



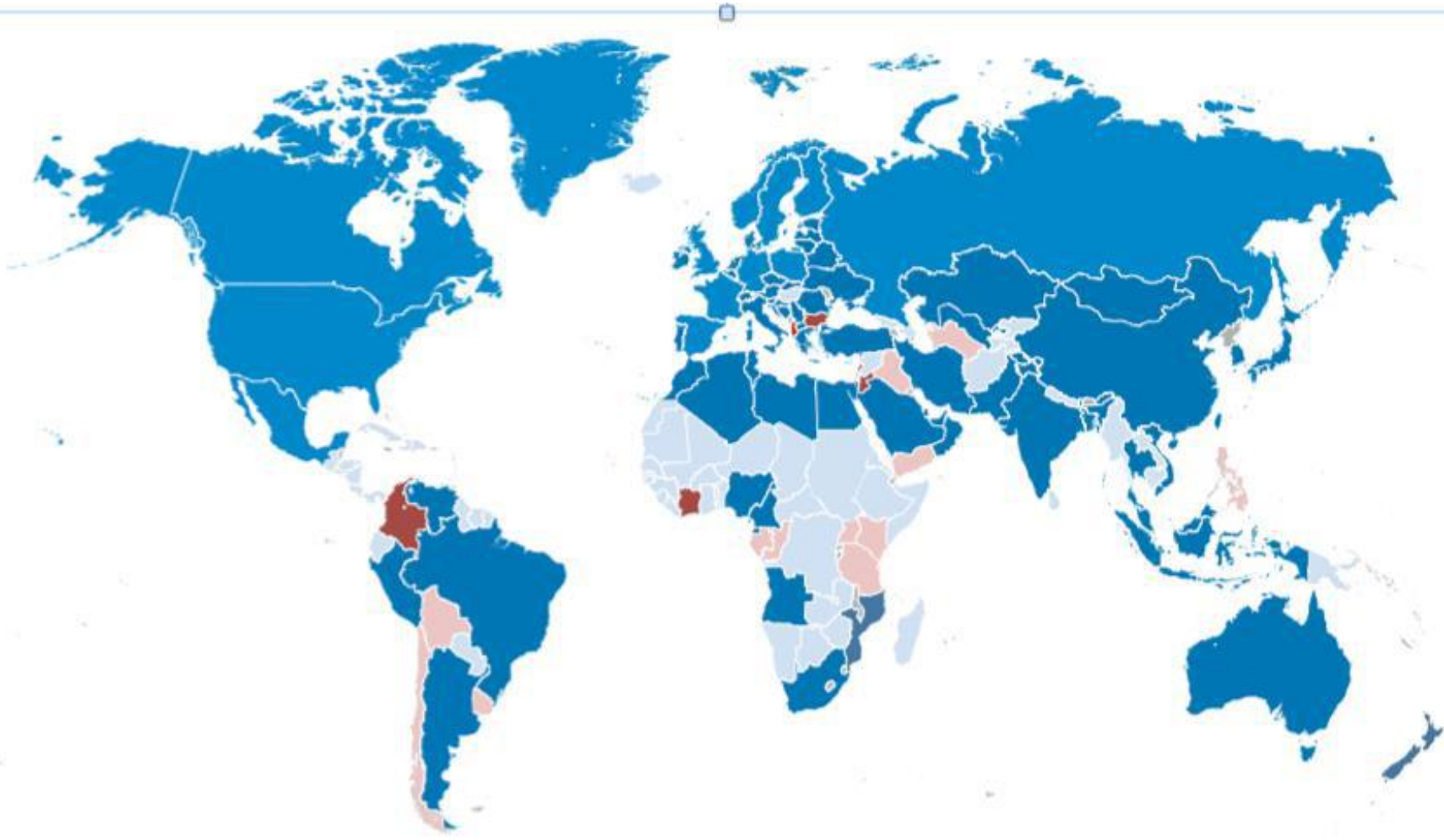
Thursday, 22 January 2015

*EU Energy and Climate targets for 2030:
Enhancing the contribution of natural gas*

Jérôme Ferrier
President IGU

IGU is the voice of 95 % of the Global Gas Market

91 Member Countries, 43 Associate Members



The *Triple 20* EU Energy target for 2020

Reduce greenhouse gas levels by 20%



Estimate
in 2020:
-24%

Increase share of renewables to 20%



Estimate
in 2020:
21%

Reduce energy consumption by 20%



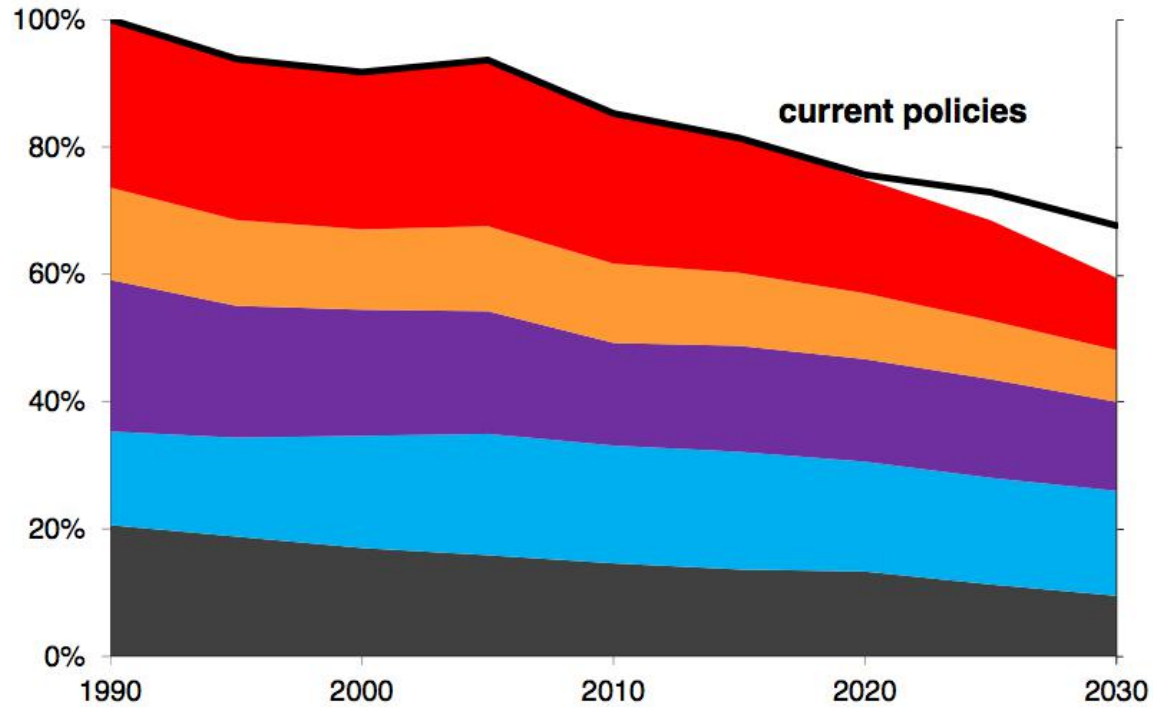
Estimate
in 2020:
-17%

Source: Eu Commission 2014

EU shares of sectors in GHG emissions 1990-2030

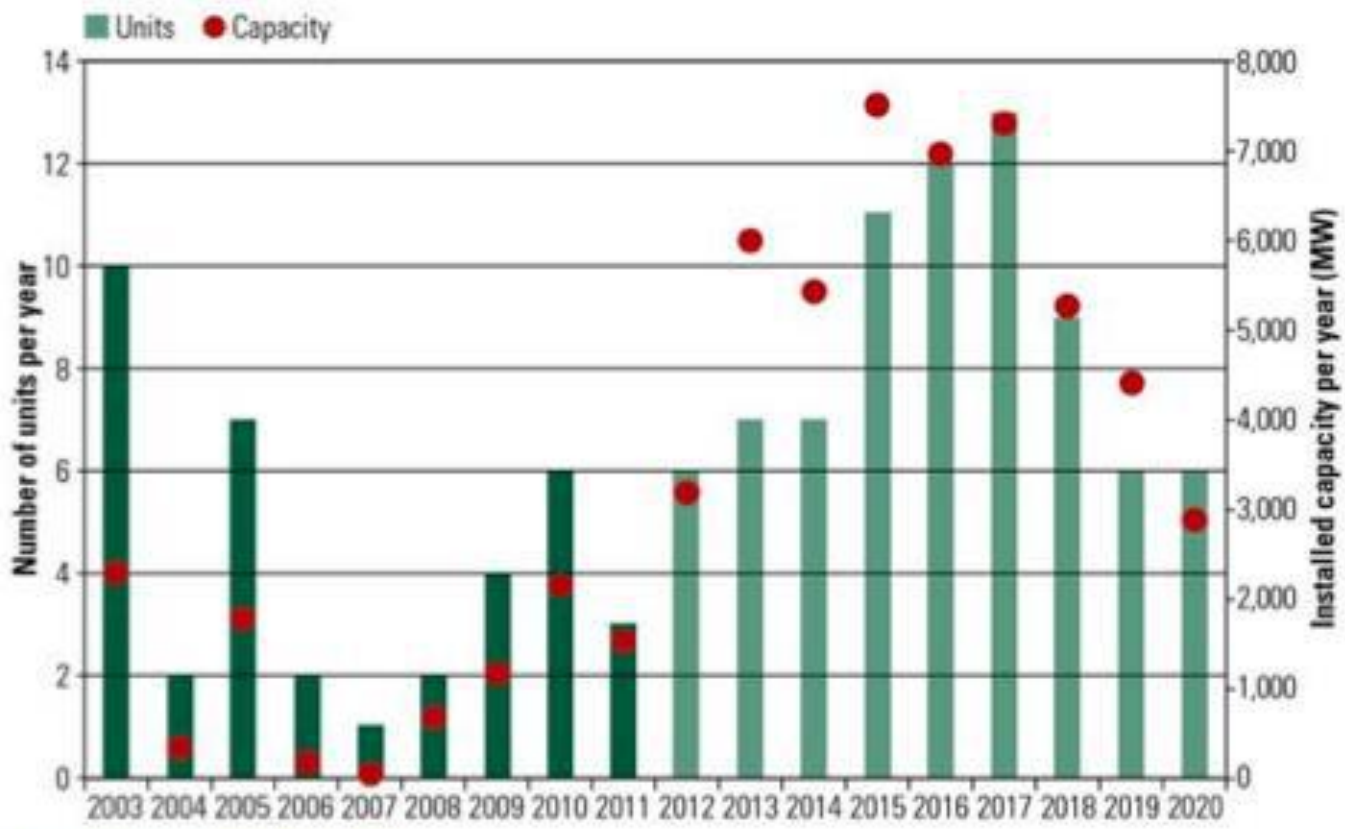


■ CO₂ power sector ■ CO₂ heating buildings ■ CO₂ industry ■ CO₂ transport ■ Other greenhouse gases



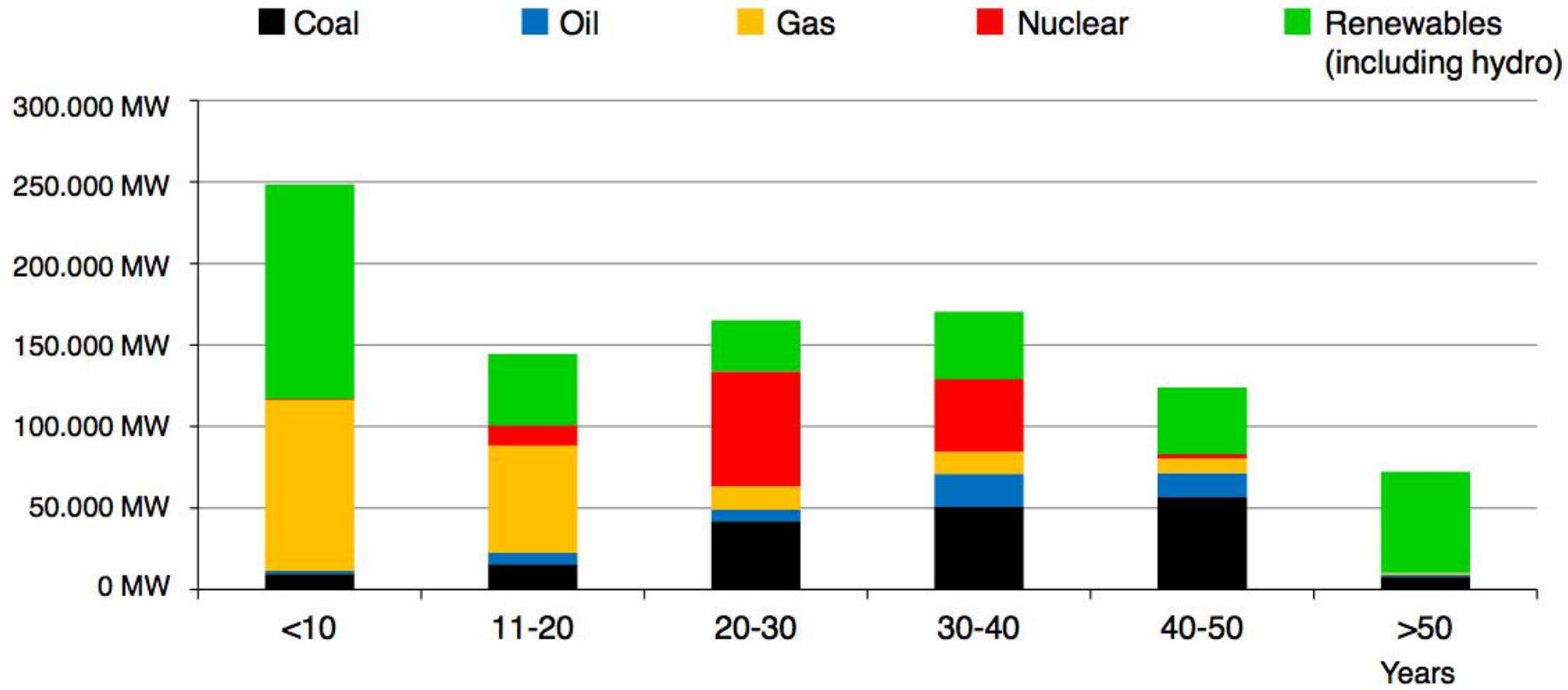
Source: Eu Commission

New coal-fired power capacities in Europe



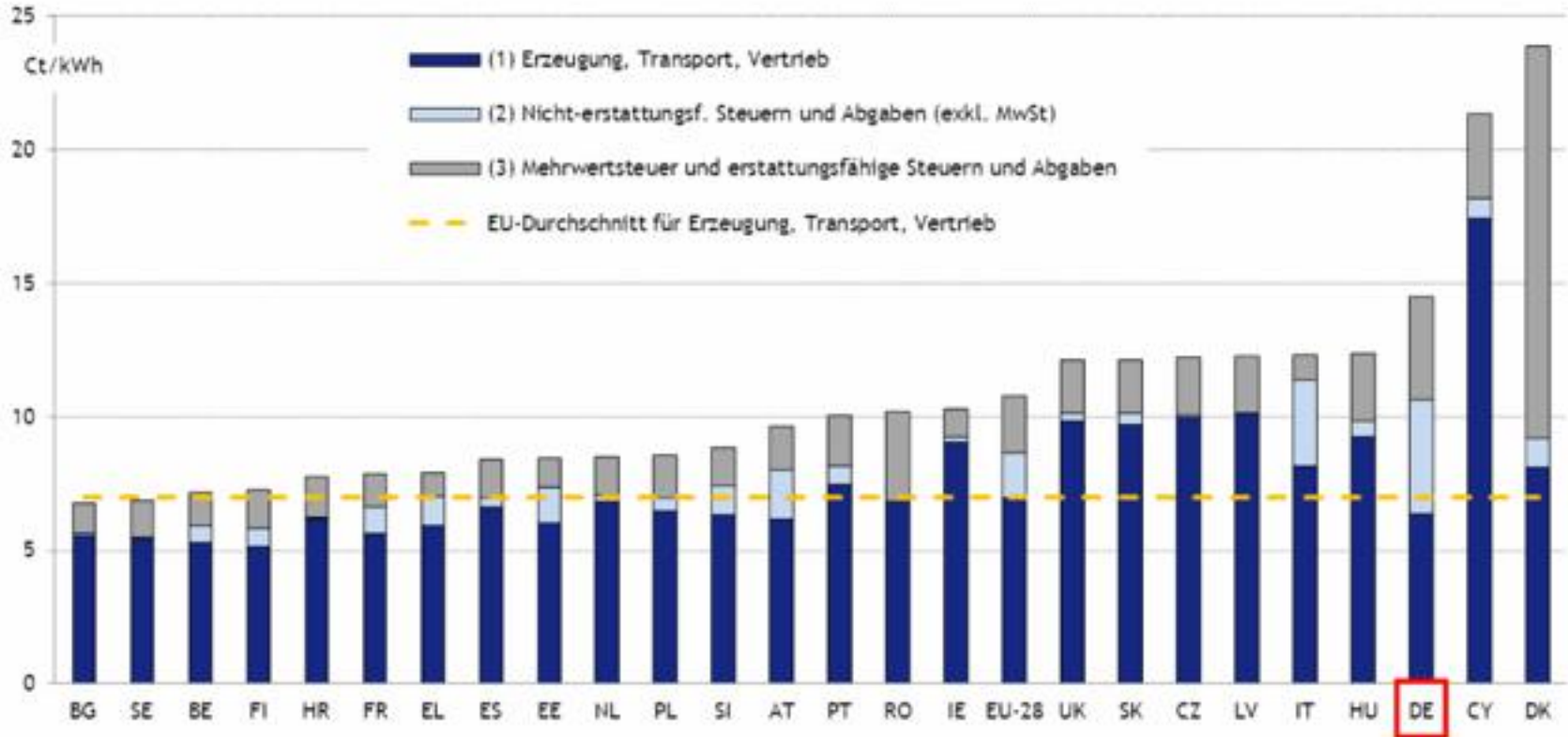
Source: Ecoprog GmbH.²²

EU power generation capacities by age in 2013



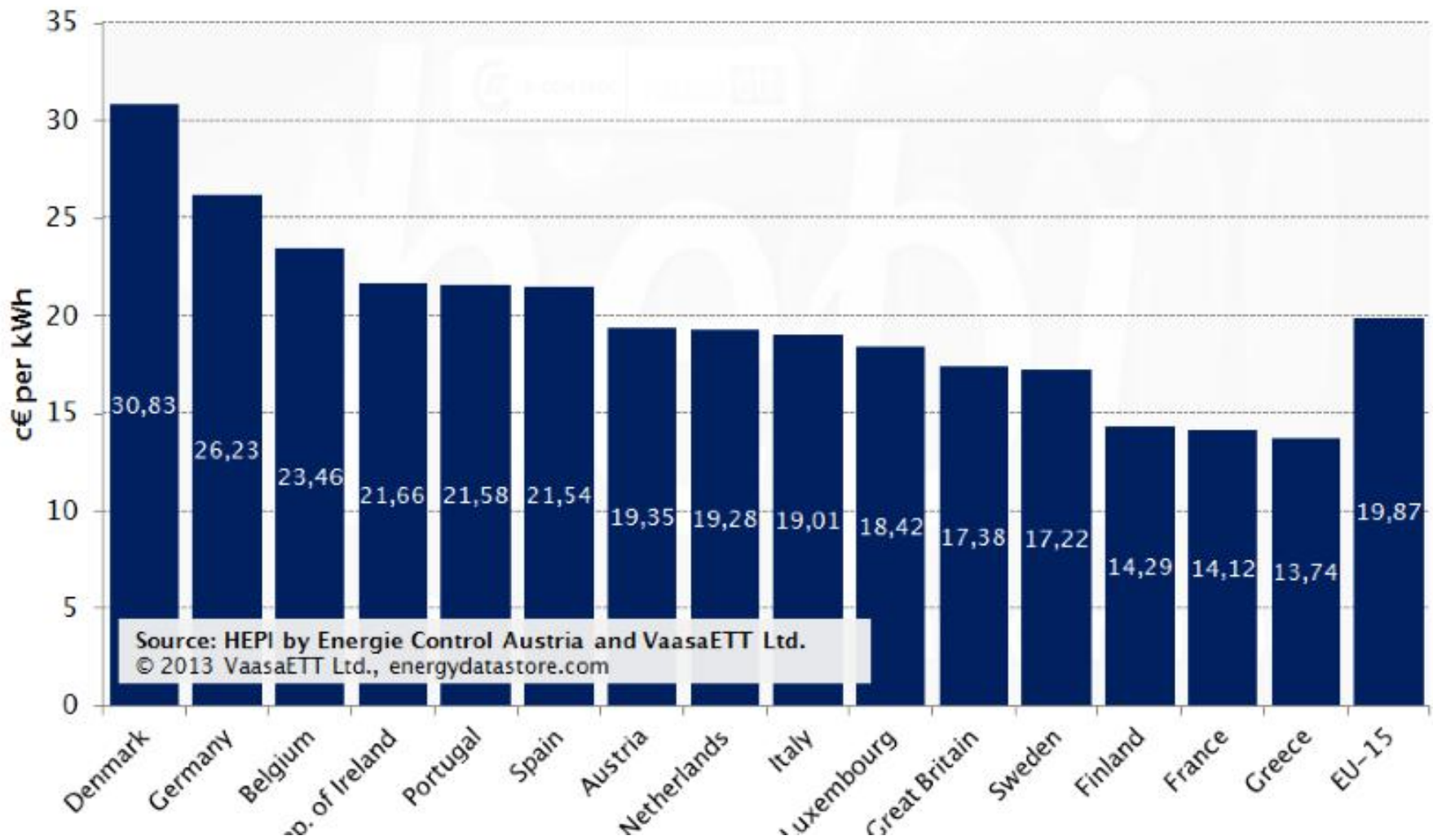
Source: EU Commission

EU Electricity prices for industry (70-150 GWh/year) in 2013

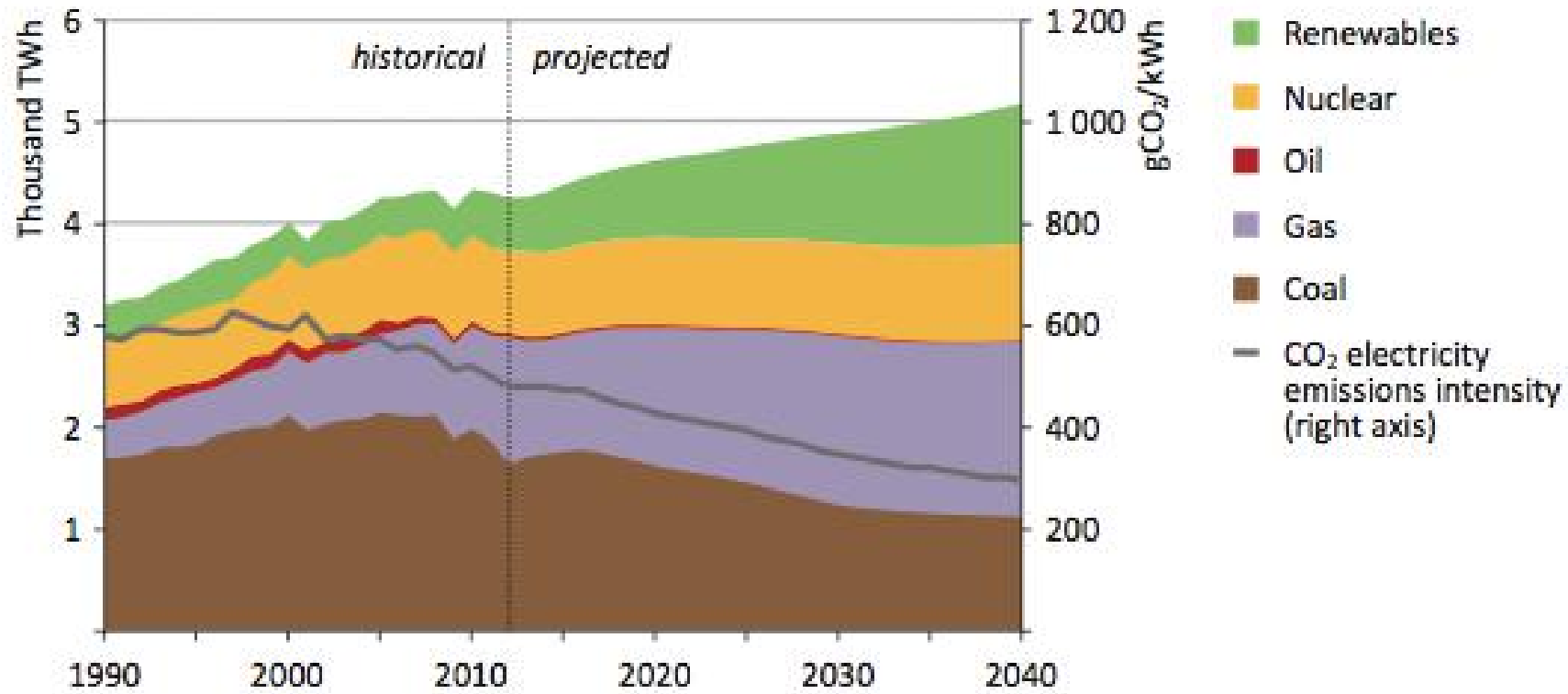


Source: Eurostat

EU Electricity prices to the residential sector in 2012

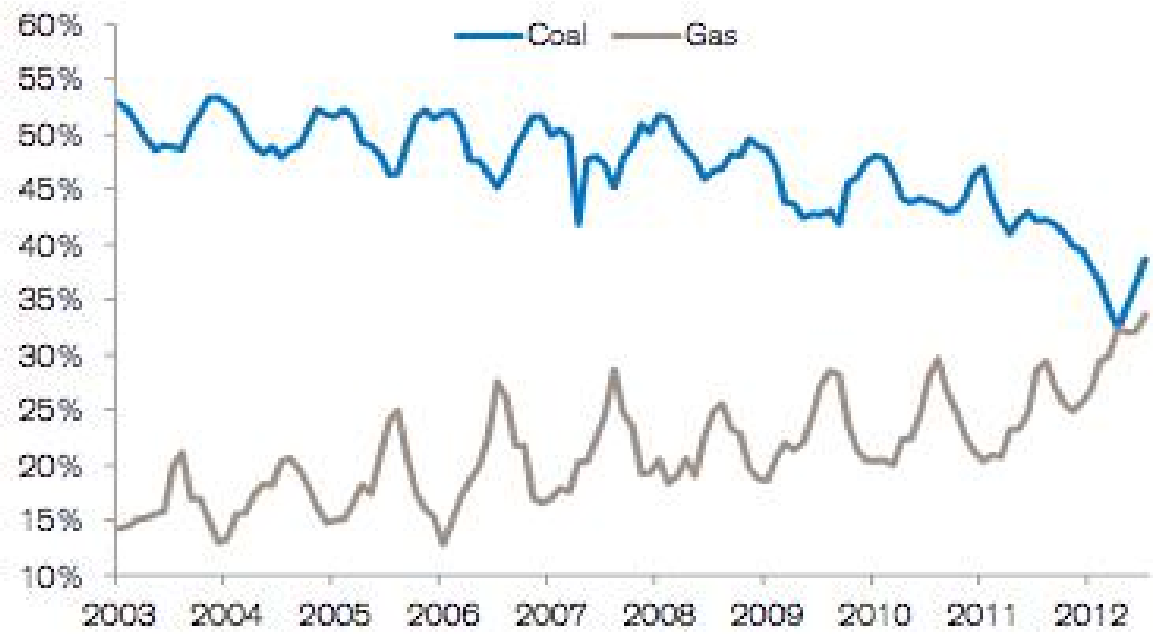


US power generation by source 1990-2040



Source: IEA WEO 2014

Coal has fallen below 35 % of the US power generation mix



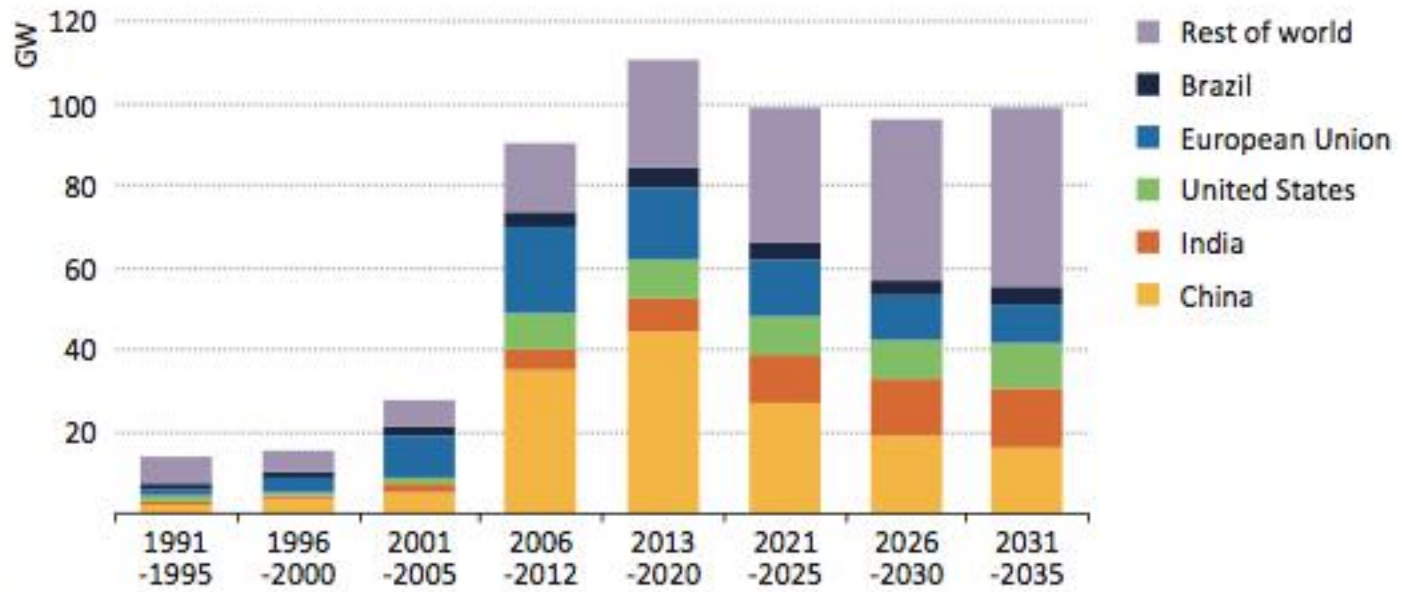
Source: EIA 2013

The UK Emissions Performance Standards (EPS) *Energy Bill 2012 - 2013*



- **EPS requires that any new coal fired power plant demonstrate CCS on at least 300 MW of the proposed generating capacity**
- **Sets a CO2 emission limit at 450 g/kWh until 2045**
- **Guarantees stability of emission regulation until 2045 (grandfathering)**
- **EPS complements the economic signals provided by the Carbon Floor Price and, when applicable, the feed-in electricity purchase tariff with Contract for Difference (CFD)**
- **EPS gives incentives to « Good Quality » CHPs, by discounting the volumes of CO2 saved in the heat production by displacing other fossil fuels**

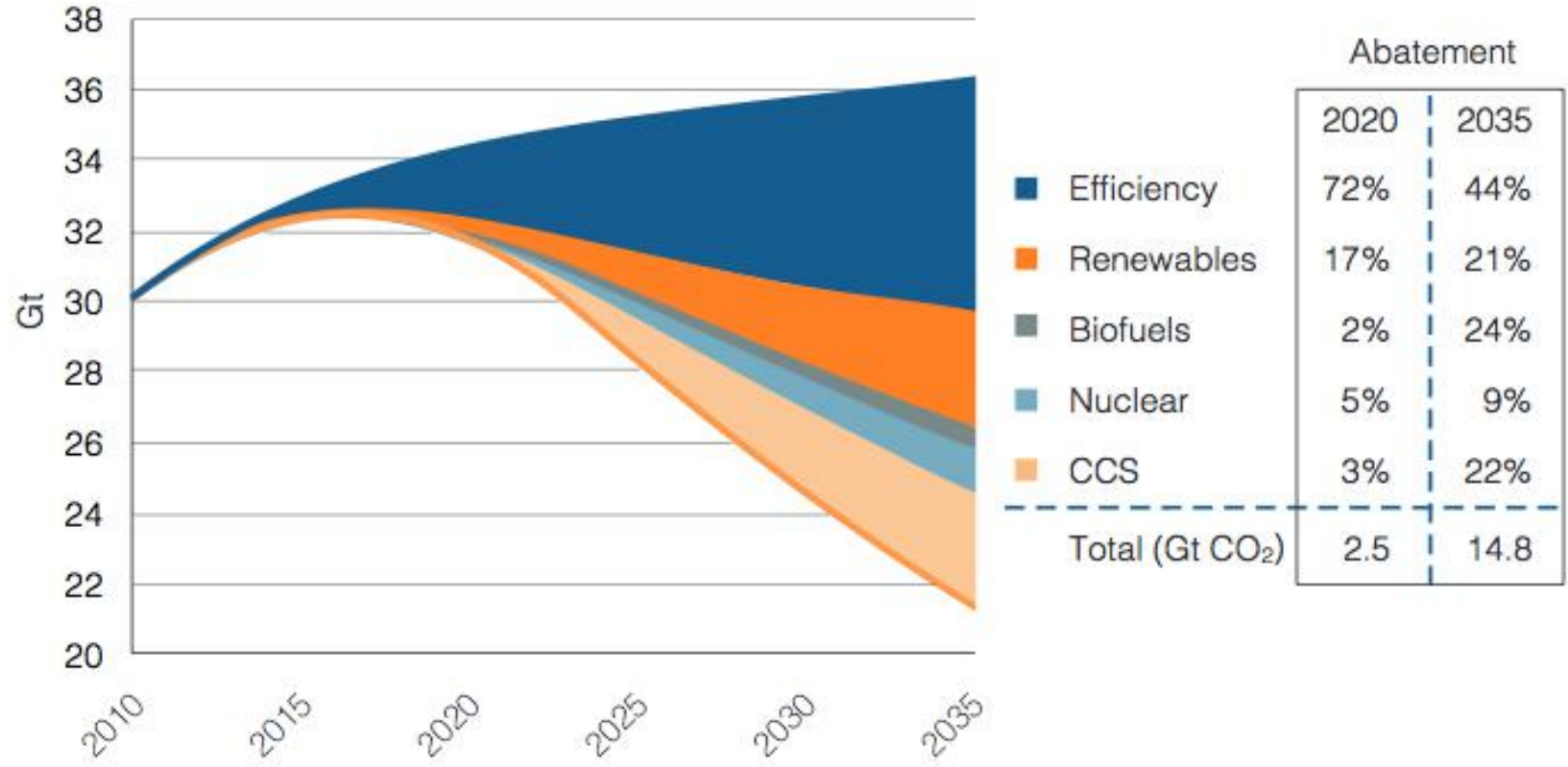
Average annual increases in Renewable based Power capacities



* Excludes capacity that directly replaces retired capacity of the same technology type.

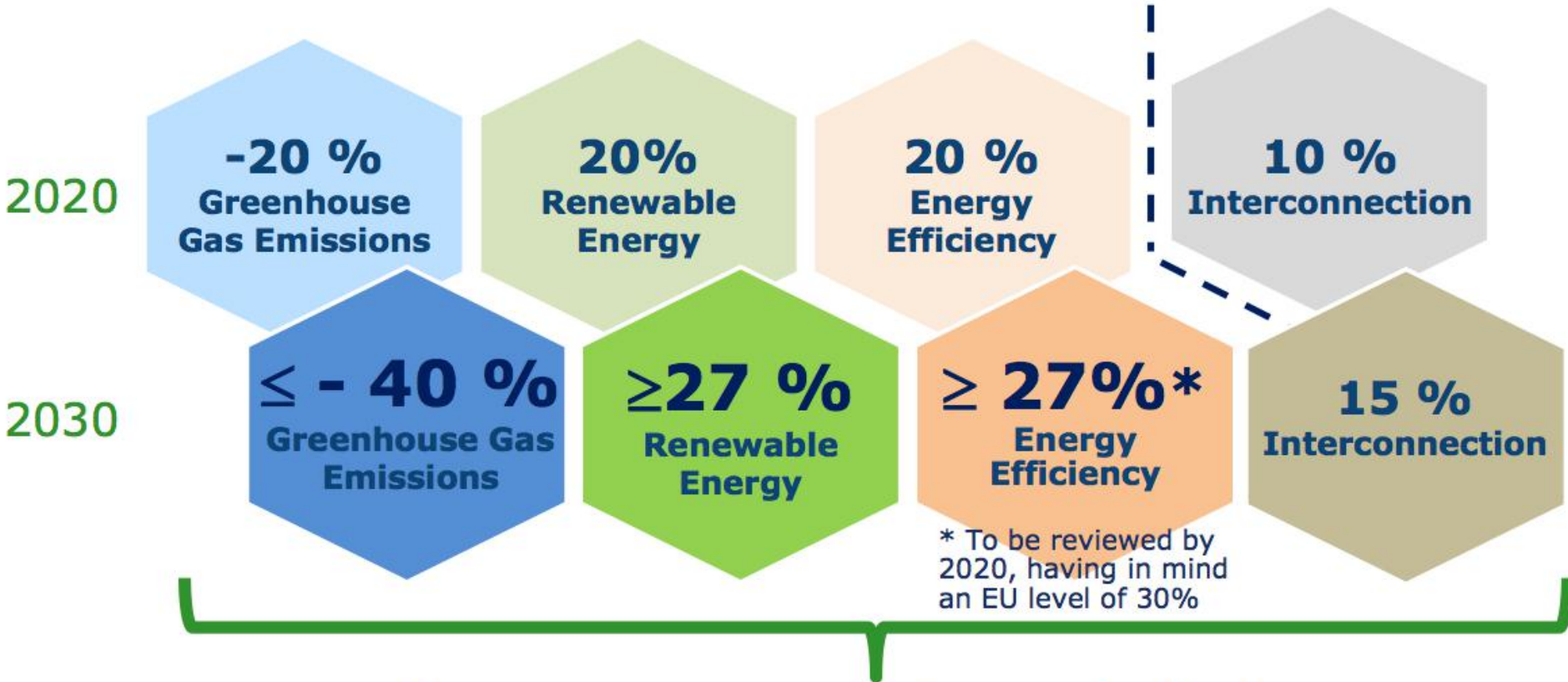
Source: IEA WEO 2014 NPS

Scenarios for CO2 Abatements, by top-down increasing costs



Source: World Energy Council & IEA

Agreed EU headline targets 2030 Framework for Climate and Energy



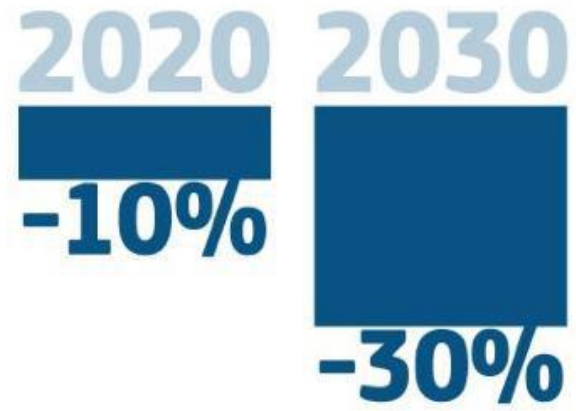
New governance system + indicators

Source: EU Commission

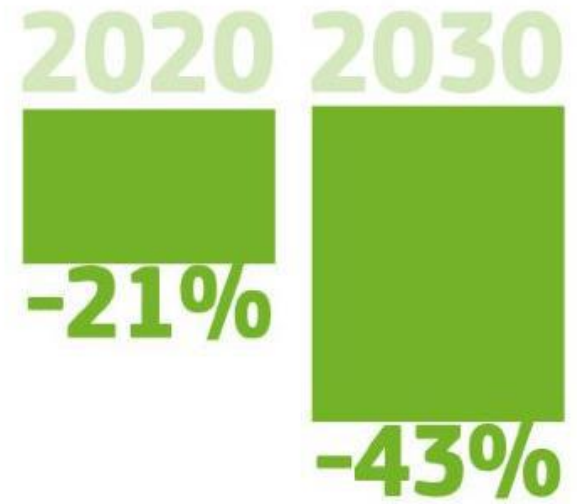
EU GHG emission reductions targets 2020 and 2030



EMISSION REDUCTIONS IN ETS AND NON-ETS COMPARED TO 2005



NON ETS INCLUDING ROAD TRANSPORT, HOUSING, AGRICULTURE etc.



ETS INCLUDING POWER/ENERGY SECTOR & INDUSTRY

Source: EU Commission

2015 World Gas Conference



26th

WORLD GAS CONFERENCE
PARIS FRANCE
1 - 5 june 2015

