



CO2 Scenarios

The issue of nuclear electricity

Michel Colombier

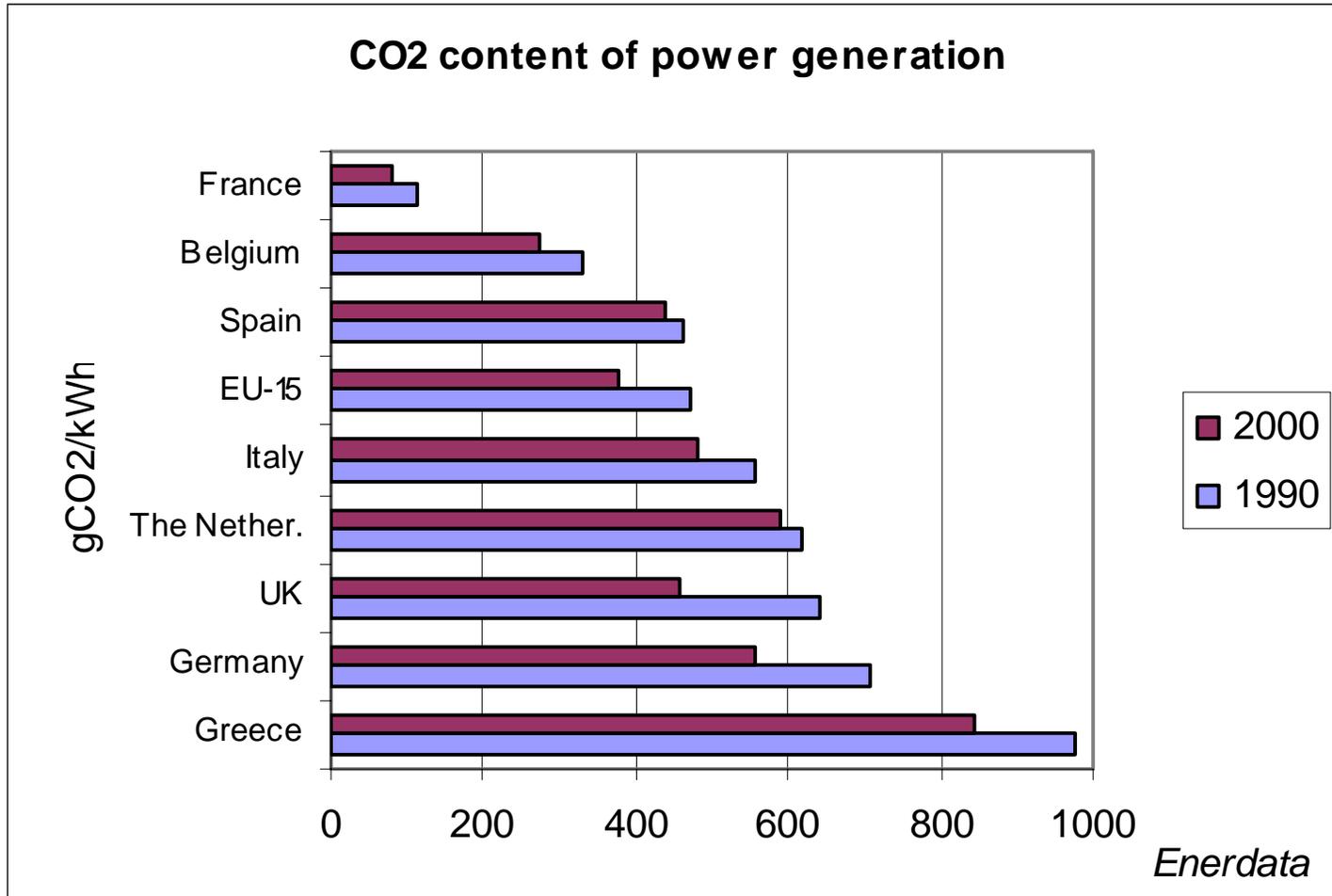
Iddri, Paris

NIES Tokyo

24 march 2005

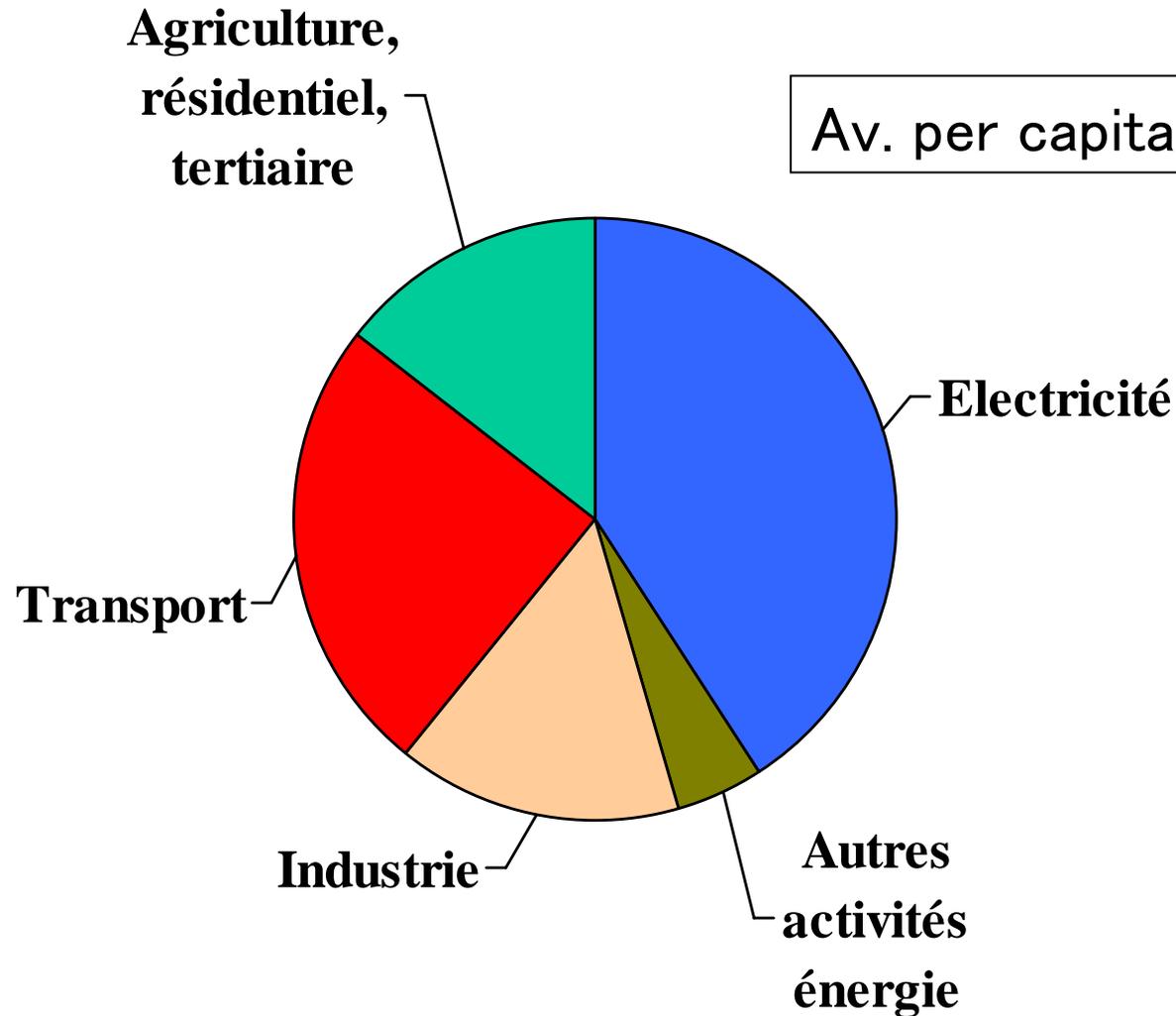
Power generation

A lower carbon content...



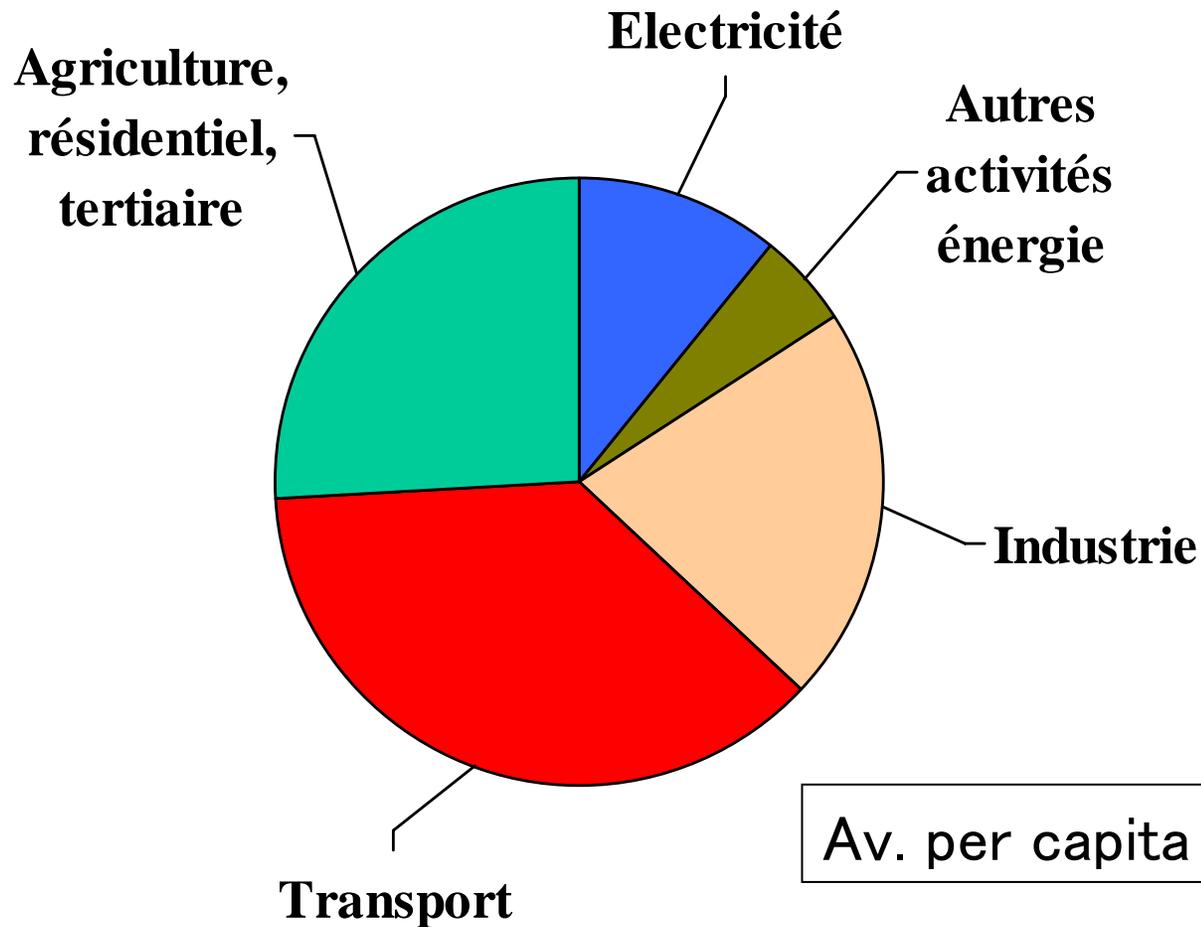
CO₂ Emissions (Energy)

OECD



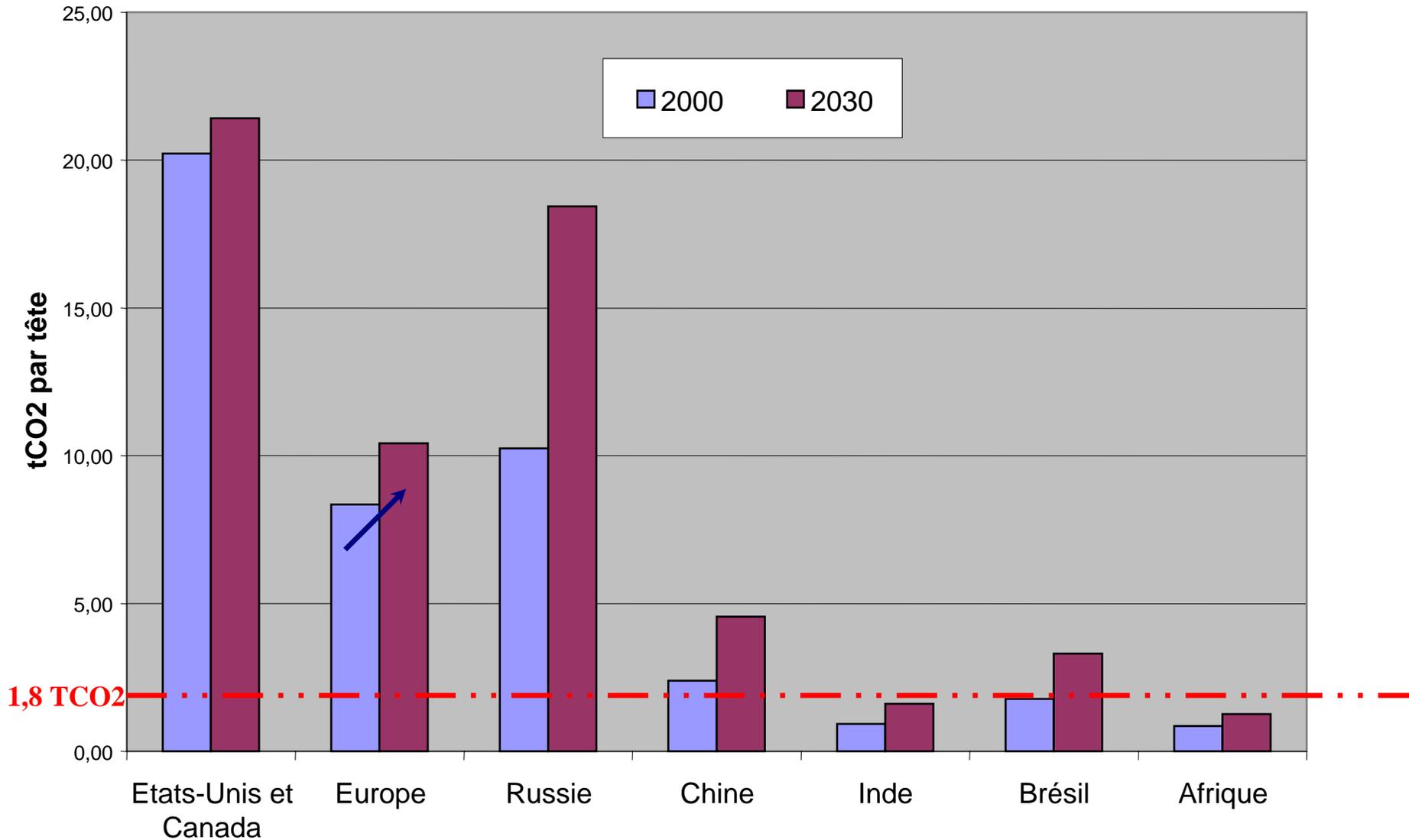
CO₂ Emissions (Energy)

France



Per capita emissions

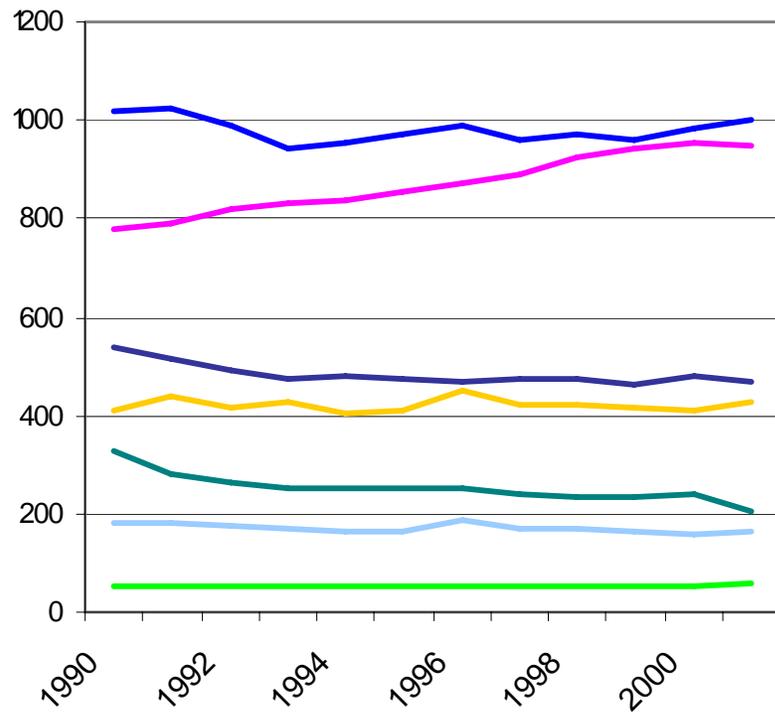
source: AIE, 2002



More telling pictures:

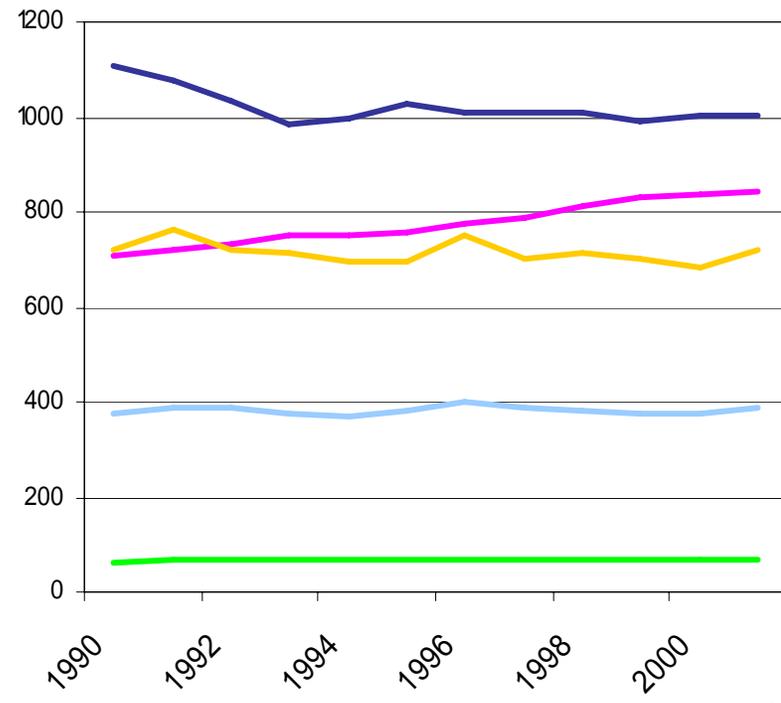
Sectoral CO2 emissions in EU-15

MtCO2



Sectoral CO2 emissions in EU-15 with electricity-related emissions allocated to end-use sectors

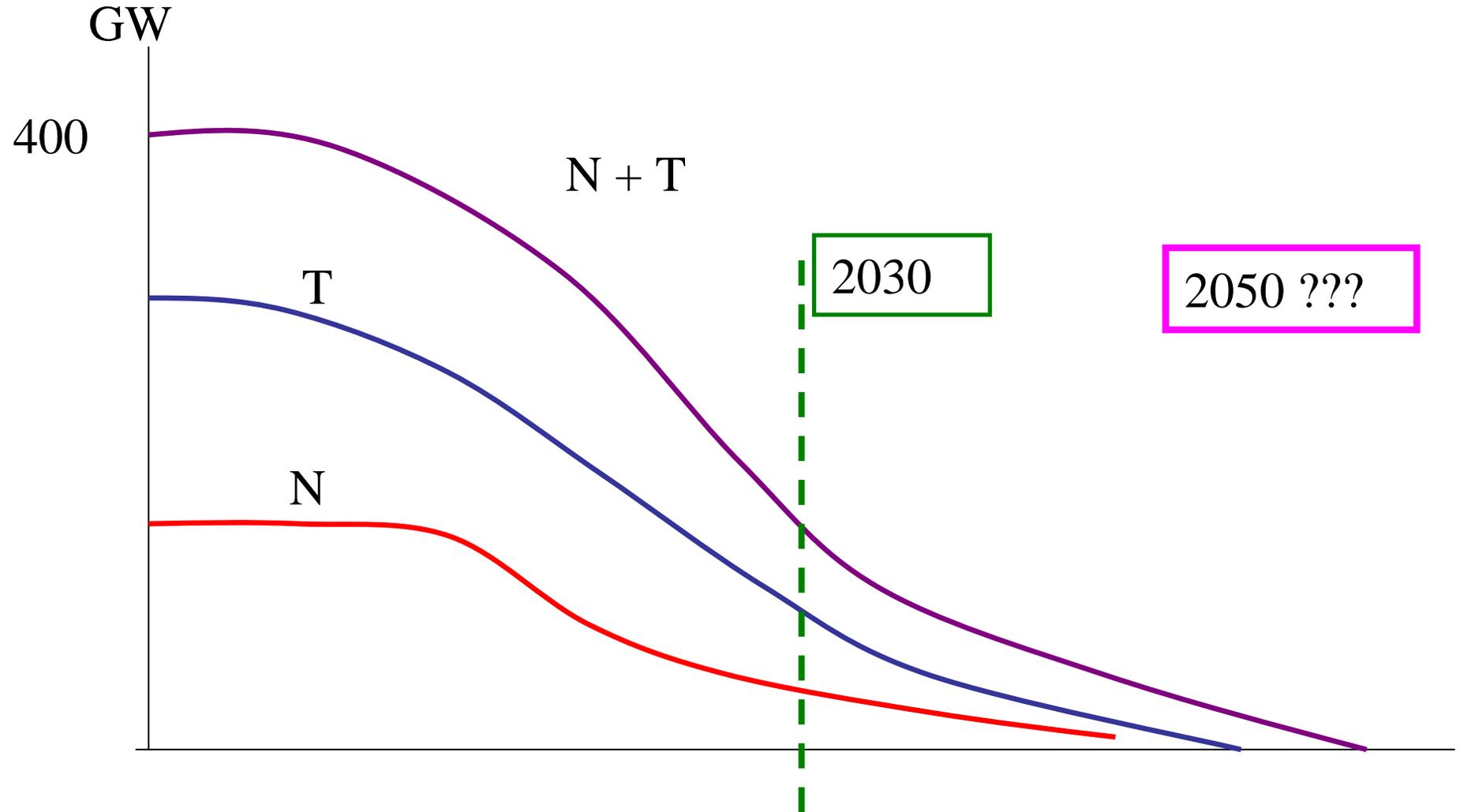
MtCO2



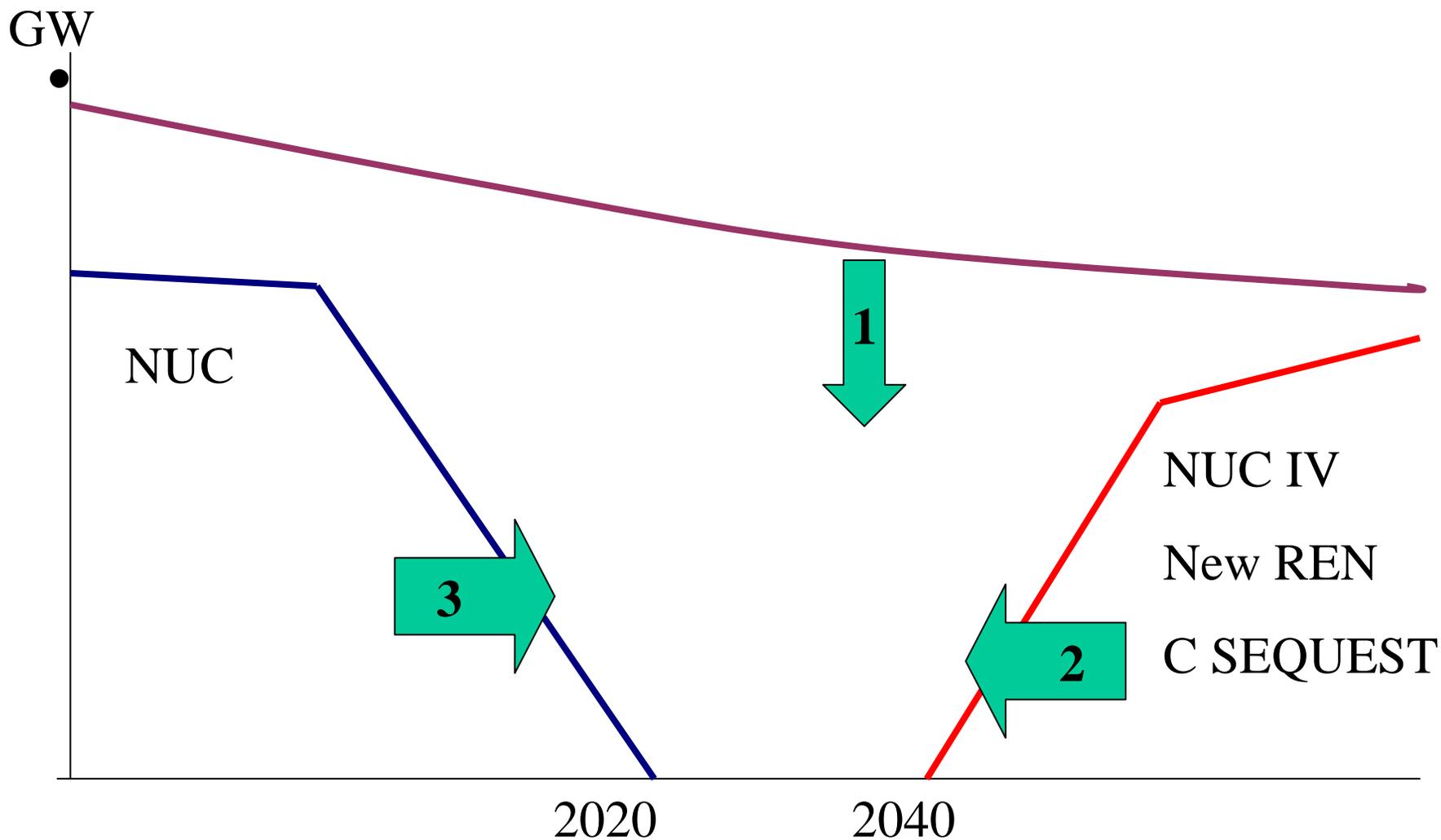
Enerdata

Odysse

The European E-Capacity



The 3 issues in debate



Power generation

Uncertainty re. the effects of the EU emission trading scheme

- Power accounts for :
 - Roughly 60% of sources covered by the EU ETS
 - At first glance, the *reservoir* for quick reductions
- Question : will the overall pressure in the system be enough to trigger major substitutions in electricity production?
- Will the announced rising electricity prices, caused by the carbon constraint, trigger adjustments on the demand side?