



European
Commission



Clean Energy for all Europeans Package

A new framework for renewables post-2020

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The Clean Energy for All Europeans package

" In essence the new package is about tapping our green growth potential across the board"
Commissioner Miguel Arias Cañete (2016)



What are the goals?



**Putting energy
efficiency first**

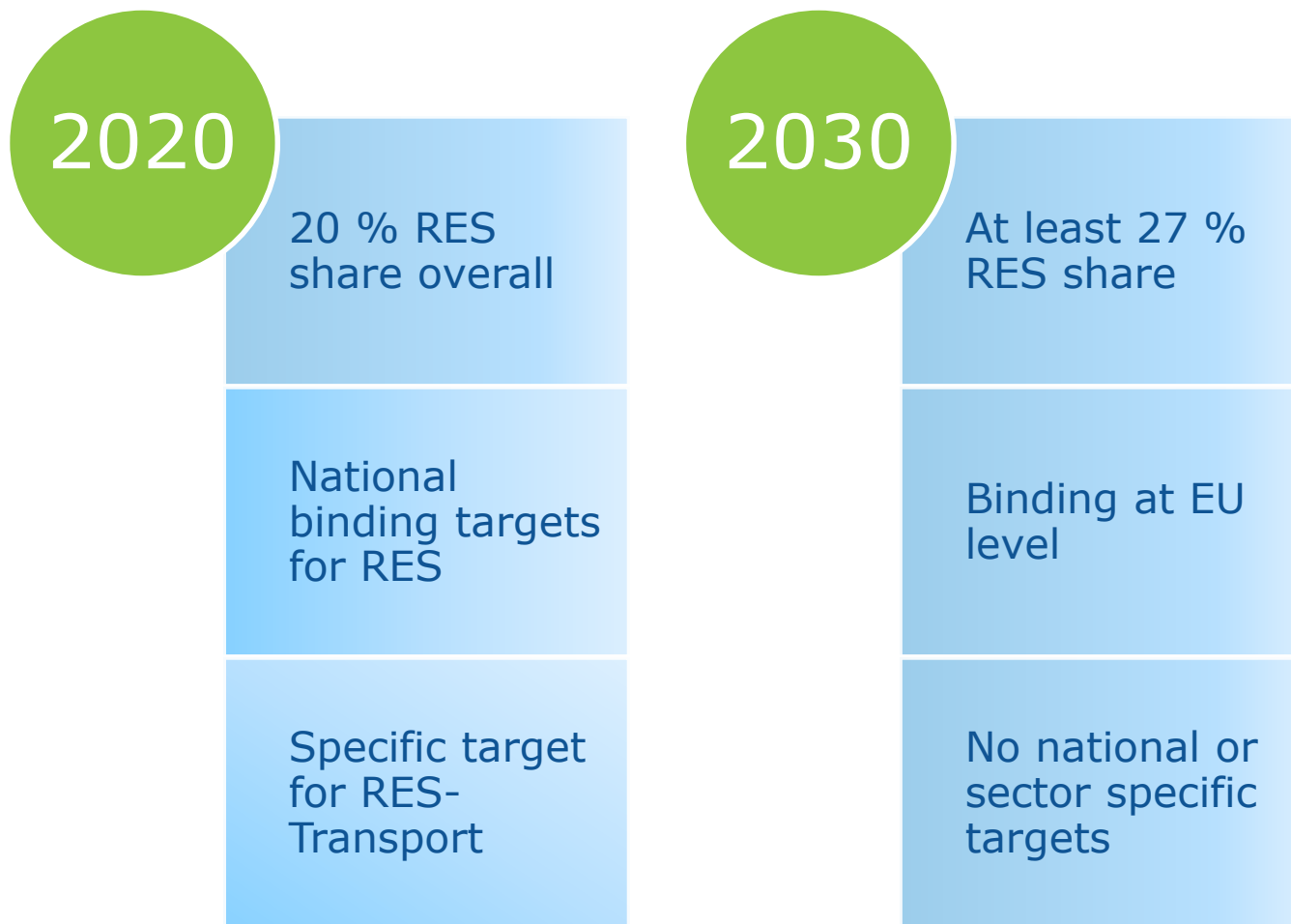


**Demonstrating
global leadership in
renewables**

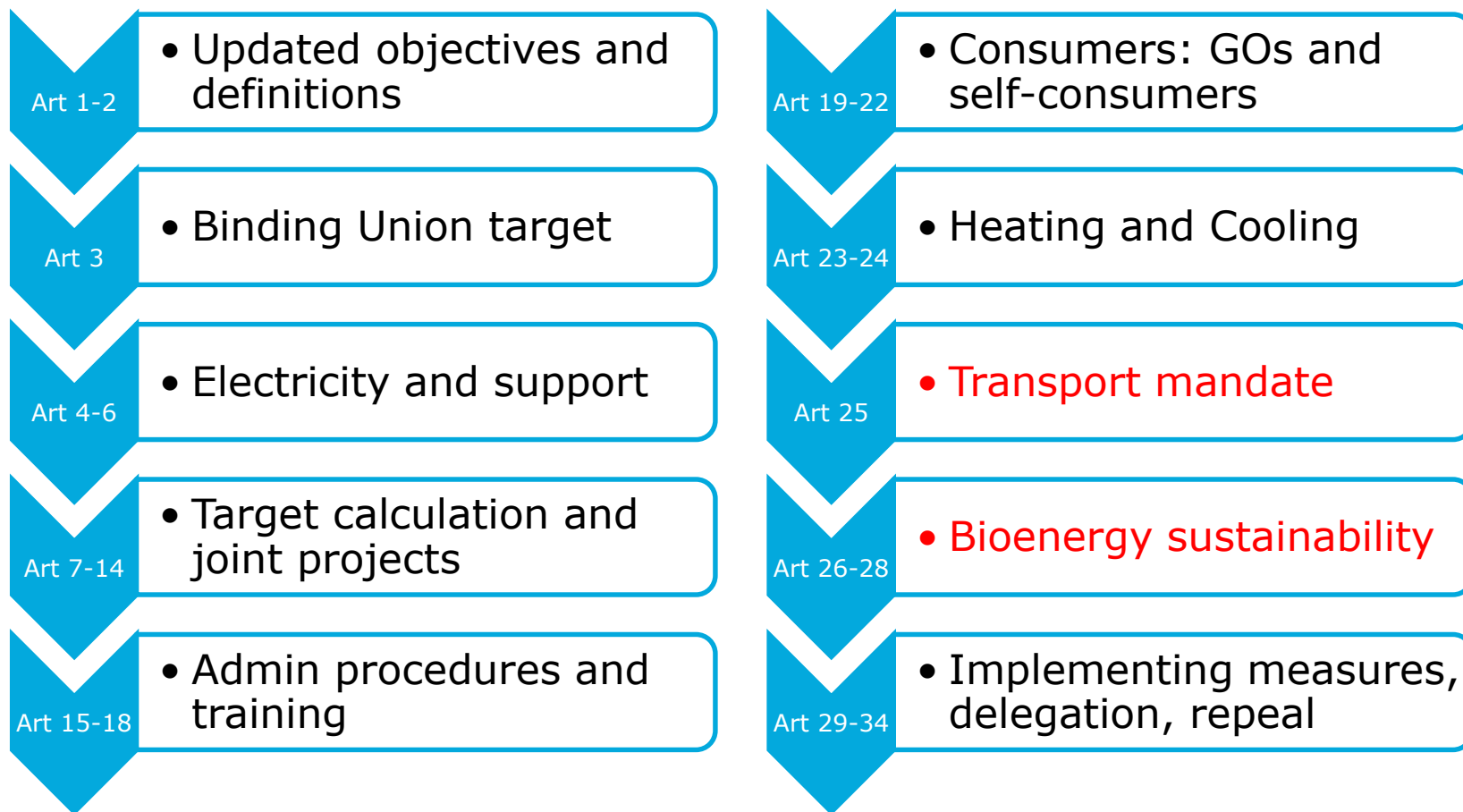


**Delivering a fair
deal for consumers**

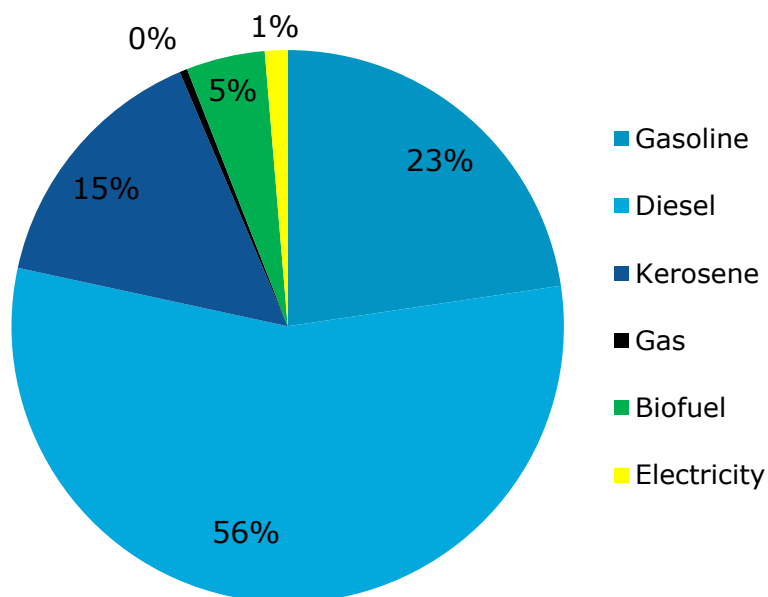
Framework for the RED II Proposal



Red II proposal: overview



RES in transport – the challenges

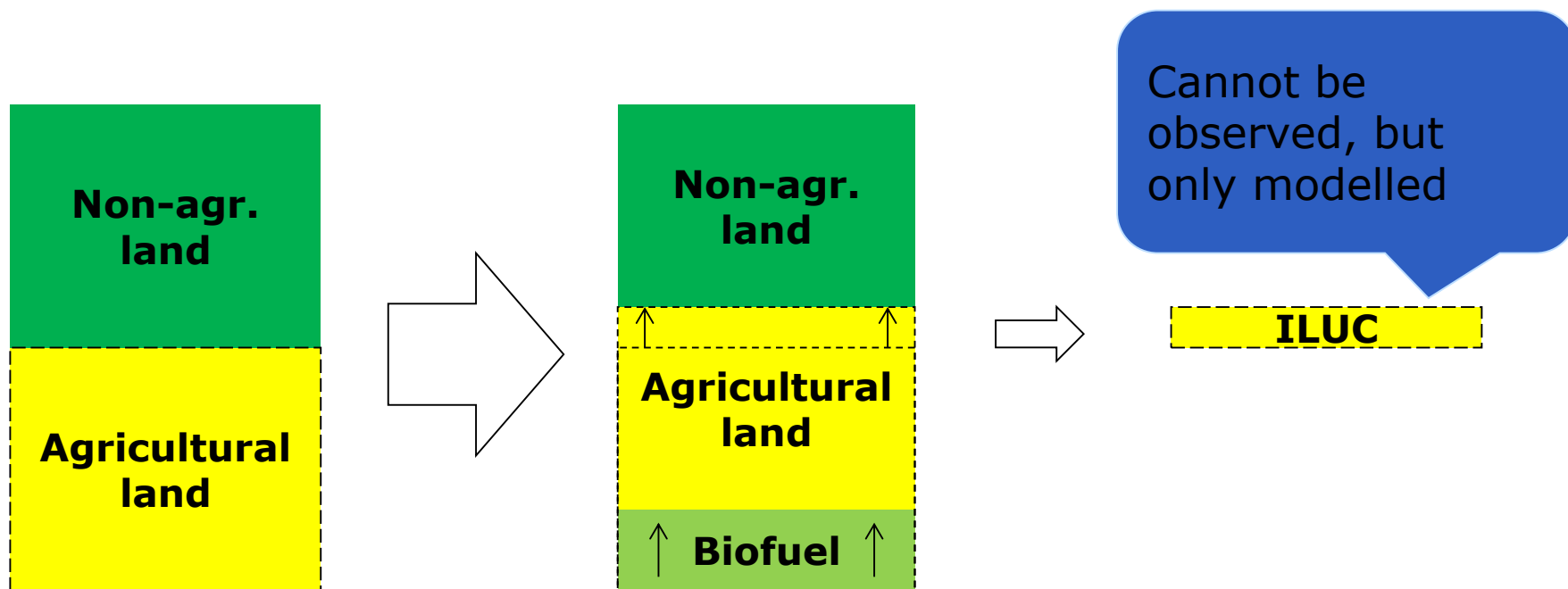


Climate emissions, energy diversification:

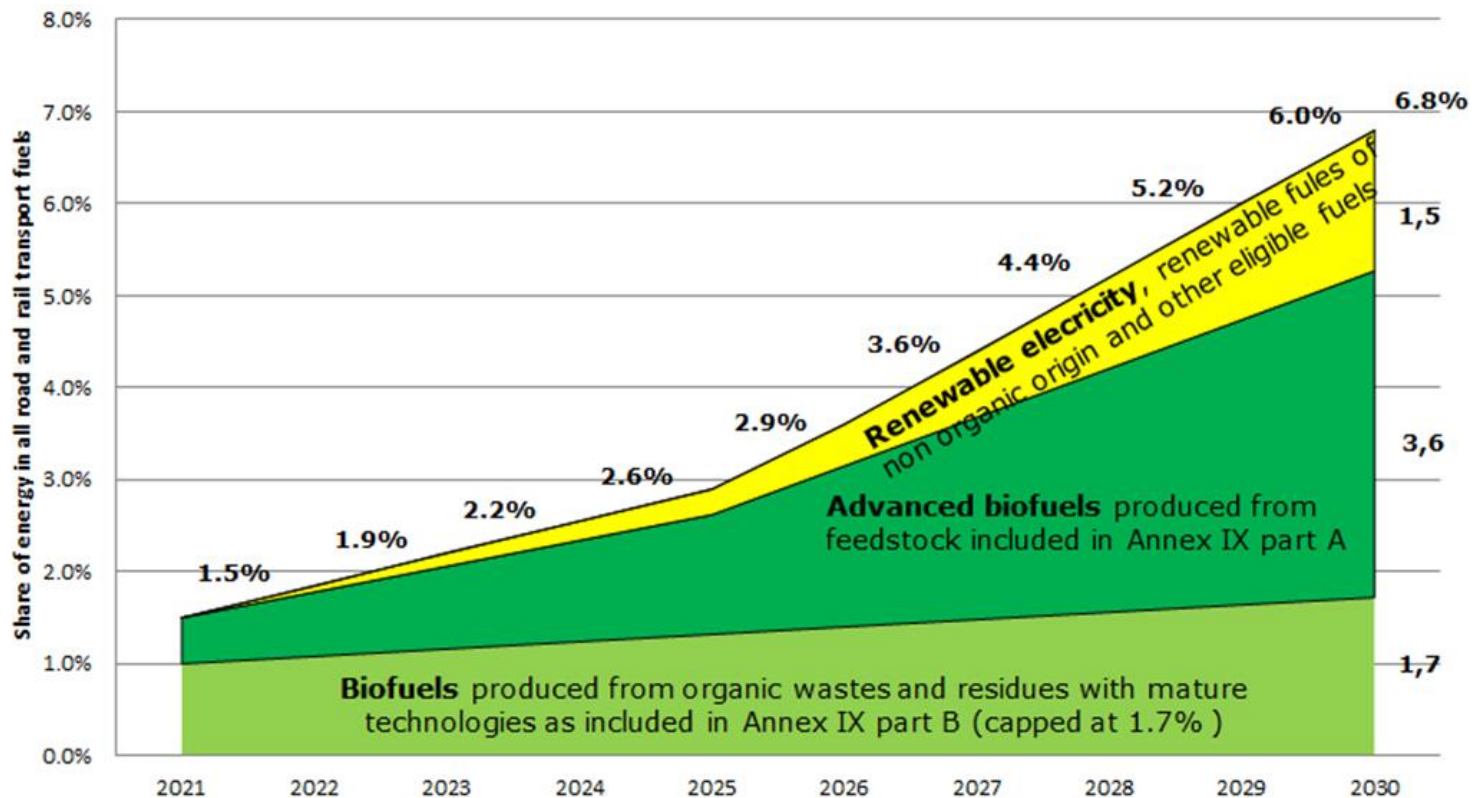
- 32% of final energy consumption
- Relies on oil for 94% of its energy needs.
- Increasing share of total GHG emissions (23% in 2014)
- GHG emissions remain higher than in 1990.

Source: Primes, 2015 shares in transport energy consumption

Indirect land use change (ILUC)



Our proposal: promoting innovation in transport



Increasing the share of low carbon and renewable fuels in transport to 6.8% by 2030 through an EU incorporation obligation for transport fuel suppliers

EU incorporation obligation for fuel suppliers

Scope:

- Advanced biofuels (produced from feedstock listed in Annex IX part A)
- Biofuels and biomethane produced from feedstock listed in Annex IX part B
- Renewable fuels of non-biological origin
- Fuels produced from fossil waste
- Not covered: conventional biofuels produced from food and feed crops

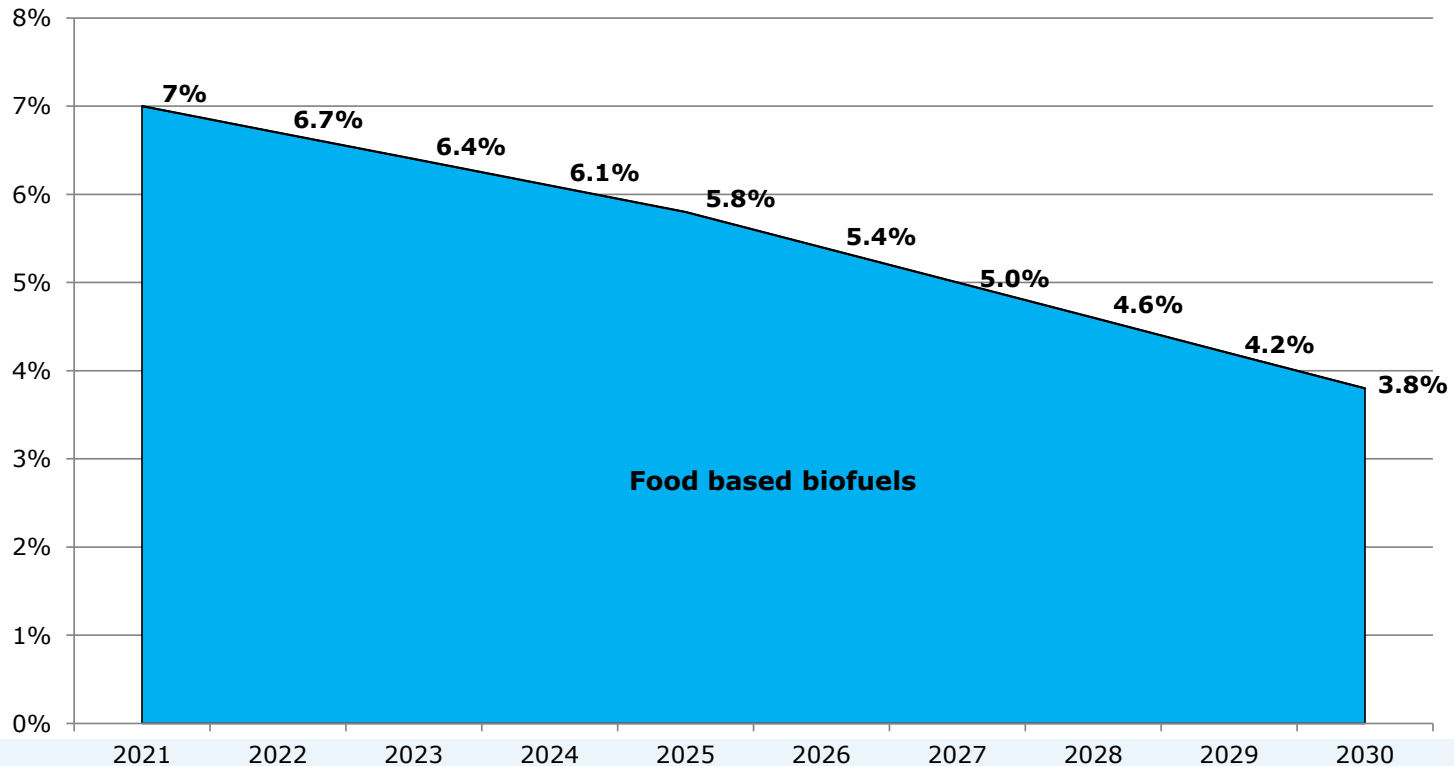
Obligated party: Fuel suppliers

Ambition level increases from 1.5% in 2020 to 6.8% in 2030:

- Ring-fencing of advanced biofuels (at least 3.6% by 2030)
- 1.7% cap on biofuels produced from Annex IX part B feedstock
- 20% bonus for fuels consumed in maritime and aviation sectors

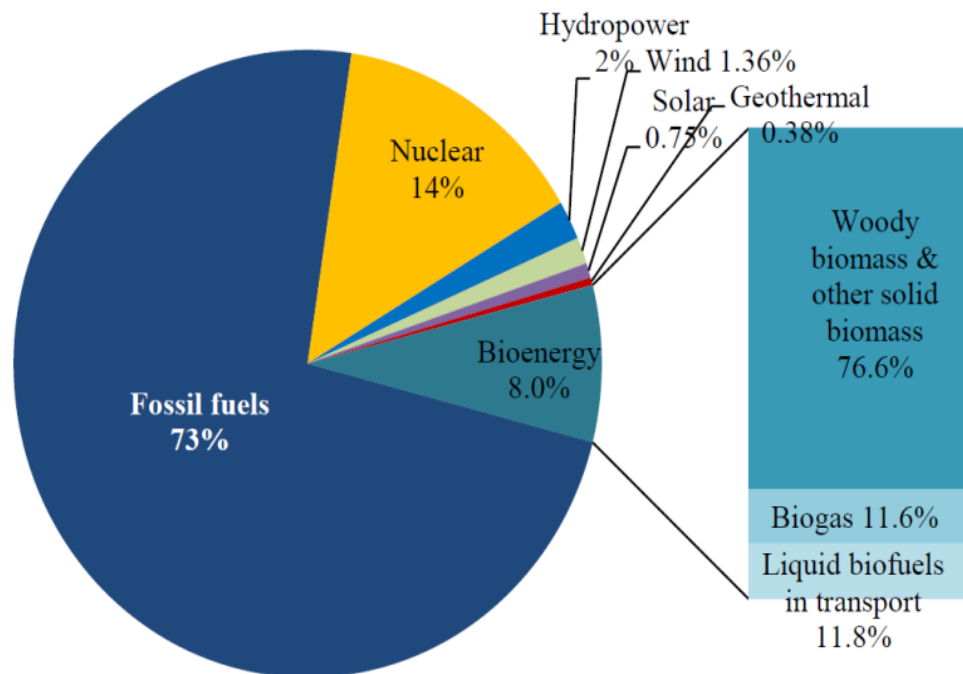
Biofuels must achieve 70% GHG emission savings

Our proposal: gradual phase-out of crop based biofuels



- **Gradual phase out of crop-based biofuels from 7% in 2020 to 3.8% in 2030, effectively bringing the conventional biofuel use to pre-2008 levels.**
- **Member States may set a lower limit and may distinguish between different types of biofuels for instance by setting a lower limit for the contribution from food or feed crop based biofuels produced from oil crops, taking into account indirect land use change.**

Bioenergy sustainability – the challenges



EU sustainability criteria for biofuels, not for biomass and biogas in heat and power

Clear benefits in terms of energy security, growth and jobs, technology innovation, and climate action.

Emerging risks:

- **Climate performance** of forest biomass depending on future trends on forest management practices
- **Environmental impacts** (e.g. biodiversity, soil and air quality)
- **Low end-use efficiency** of biomass in electricity generation
- **Administrative burden** of different national sustainability rules

Our proposal: strengthening the EU sustainability criteria

- *Sustainability criteria for same feedstock, independent of final use*
- *End use performance criteria for biofuels, biomass and biogas*

Sustainability criteria

agri

agriculture biomass – kept/streamlined existing sustainability criteria (e.g. no-go areas) (full harmonization)

forest

forest biomass – new risk-based criteria on biodiversity and carbon management (minimum requirement, Member States can go beyond)

End-use performance criteria

GHG

biofuels/bioliquids - GHG savings increased to 70% for new installations
heat and electricity from biomass (20 MW_{fuel}) and **biogas** (0.5 MW_{el}) - new GHG saving requirement: 80% for new plants in 2021 (85% in 2026)

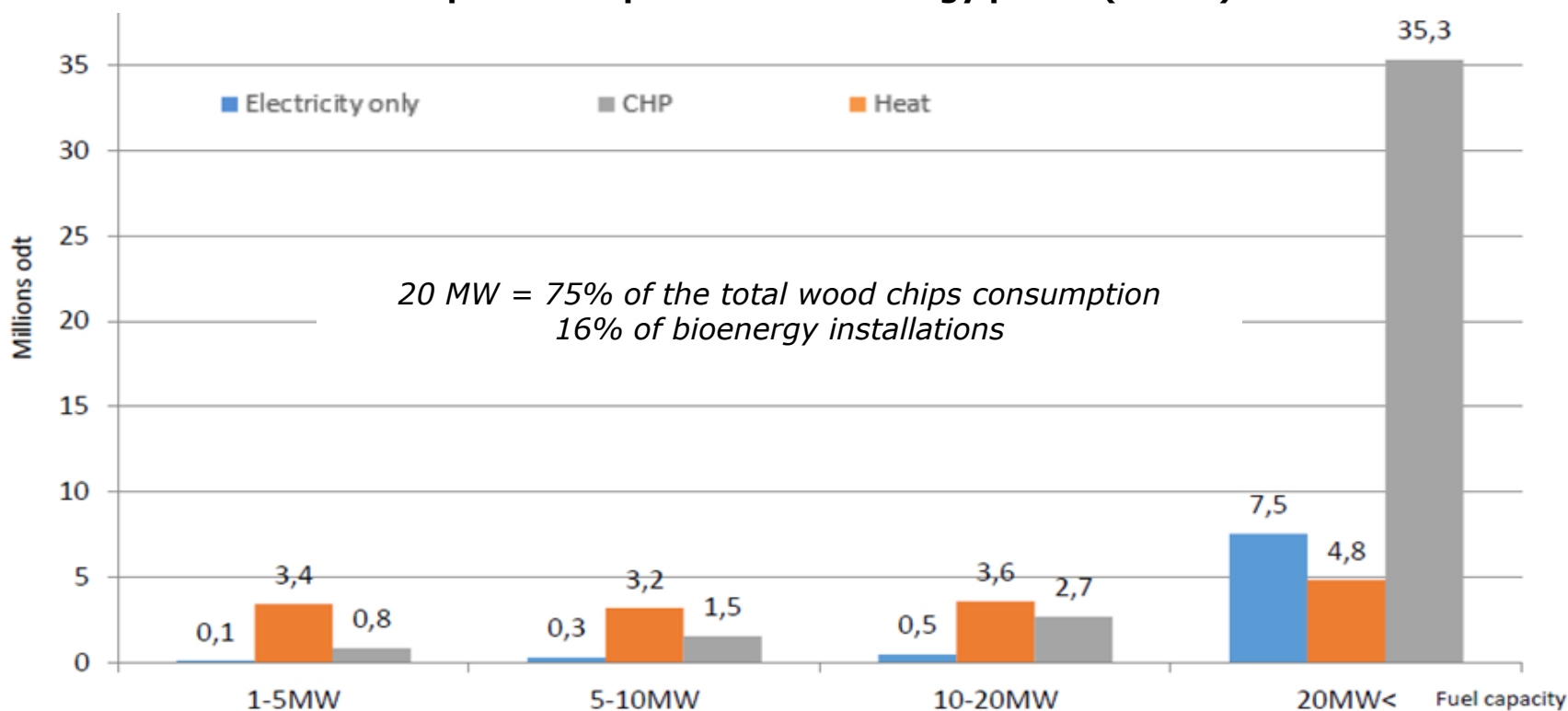
efficiency

Cogeneration requirement for all new bioelectricity plants (20 MW_{fuel}), 3-year transition period + exceptions for security of supply.

EU sustainability criteria for bioenergy- scope

- Biofuels: all installations (as in the current RED)
- Heat and power from biomass: 20 MW fuel capacity and above
- Heat and power from biogas: 0.5 MW electrical capacity and above
- Members States may apply lower thresholds

Wood chips consumption in EU bioenergy plants (Mtons)





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THANK YOU!

<https://ec.europa.eu/energy/en>

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