

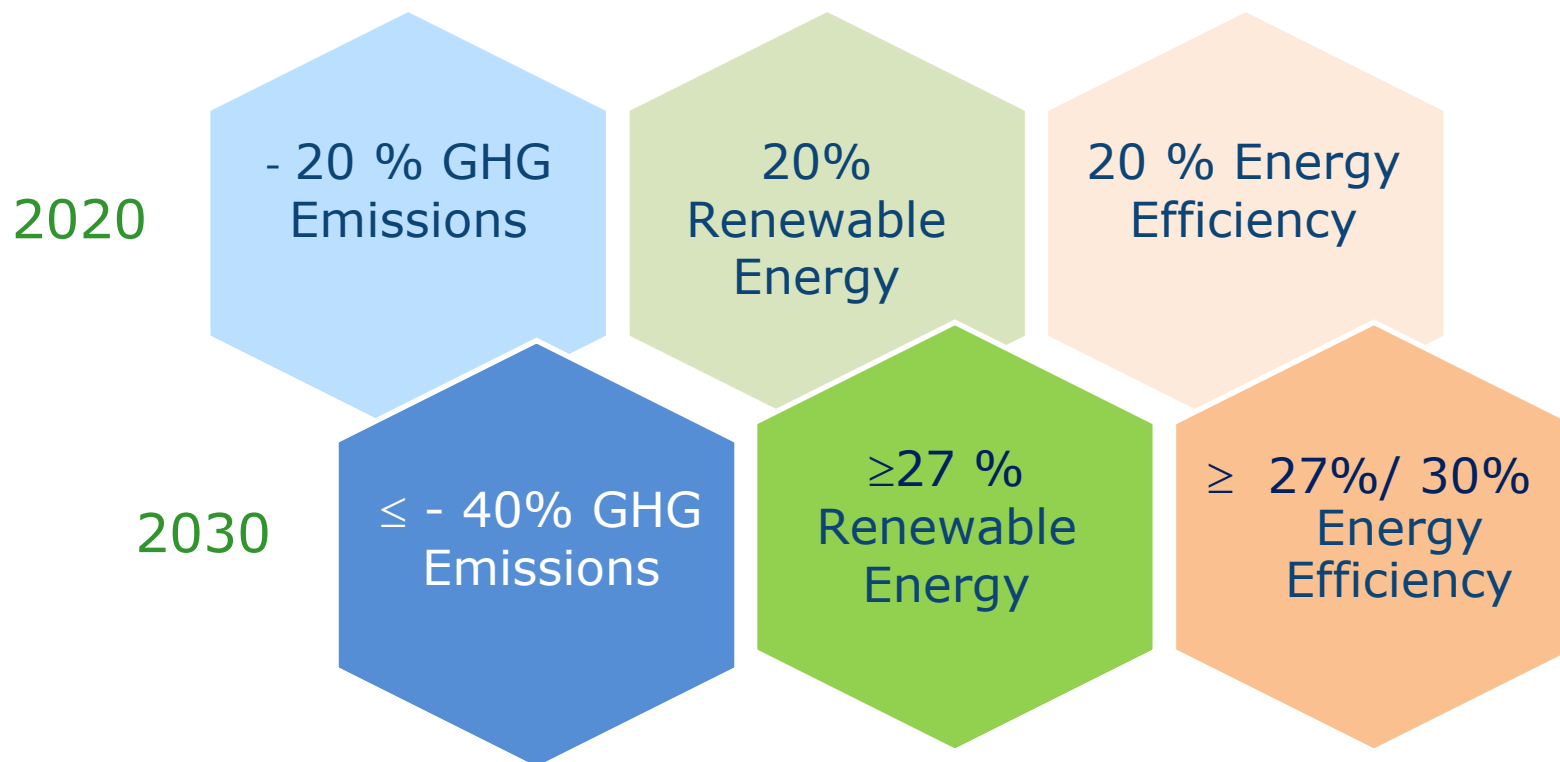


CLEAN ENERGY FOR ALL EUROPEANS

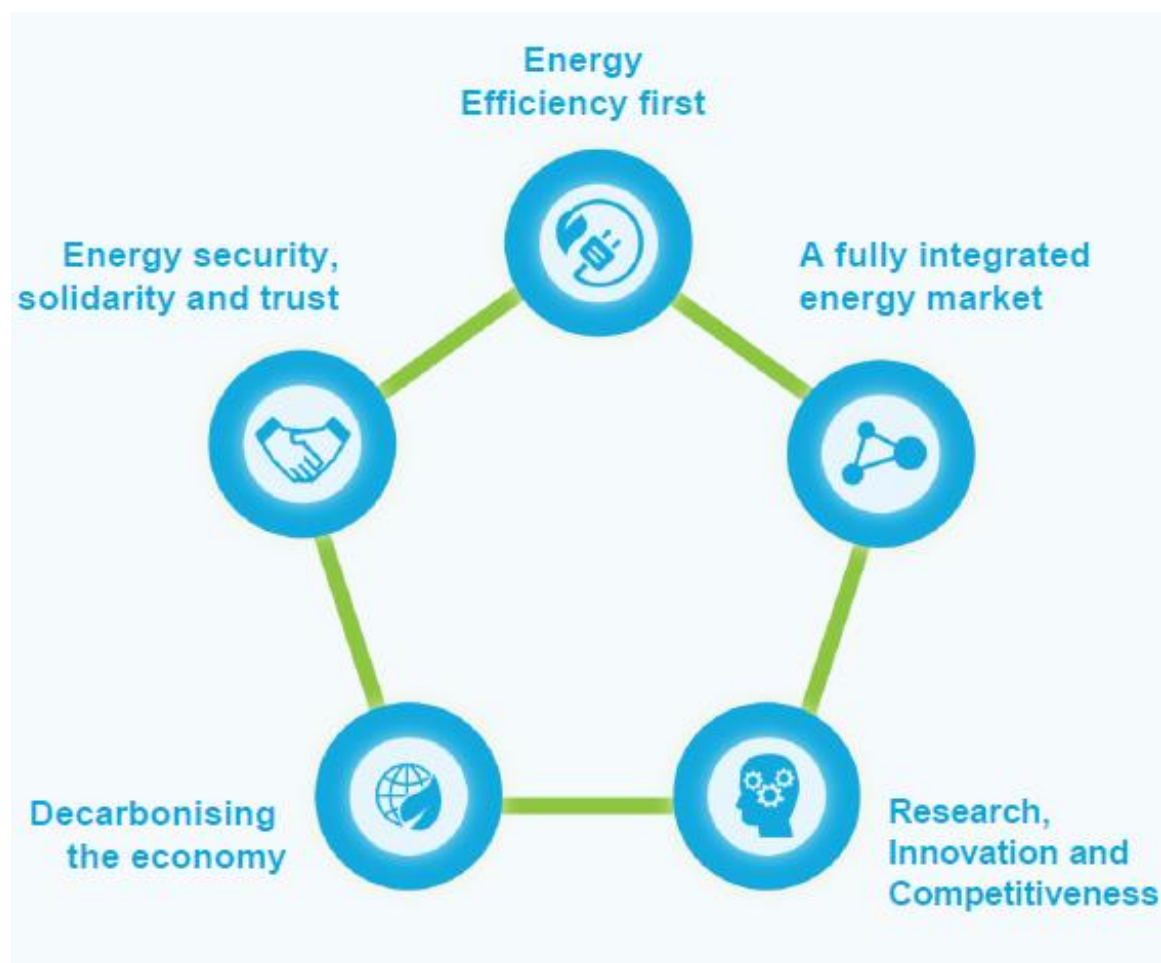
THE ROLE OF BIOENERGY

Giulio Volpi
European Commission, DG Energy

2020-2030 CLIMATE AND ENERGY TARGETS



AN ENERGY UNION BASED ON 5 MUTUALLY SUPPORTIVE AND INTERLINKED DIMENSIONS



THE CLEAN ENERGY PACKAGE



**Energy Union
Governance**



Energy Efficiency
(Energy Efficiency
Directive, Energy
Performance of
Buildings Directive)



Renewables
(Revised Renewable
Energy Directive)



**New Electricity
Market Design**
(including Risk
Preparedness)



**Energy prices
and costs
report**



HOW DOES IT LOOK LIKE?



GOALS OF THE CLEAN ENERGY PACKAGE

CREATING JOBS & GROWTH, REDUCING GHG EMISSIONS, SECURING ENERGY SUPPLY



**Energy
efficiency first**



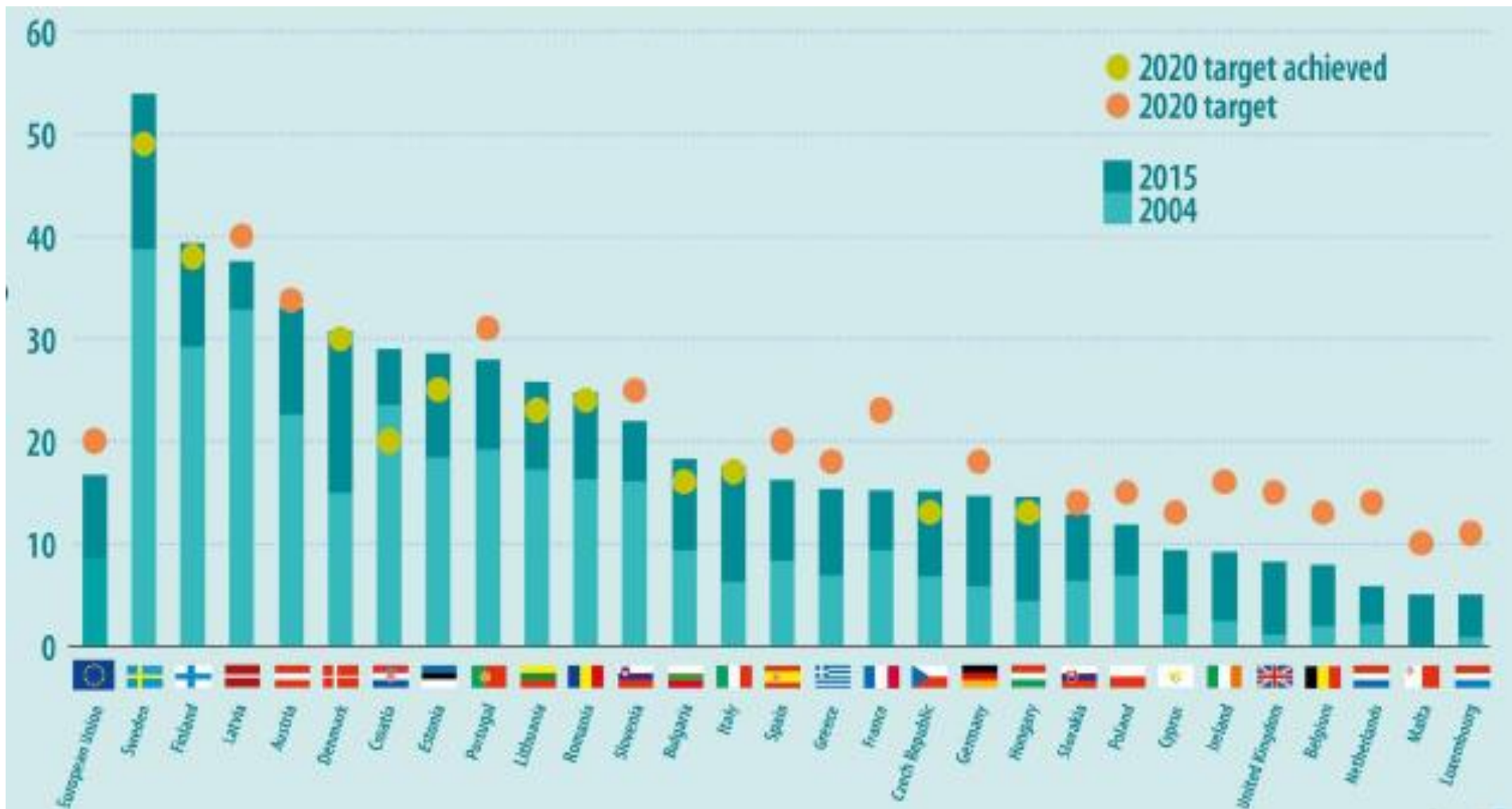
**Global leadership in
renewables**



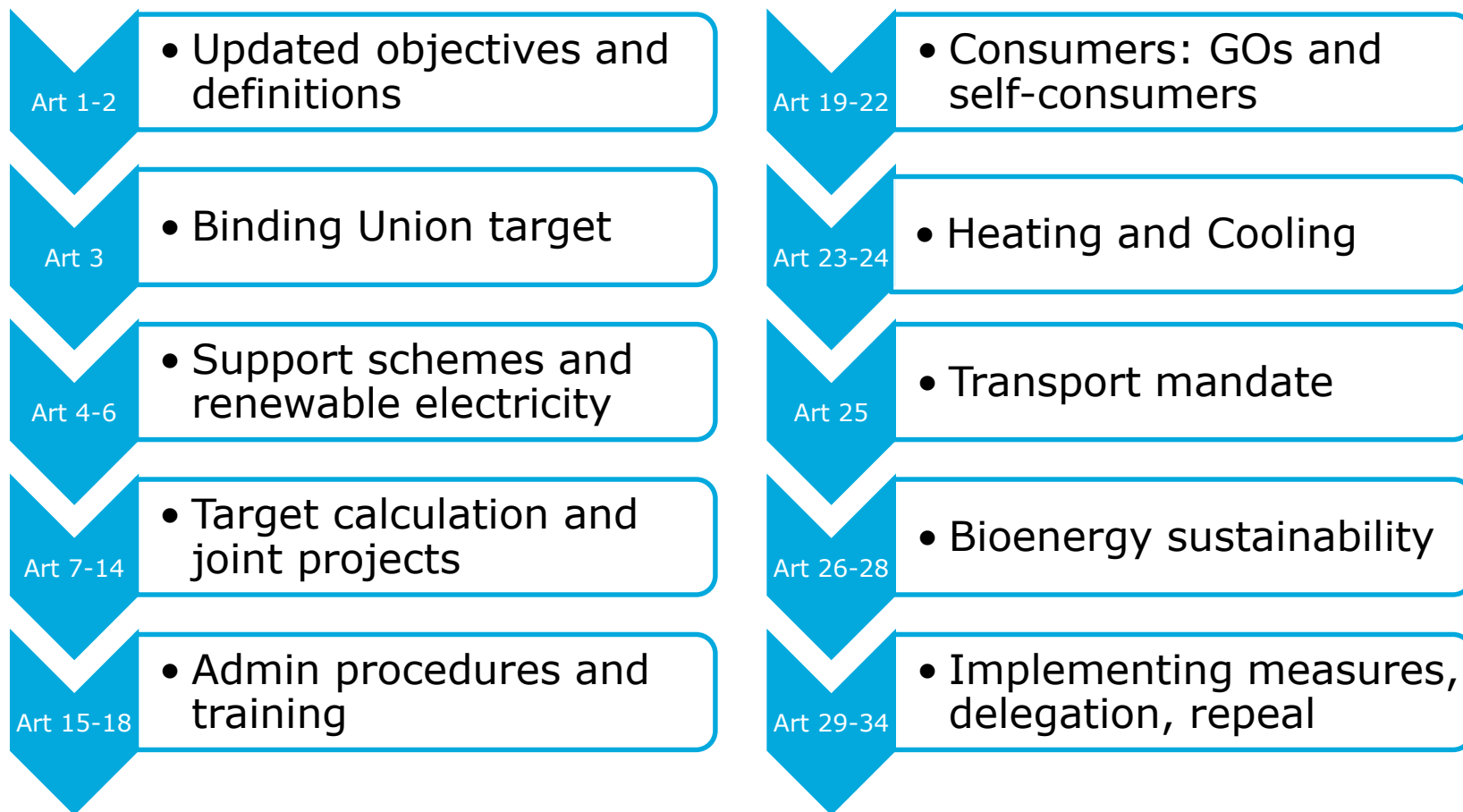
**Putting
consumers at
the centre**

PROGRESS ON RENEWABLE ENERGY TARGETS

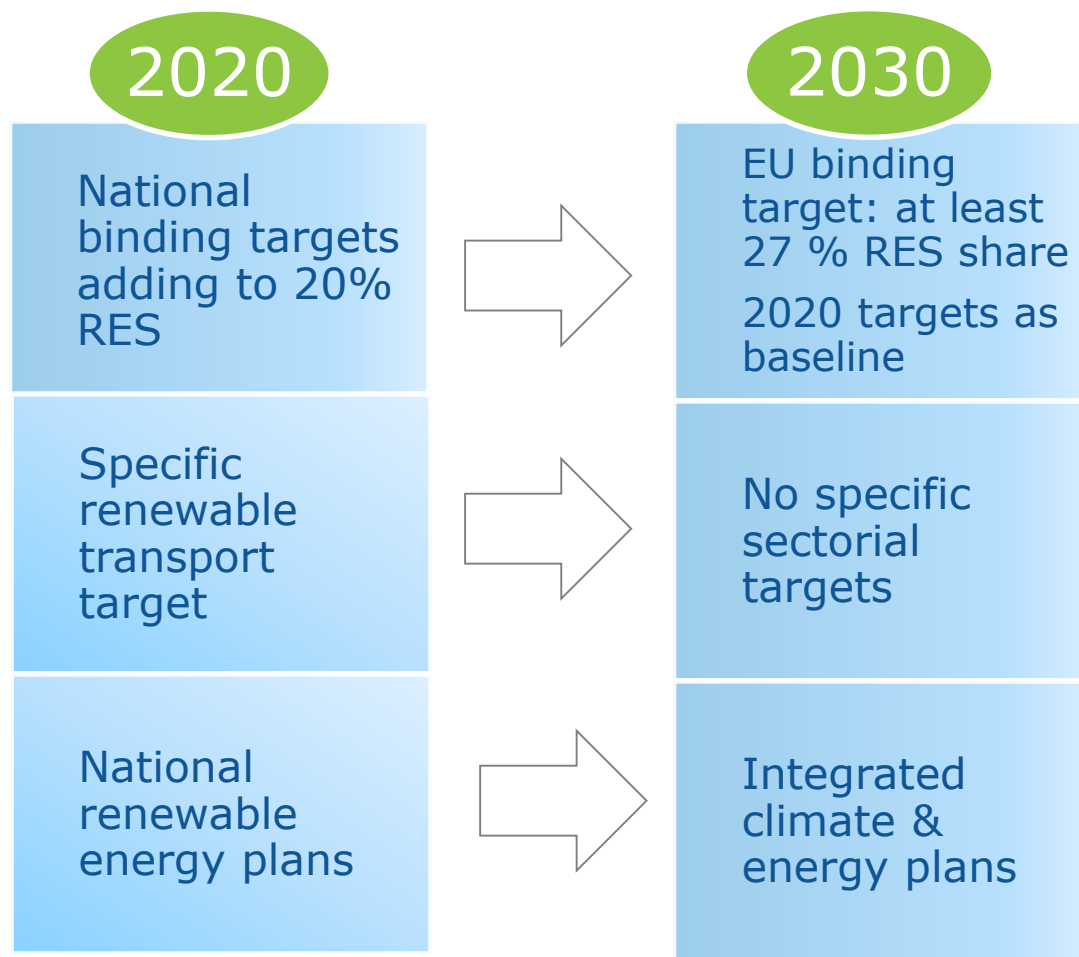
- Renewables share in energy consumption at almost 17% in 2015
- 11 Member States already achieved their 2020 targets



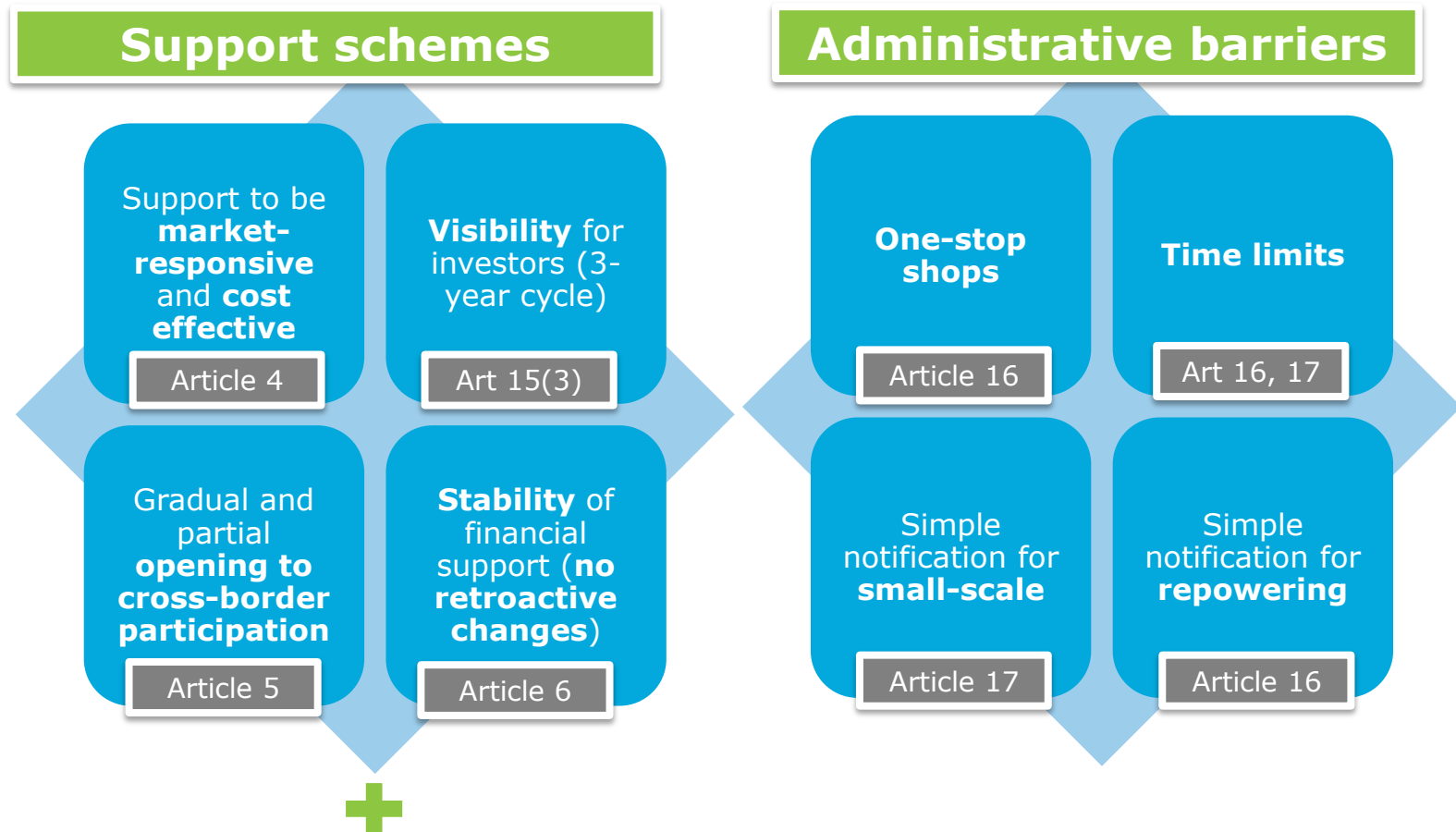
THE REVISED RENEWABLE ENERGY DIRECTIVE



TOWARDS A NEW CLEAN ENERGY GOVERNANCE



ADDRESSING ECONOMIC AND ADMINISTRATIVE BARRIERS



STATE AID RULES

1. Guidelines
2. Case by case notifications to and assessment by DG COMP

EMPOWERING CITIZENS AND COMMUNITIES



Renewable self-consumers to be allowed to generate, store, sell and consume their own electricity (linked to art. 15 Electricity Directive)



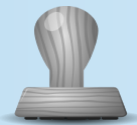
Renewable self-consumers **in multifamily houses** to be allowed to generate, store, sell and consume their electricity jointly



No disproportionate procedures and charges that are not reflective



Specific provisions for **energy communities** (linked to art. 15 Electricity Directive)

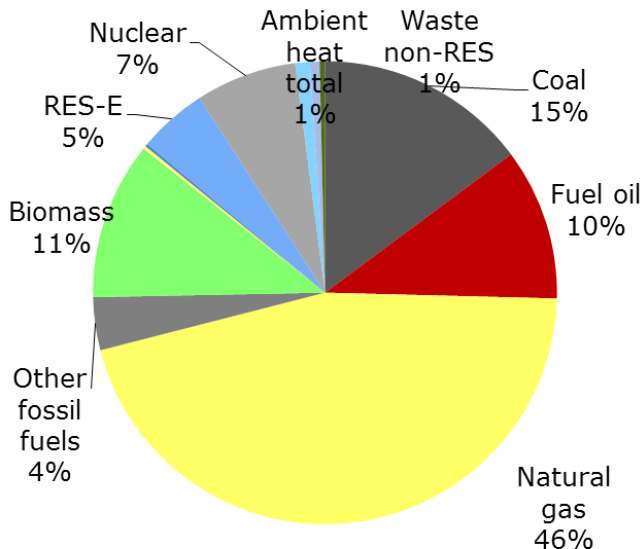


Improved Guarantees of Origin for better consumer information (art. 19)

PROMOTING RENEWABLES IN HEATING & COOLING

Why act at EU-level ?

- ≈ 50% energy consumption
- 18% RES today => 27% in 2030
- 68% of the EU's gas imports
- Risk of missing target if no action



Article 23 – RES in heating/cooling

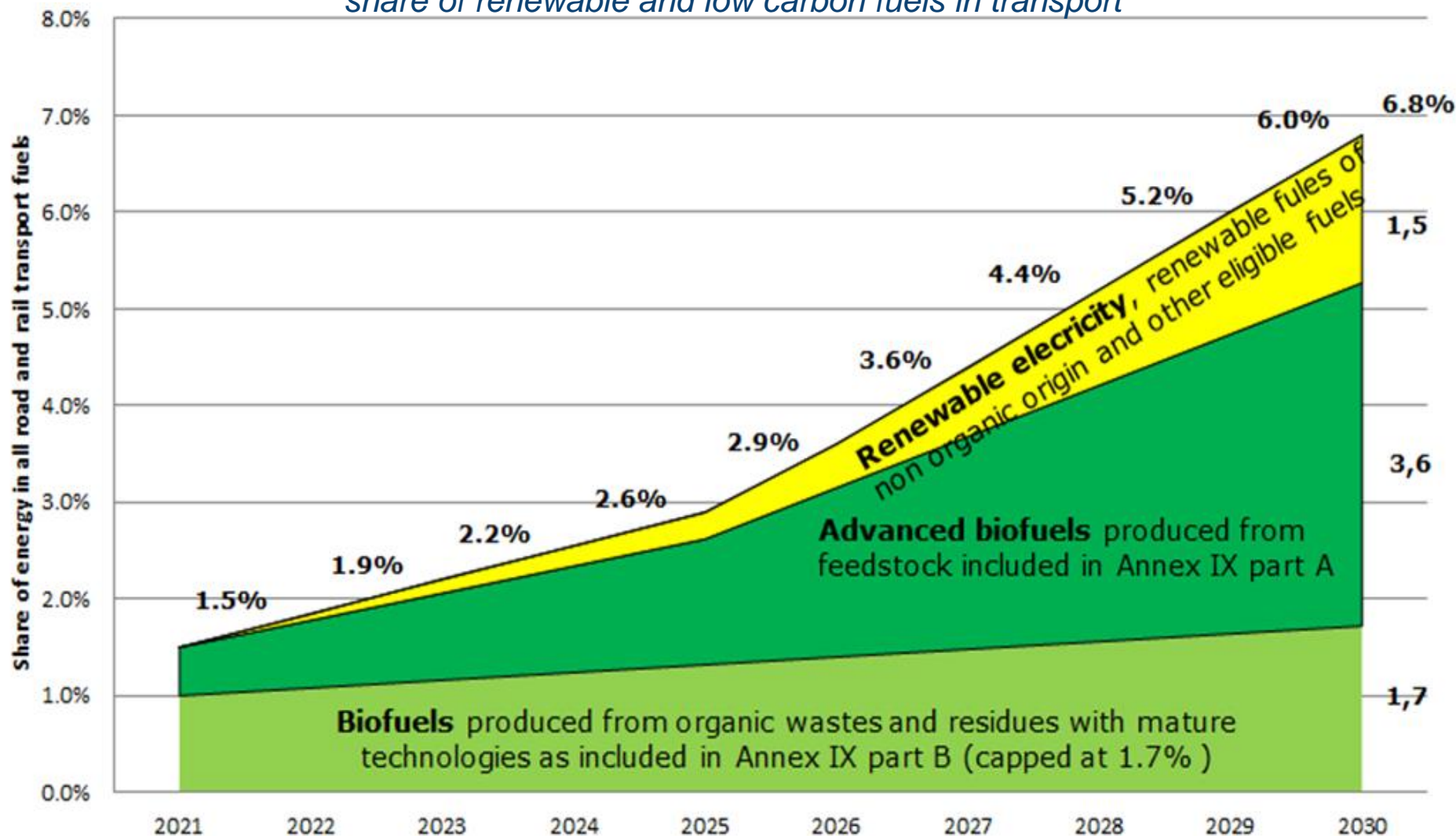
- MS "shall endeavour to increase" the share of RES-H&C by 1pp/year
- Flexibility on the measures
- Flexibility on implementing entities
- Possible combination with EED Art 7

Article 24 – District heating/cooling

- Consumers' information on DHC energy performance and RES share
- Consumers can disconnect, if they can achieve a higher performance, or switch within the DHC system to RES/waste heat suppliers
- Opens DHC for RES/waste energy suppliers

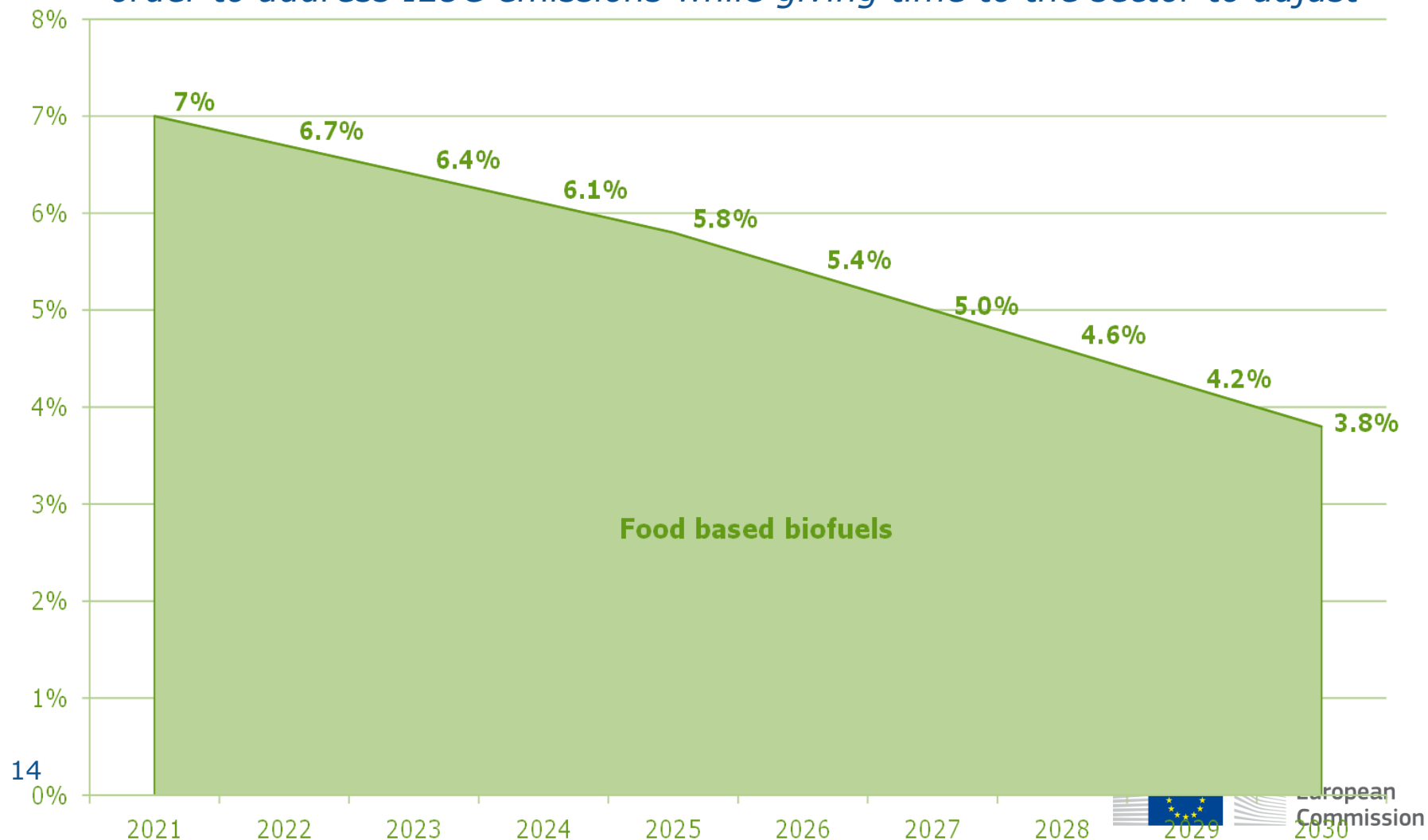
PROMOTING INNOVATION IN TRANSPORTS...

Moving from the RES-T target to a suppliers obligation to include an increasing share of renewable and low carbon fuels in transport

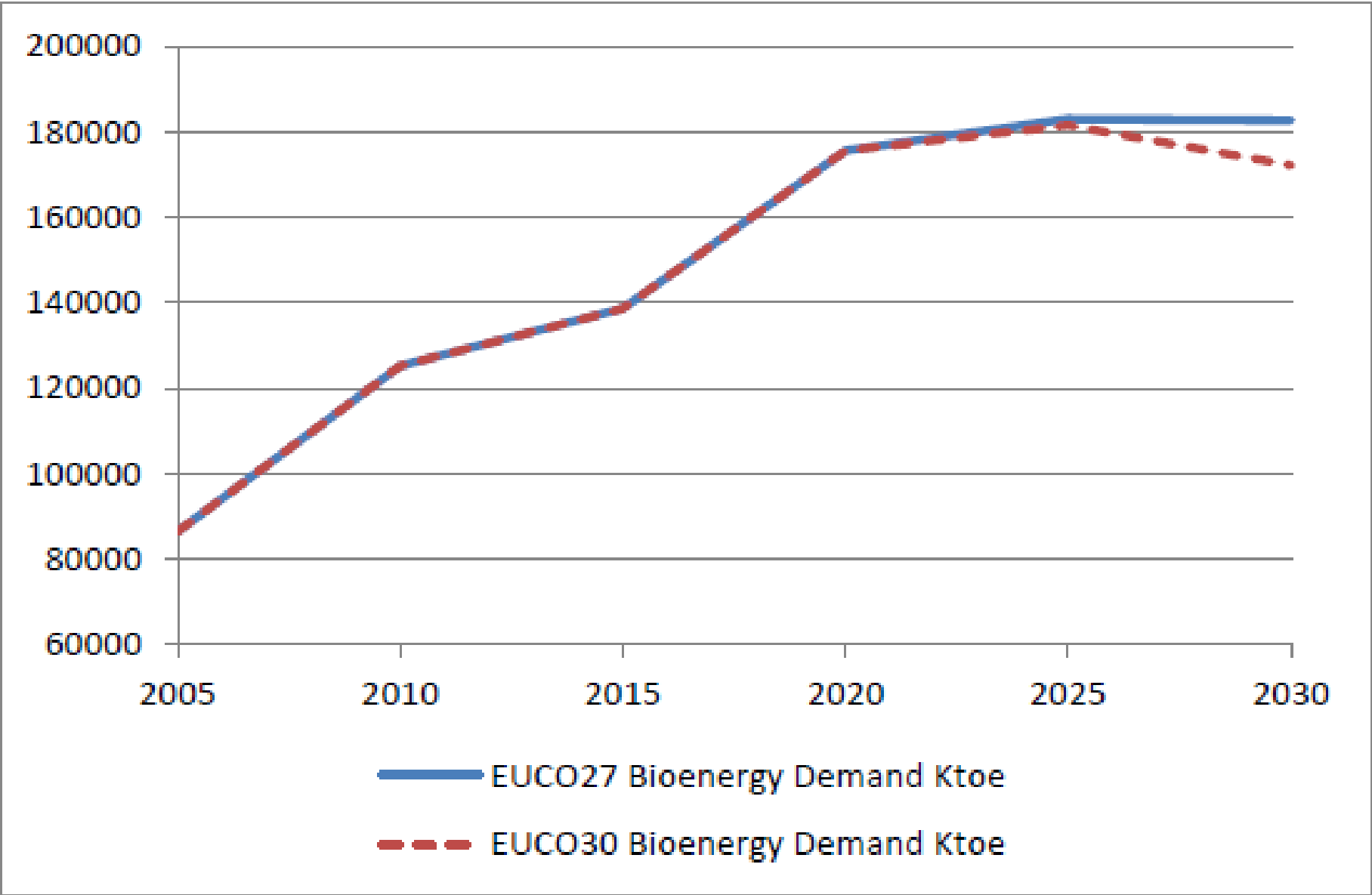


...WHILE MOVING AWAY FROM FOOD-BASED BIOFUELS

Gradual reduction of crop-based biofuels from 7% in 2020 to 3.8% in 2030 in order to address ILUC emissions while giving time to the sector to adjust



EU BIOENERGY DEMAND GROWTH (2005-2030, KTOE)



STRENGTHENED BIOENERGY 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/bioliquid - 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.

INTERACTIONS WITH OTHER PARTS OF THE PACKAGE

Governance Regulation

- Integrated national energy and climate plans (art 3, art 13)
- Integrated national energy and climate reports (art 15, art 18)
- Response to insufficient ambition and progress (art 27)
- Commission recommendations (art 28)

Electricity Regulation

- Balancing responsibility (art 4)
- Balancing market rules (art 5)
- DA and ID market rules (art 6-7)
- Priority dispatch (art 11)
- Priority access / curtailment (art 12)
- Network planning (art 12)
- T&D network tariffs (art 16)
- Network codes on curtailment + grid tariffs (incl. connection charges) + ancillary services (art 55)

Renewable Energy

Electricity Directive

- Entitlement to a dynamic price contract (art 11)
- Aggregators (art 13, art 17)
- Active / self-consumers' rights (art 15)
- Local energy communities' rights (art 16)
- Smart metering (art 19-21)
- Ancillary services by DSOs (art 31) and TSOs (art 40)
- Integration of electro-mobility in networks (art 33)

Energy efficiency

- Energy savings obligation (art 7)
- Metering obligations for H&C (art 9a)

Energy efficiency buildings

- Charging points / pre-cabling requirements (art 8)

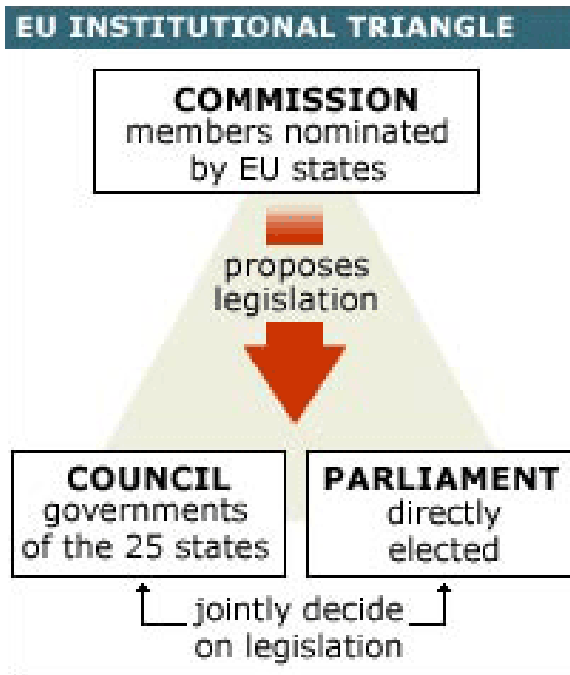
NEXT STEPS

The starting point



30 Nov 2016

The co-decision process



2017/2018

The goal

**Clean
energy for
all
Europeans**

**Growth
Jobs
Innovation**

**End 2018/Early
2019?**



THANK YOU!

<http://ec.europa.eu/energy/en/topics/renewable-energy>

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