

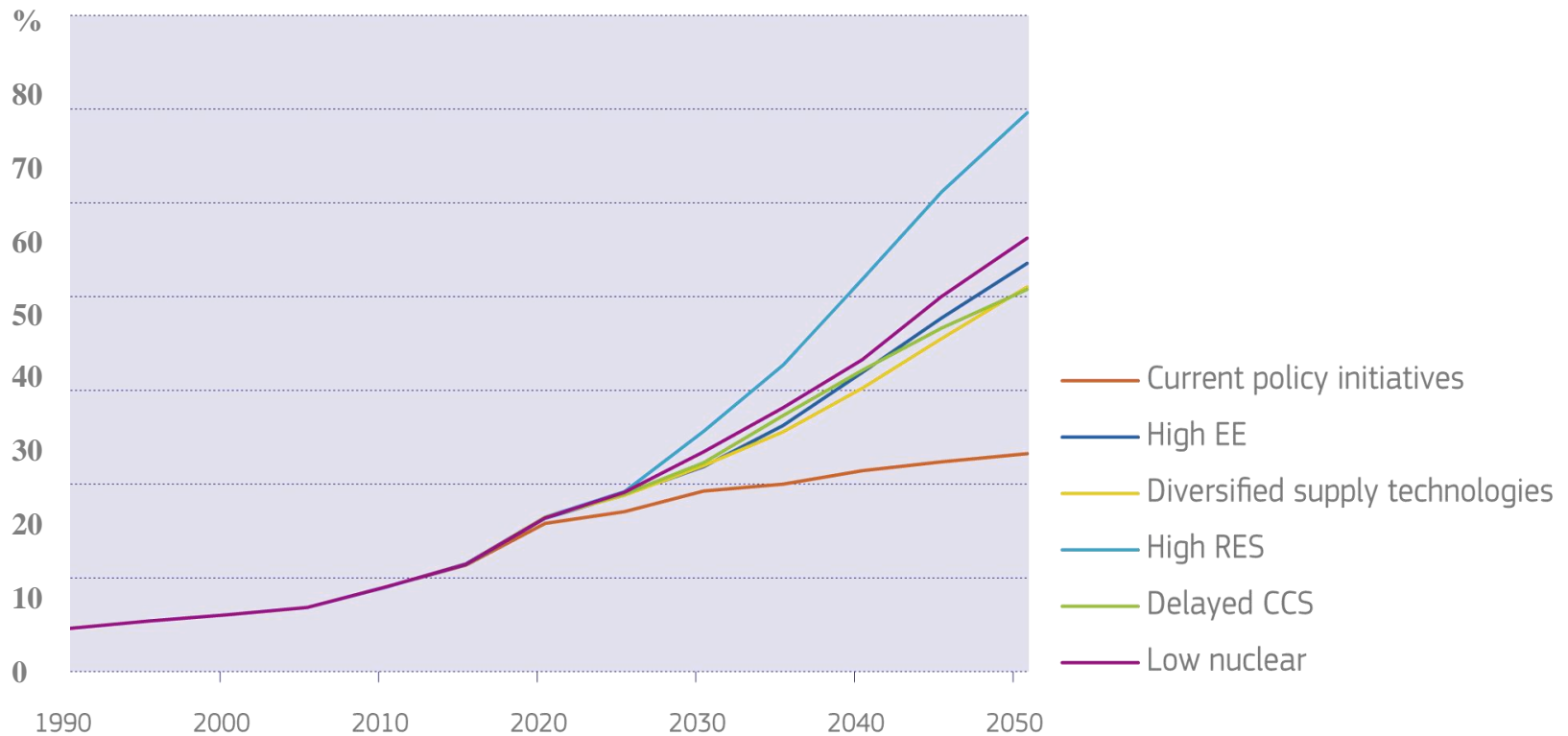


Commission analysis on biomass sustainability

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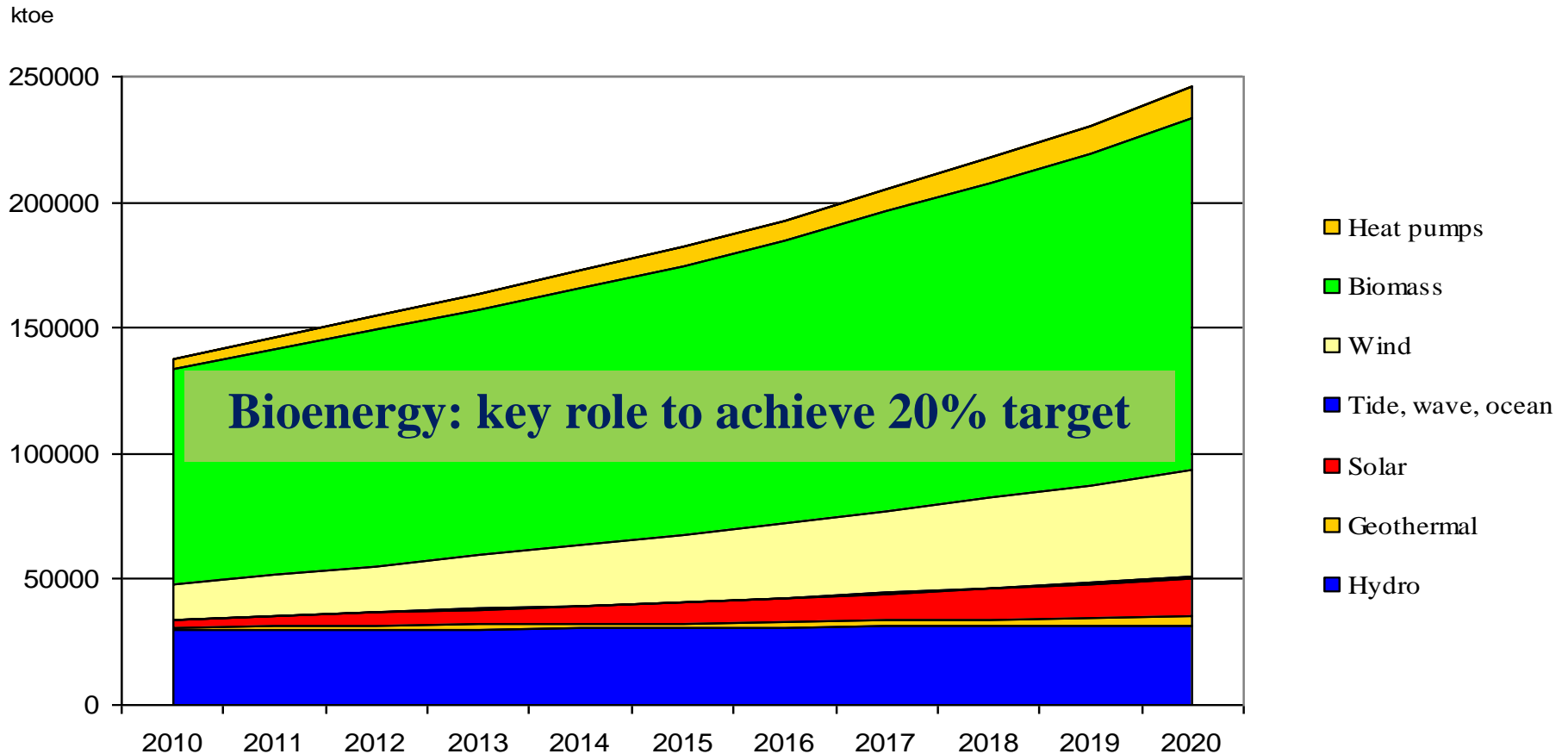
2050 Energy Roadmap: Renewable energy is a "no regrets option", and business as usual is not sufficient for decarbonisation pathway



The share of RES in **electricity consumption** reaches 64% in a High Energy Efficiency scenario and 97% in a High Renewables Scenario that includes significant electricity storage.

Renewables technology outlook

(source: National Renewable Energy Action Plans)



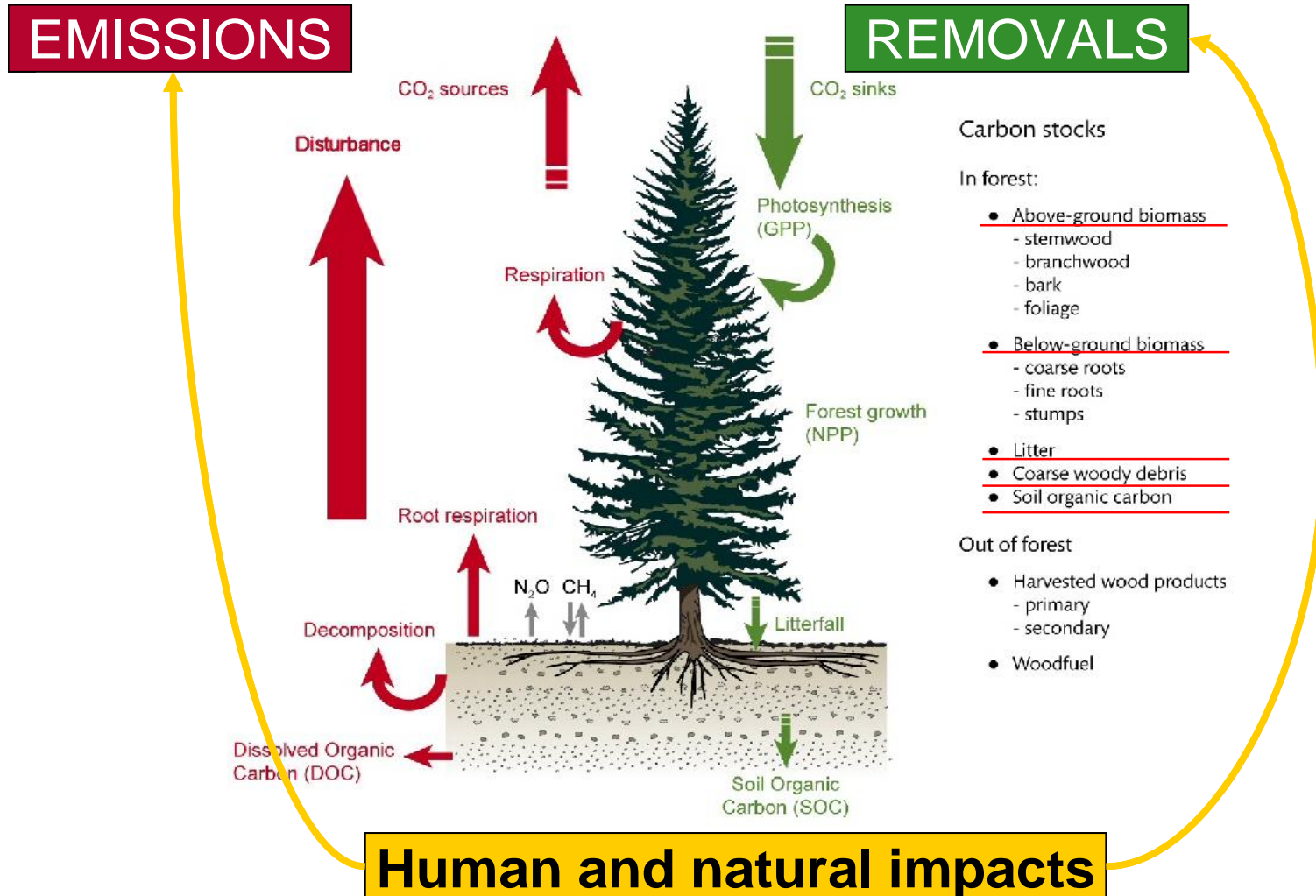
Biomass sustainability – stakeholder views

- ✓ **Bio-energy operators** concerned about administrative burden of multiple national criteria
- ✓ **Forest sector** sees economic benefits of bio-energy but expresses concerns about new environmental requirements additional to MS regulations and market-driven schemes
- ✓ **NGOs/citizens** concerned about risks posed by increased harvesting on European and foreign forests, including impacts on forest carbon and biodiversity
- ✓ **Non-energy biomass users** concerned about feedstock competition



Carbon balance of biomass

Net ecosystem exchange (NEE = NPP - decomposition)



Key messages

- **Renewable energy**, including **bio-energy** will play an important role in the decarbonisation of the EU energy sector by 2050
- Biomass is critical for meeting **2020 targets**
- **Efficiency** in terms of biomass production/consumption is needed to prevent unwanted negative side effects
- Commission is currently considering whether to make proposals to further develop the **EU sustainability framework** to include solid biomass