



Session II - National strategies, policy and measures for the deployment of advanced biofuels and RFNBOs

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EU Definitions – Advanced Biofuels & RFNBO

Advanced Biofuels:

- Biofuels produced from feedstocks listed in Annex IX Part A of RED II/III
- Derived from non-food and non-feed biomass (e.g. waste, residues, lignocellulosic material)
- Designed to reduce competition with food crops
- Eligible for specific **incentives** and **double counting**

RFNBO (Renewable Fuels of Non-Biological Origin):

- Fuels produced from renewable electricity (e.g. hydrogen via electrolysis, e-fuels)
- Not based on biomass
- Must meet strict additionality and GHG emission criteria
- Key role in decarbonizing industry and hard-to-abate transport sectors





Renewable Energy Directive III (RED III) – Main targets

- 29% renewable energy share in transport by 2030
- **5.5% combined** sub-target for **advanced biofuels** (Annex IX Part A) and **RFNBOs**
- At least 1% RFNBOs in total transport energy consumption
- Renewable hydrogen in industry: 42% **RFNBO-based hydrogen** by 2030, rising to 60% by 2035
- Strong policy push towards e-fuels and the hydrogen economy, supporting hard-to-abate sectors



Italy - Legislative Decree of 9 January 2026, No. 5

- RED III transposition: the decree fully transposes Directive (EU) 2023/2413, strengthening the priority role of advanced biofuels and RFNBOs within the national framework.
- 29% renewables in transport: a binding 2030 target
- **5.5% advanced biofuels + RFNBOs**: correctly defined as a combined sub-target, with priority given to advanced biofuels from Annex IX, Part A.
- **RFNBO $\geq 1\%$ in transport**: a mandatory minimum share, confirmed by the decree as a direct implementation of RED III.
- Sustainability and GHG savings: the decree strengthens traceability, additionality, and lifecycle greenhouse-gas emission calculation criteria, in line with EU delegated acts.





Finland

- 34% renewable energy in transport by **2030**, exceeding the RED III minimum
- ~**10%** share of advanced fuels, **combining advanced biofuels** and **RFNBOs** under a dedicated transport sub-target
- ~**4% RFNBOs** in transport, well **above the EU minimum**, providing strong investment signals for hydrogen-based fuels
- Legally binding carbon-neutrality target by 2035
- European leader in e-fuels and synthetic fuels





Poland

- RED III implementation progressing and further measures under development
- National targets broadly aligned with the EU RED III framework, ensuring consistency with European objectives
- **5.5% combined** sub-target for **advanced biofuels** and **RFNBOs**, reflecting the baseline architecture of RED III
- Minimum **RFNBO** contribution of **≥1%** in transport, in line with EU requirements
- Continued significant contribution of biomass, leveraging domestic resources within the renewable fuel mix





Thank you for your attention!

Prof. Franco Cotana