



# Climate and Energy: EU perspective

**Madrid, Universidad Pontificia Comillas**

**18 May 2015**

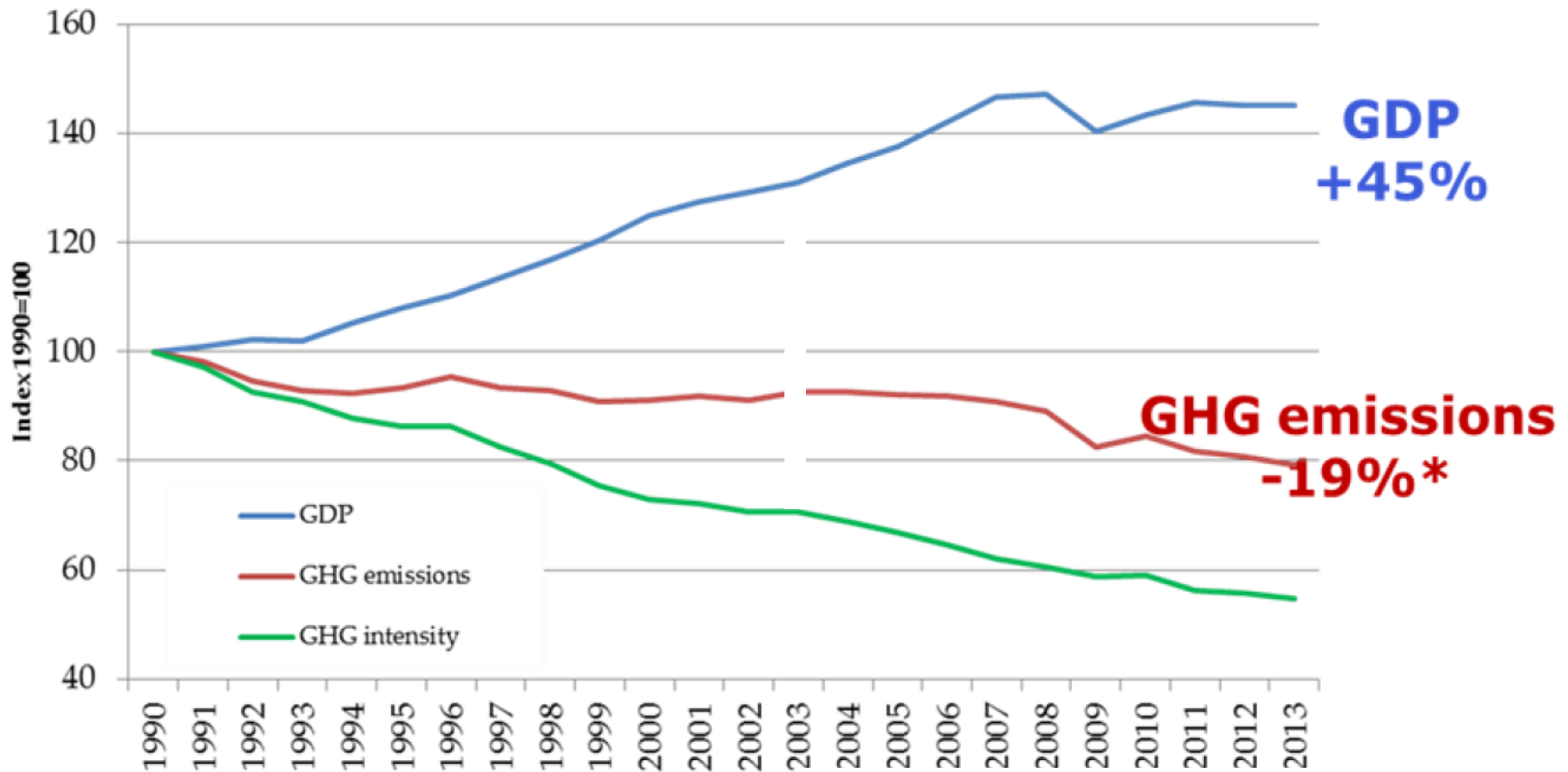
**Jos DELBEKE**

**Director General for Climate Action**

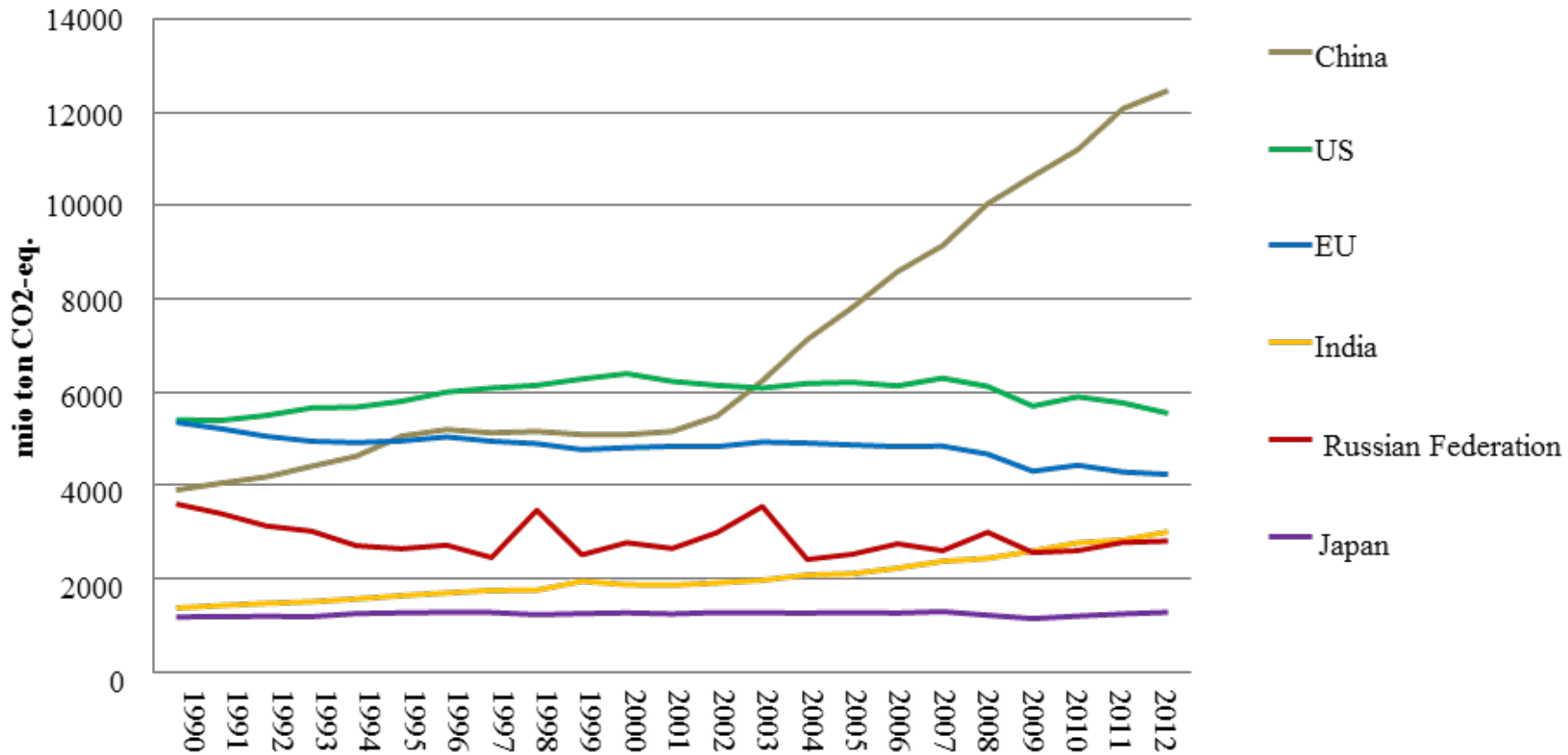
**European Commission**

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# EU decouples emissions from economic growth

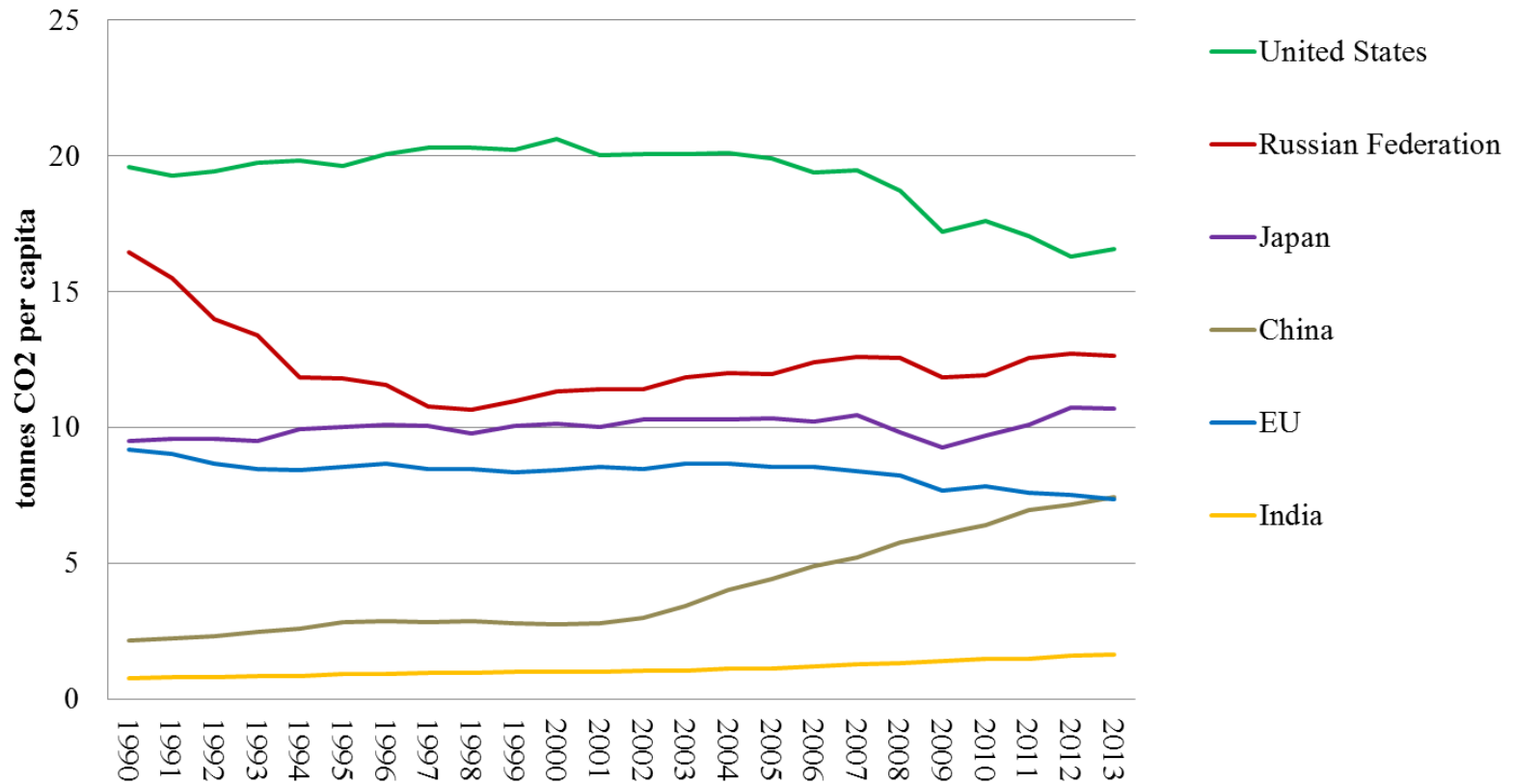


## Emissions (all greenhouse gases, all sources and sinks)



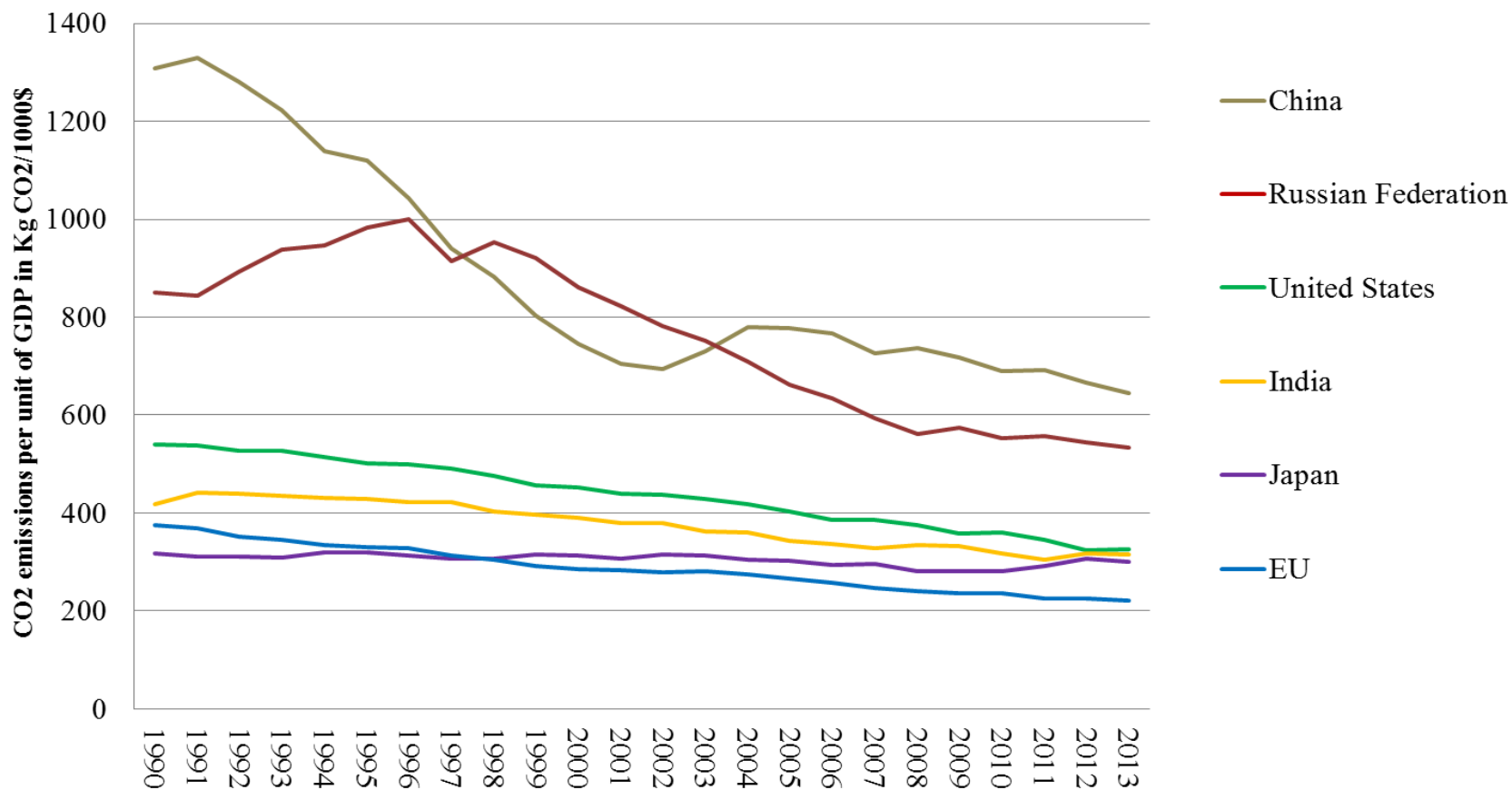
Source historical emissions data: inventories data to the UNFCCC ([http://unfccc.int/national\\_reports/](http://unfccc.int/national_reports/)), emissions with Land Use, Land-Use Change and Forestry; for China and India data from EDGAR, all GHG emission, all sources and sinks, excl. forest and peat fires

## CO2 emissions per capita



Source : CO<sub>2</sub> emissions per capita from fossil-fuel use and cement production, trends in global CO<sub>2</sub> emissions, 2014 Report, PBL, JRC

## CO2 emissions per unit of GDP



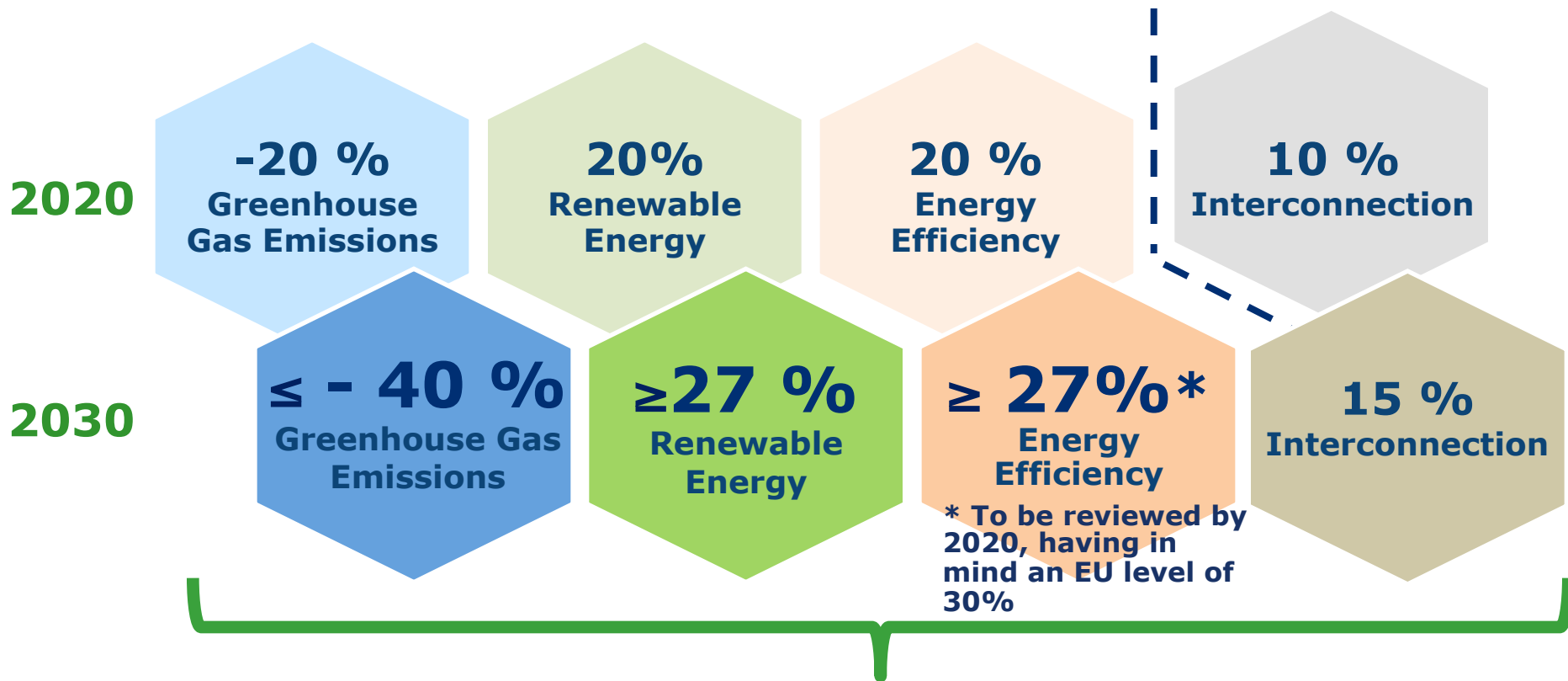
Source : CO<sub>2</sub> emissions per unit of GDP from fossil-fuel use and cement production, trends in global CO<sub>2</sub> emissions, 2014 Report, PBL, JRC  
 Expressed in GPD unit of: 1000 US\$ adjusted to the Purchasing Power Parity of 2011, based on IMF, World Bank (2014).



# Paris Protocol: EU vision for a global deal for climate

- **Fair** and **ambitious** commitment from **all** Parties: all G20 and other high and middle income countries
- Robust **common rules** for **transparency** and **accountability**: most recent emission inventories to be prepared prior to ratification
- **Legally binding** for all Parties to the Protocol
- **Regular reviews** to increase ambition: 5-yearly starting in 2020

# 2030 Framework for Climate and Energy



**New governance system + indicators**

# European Energy Union with forward-looking climate change policy

- Secure, sustainable, competitive, affordable energy in **5 dimensions**:
  - security of supply
  - deeper integration of EU national energy markets
  - reducing EU energy demand
  - decarbonisation and
  - research and development
- 15 concrete **action points**, including CO<sub>2</sub> and car standards, ETS with MSR
- € 315bn **Investment Package**





## EU ETS

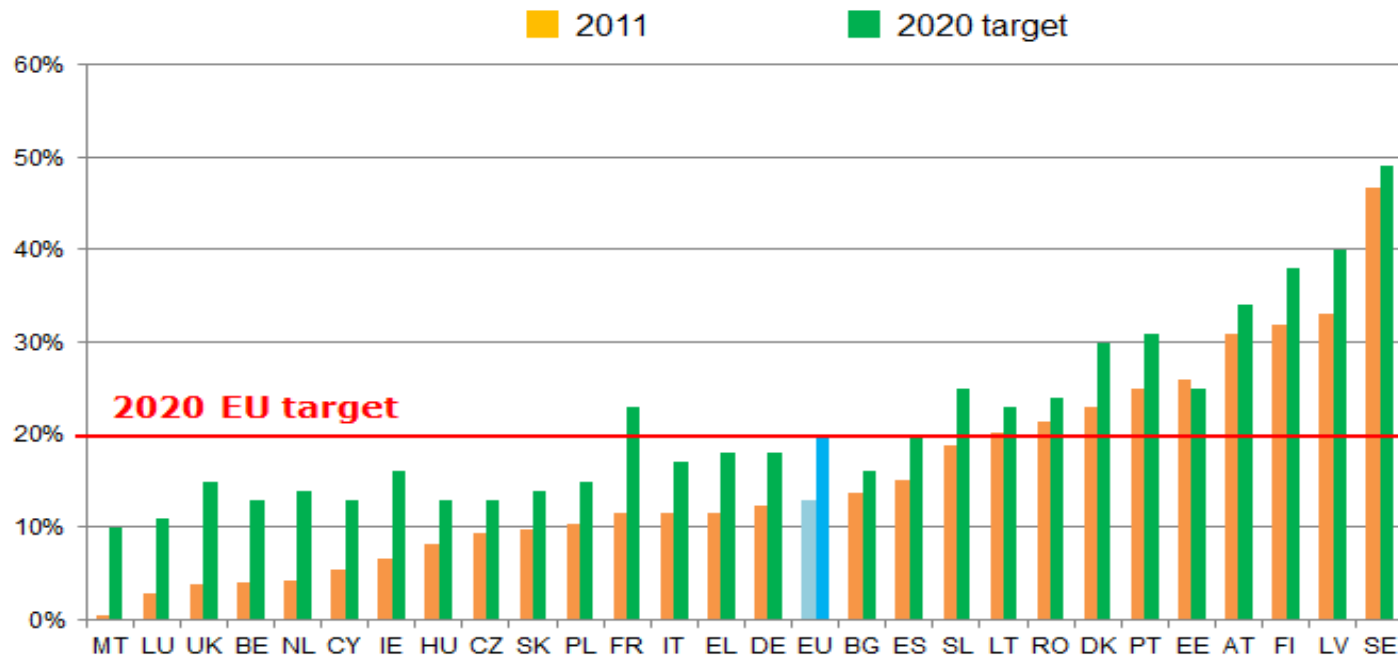
- **Market stability reserve**
- **2030 target: -43%** compared to 2005
  - **applicable to power sector, manufacturing industry**
- **For industry:**
  - **carbon leakage**
  - **innovation fund**
- **For less wealthy Member States:**
  - **modernisation fund**
  - **optional free allocation to power sector**



## Emission reductions in the non-ETS: targets and principles

- **2030 target: -30%** compared to 2005
  - **Applicable to transport, households, agriculture**
- Member State targets **range** between **0% and -40%**
- Target setting guided by **GDP/capita**, supplemented by cost effectiveness criteria.
- **LULUCF** to be integrated

# Progress towards 2020 RES target



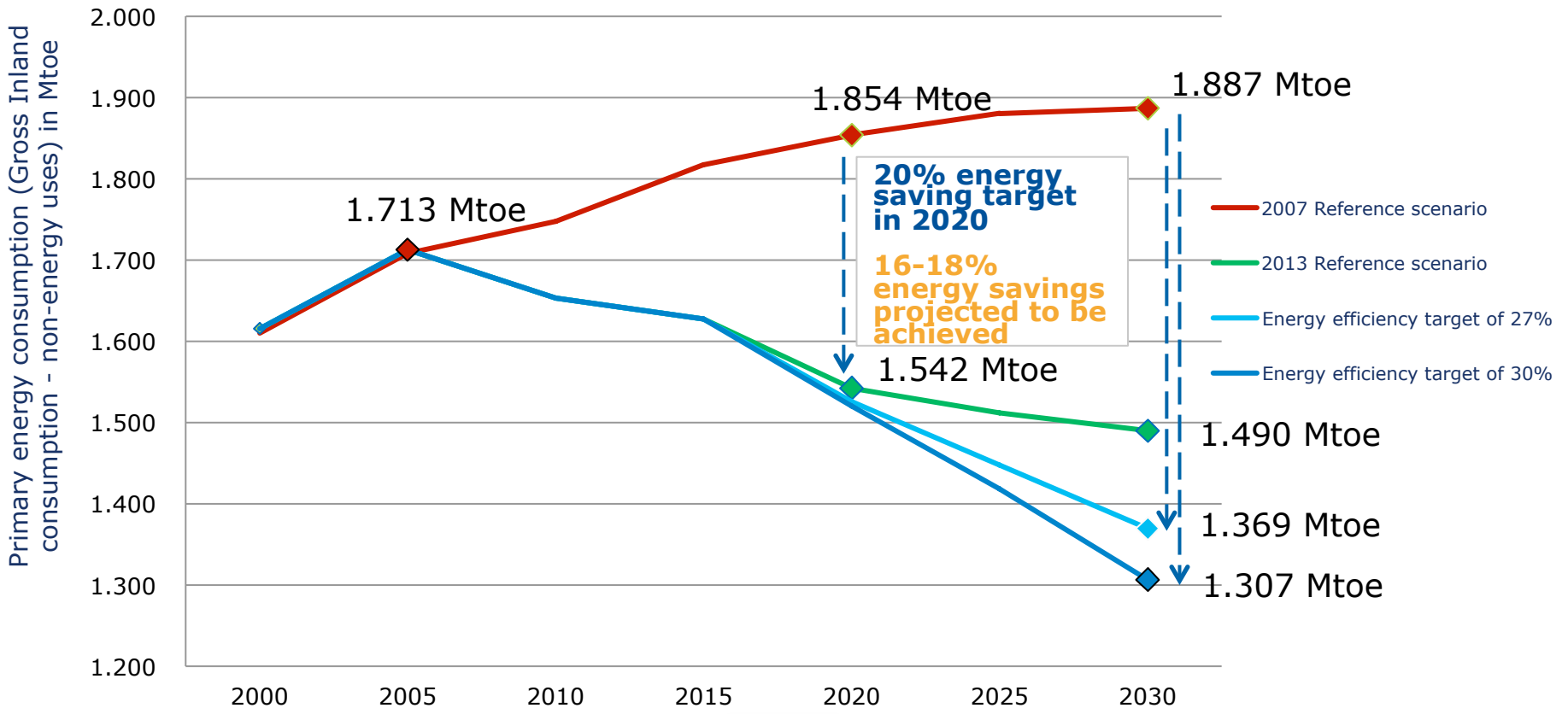
Source: Eurostat

Renewable sources accounted for 14% of the EU final energy consumption in 2013

# Energy efficiency:

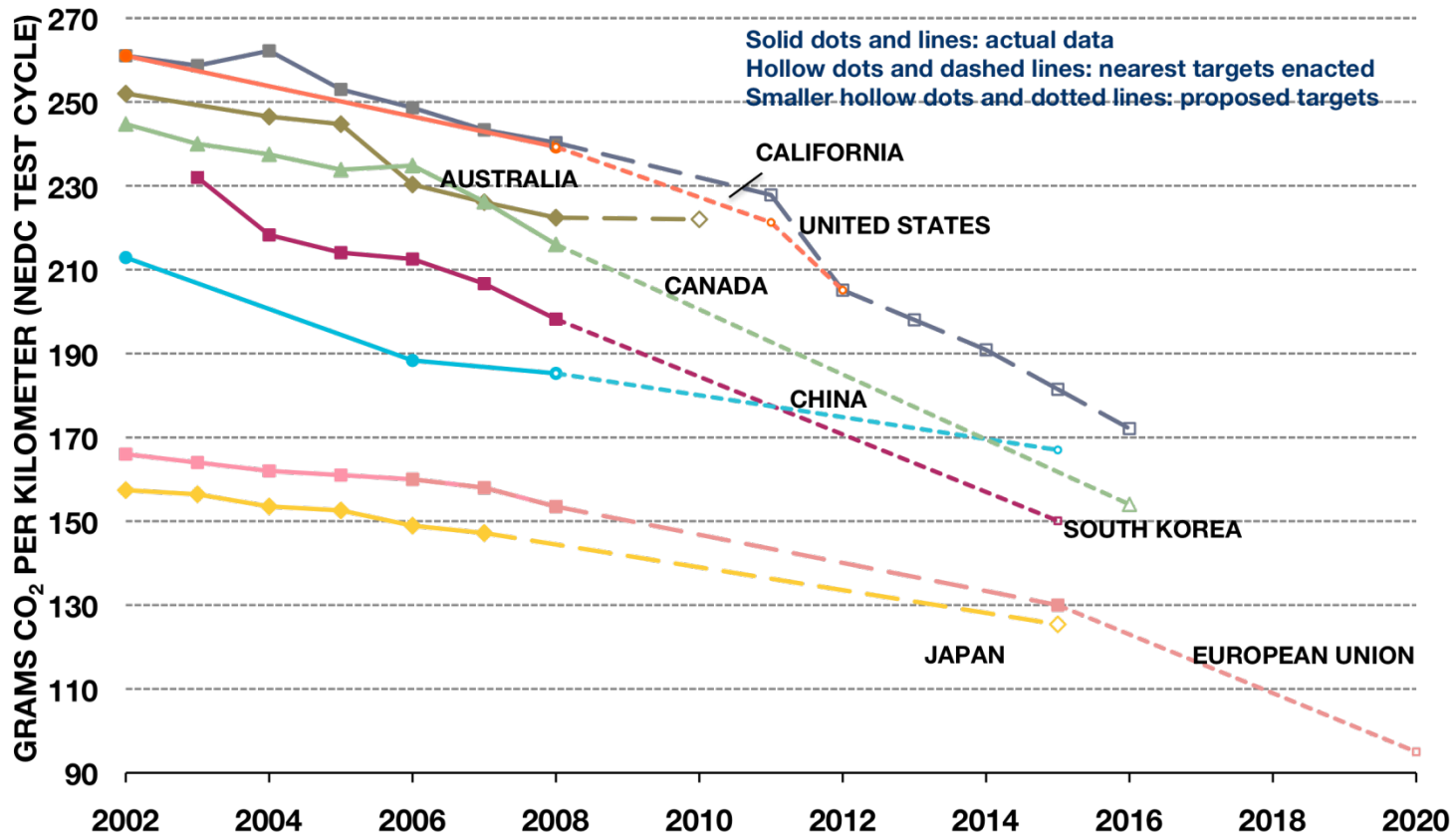
## EU 2030 target: at least 27% of energy savings

### 2020 and 2030 energy savings targets

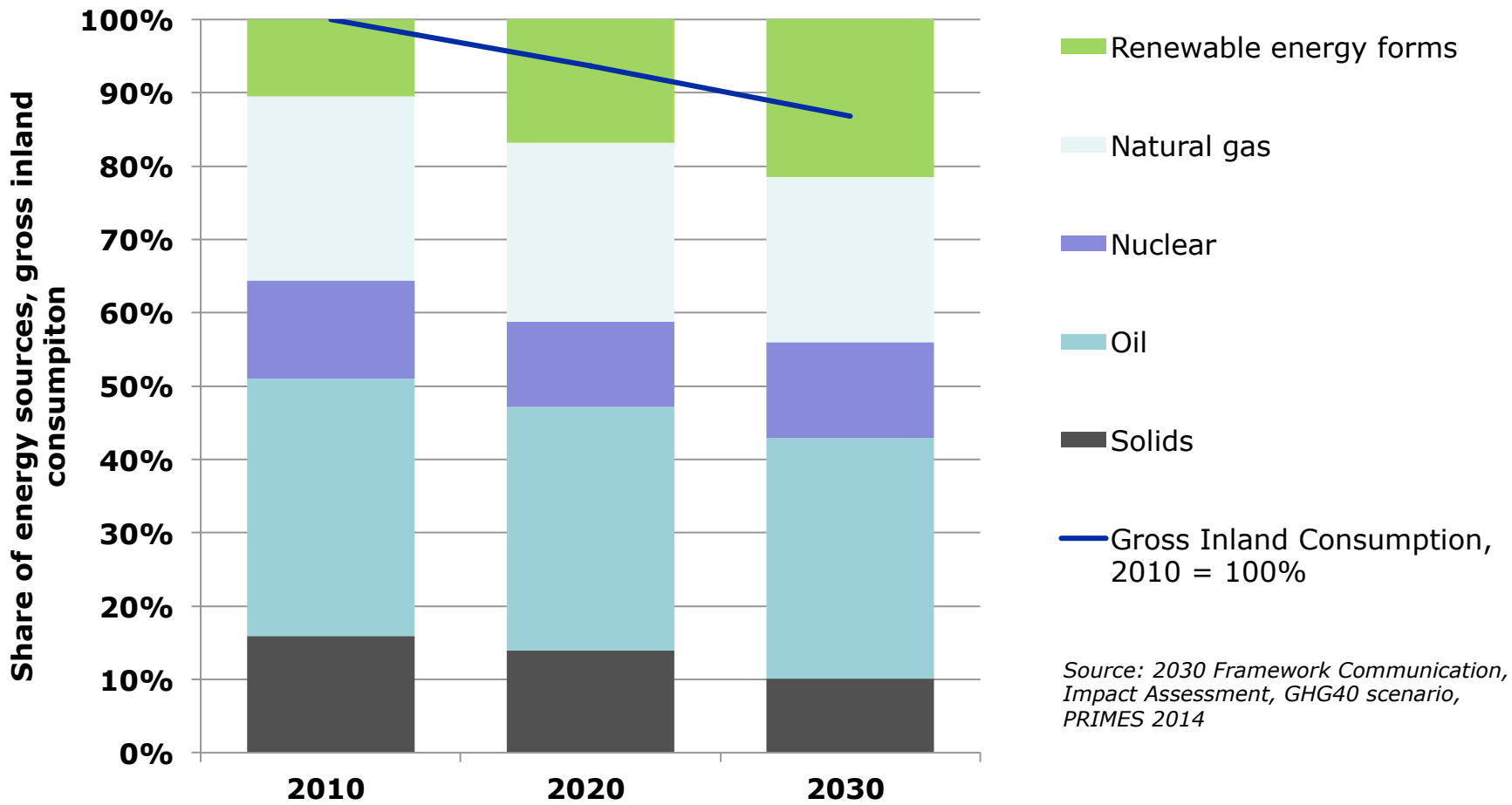


# CO2 FROM CARS

## PASSENGER VEHICLE GHG EMISSIONS FLEET AVERAGE PERFORMANCE AND STANDARDS BY REGION



## Energy Mix





# Thank you!



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