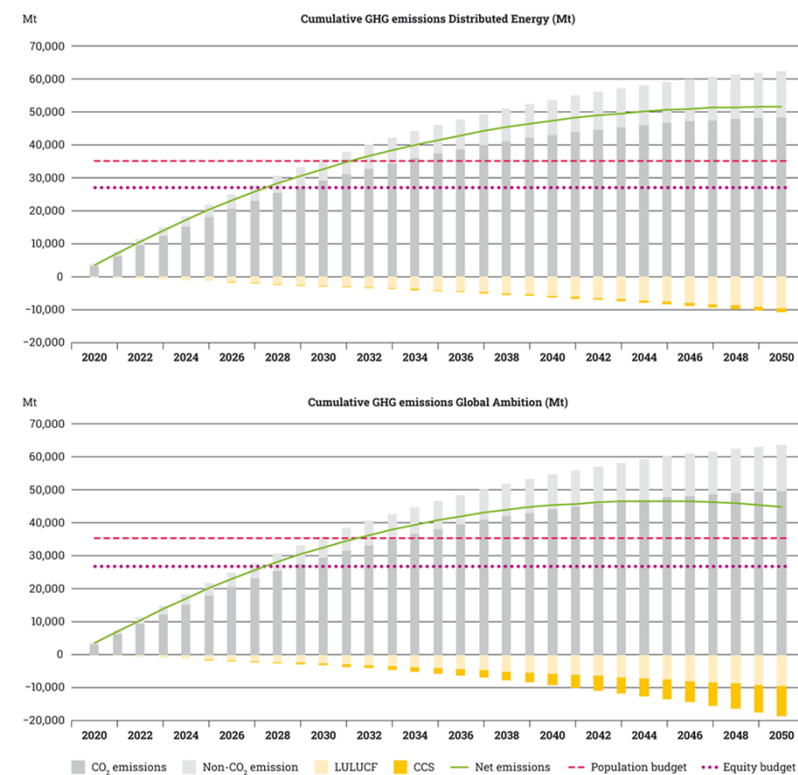
- 2030 targets -> higher ambitions of REPowerEU (or more ambitious national policies) to identify the energy infrastructure which needs to be in place to support the identified measures
- 2050 climate neutrality -> how is this interpreted?
Considered to be in line with the objectives of the Paris Agreement i.e. limiting global warming to well below 2°C and pursuing efforts to limit it to 1.5°C

2050 climate neutrality vs 1.5C compatibility

COP 21 scenarios meet the 2030 targets and reach carbon neutrality by 2050.



“It can be concluded that with the current pace of annual GHG emissions, an overshoot of the calculated budget seems unavoidable.”



What does 1.5C mean for the power system?

- In the **IEA's 2021 report on Net-Zero by 2050**, overall net-zero emissions electricity achieved in advanced economies by 2035
- Latest **IPCC 1.5°C-aligned scenarios** see the EU27 achieve close to zero-emissions electricity generation by 2035
- **G7 commitment** to a fully or predominantly decarbonised power sector by 2035
- **New modelling by Ember** exploring the least-cost pathway to climate neutrality by 2050 in line with 1.5C resulted in a ~95% decarbonised system by 2035

**CLEAN POWER 2035
SHOULD BE AT THE
CORE OF CREDIBLE
PLANS FOR A NET-
ZERO CONTINENT BY
MID-CENTURY**

“CRUCIAL ENABLER”

Thank you

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