

Proposal for a recast of the Renewables
Directive for the period after 2020

**30 November 2016** 

#### THE REVISED RES DIRECTIVE - MAIN OBJECTIVES



Contributing to the EU political priority of becoming world number 1 in renewables

&

Achieving the at least 27 %

**EU-level** binding

renewables target

cost-effectively



#### MOVING TO A COMPLETELY NEW AND MORE "COLLECTIVE" APPROACH

2020

20 % RES share overall

National binding targets for RES

Specific target for RES-Transport 2030

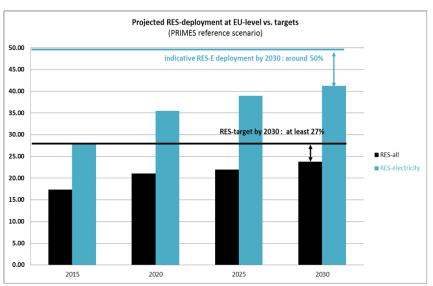
At least 27 % RES share

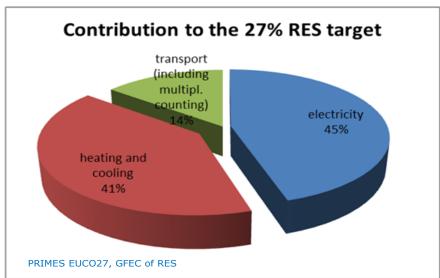
Binding at EU level

No national or sector specific targets



#### **EU LEVEL ACTION ACROSS THE 3 SECTORS IS REQUIRED**



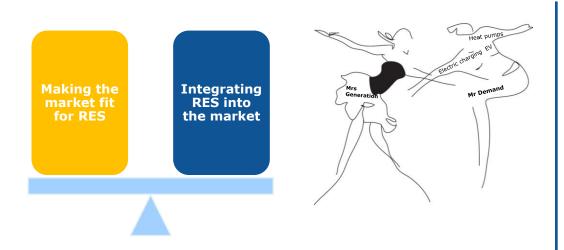


No additional action would lead only to 24.3 % RES, non-cost efficiently and unevenly spread across the EU

The modelling shows that for a cost-effective target achievement both Heating & Cooling and electricity will have to cover a major part of the effort



#### **ENSURING A HOLISTIC APPROACH ACROSS POLICY AREAS**



The new market design will be the foundation of the 2030 framework (short term markets, flexibility) and ensure RES generators can earn a high fraction of their revenues via the market

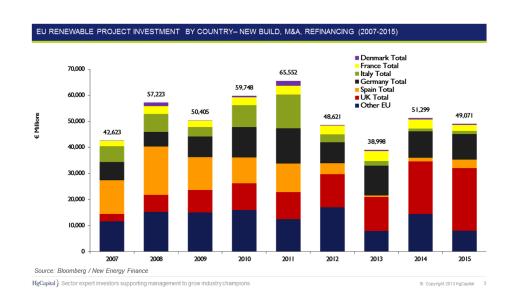


With the governance initiative underpinning the process across the 5 Energy Union dimensions

But also Energy Efficiency, Energy Performance of Buildings, Risk preparedness, the ETS and non-ETS proposals...



#### A MORE EVEN DEPLOYMENT WOULD BE MORE COST-EFFECTIVE



Investments are increasingly concentrated in a few Member States with low cost of capital and policy frameworks perceived as more stable

UK and Germany alone represented over 2/3 of all investments over 2013-2015

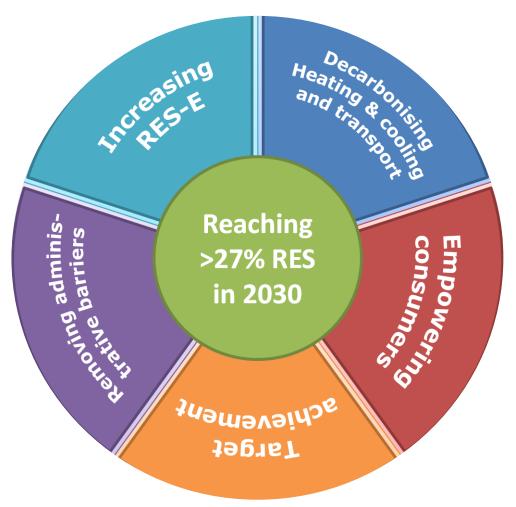
### Various measures can ensure a more even and more cost-effective deployment of RES across the EU

e.g. Financial instruments tackling cost of capital, no retroactive changes, open up support schemes...

	Baseline	EUCO27
RES share in 2030	27%	27%
Assumptions	National support; diverging cost of capital	EU-wide support; same cost of capital
RES investments required (2021-2030)	€ <b>404</b> bn	<b>◆ 240</b> bn
Share of top 3 MS in total investments	67%	47%



#### DELIVERING A SET OF WELL-BALANCED MEASURES ACROSS SECTORS





#### ADDRESSING THE UNTAPPED POTENTIAL OF HEATING & COOLING



**High untapped potential**: a major contribution of renewable Heating and Cooling (i.e. 40%) is crucial for a cost-optimal target achievement

Risk of **missing the target** in the absence of action: the Heating and Cooling obligation would deliver one fourth of the total gap to reach the at least 27% RES target by 2030

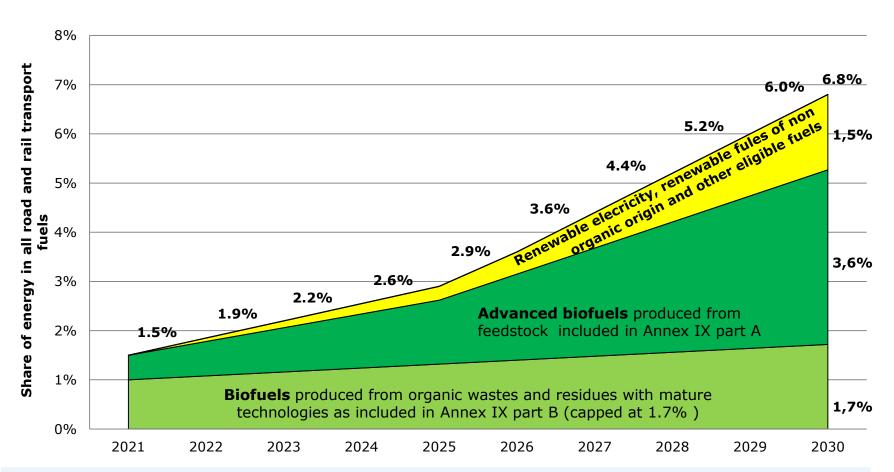
Need to provide visibility and certainty to investors



Options for Member States aimed at increasing the share of renewable heat by **1** percentage point in final energy consumption./-



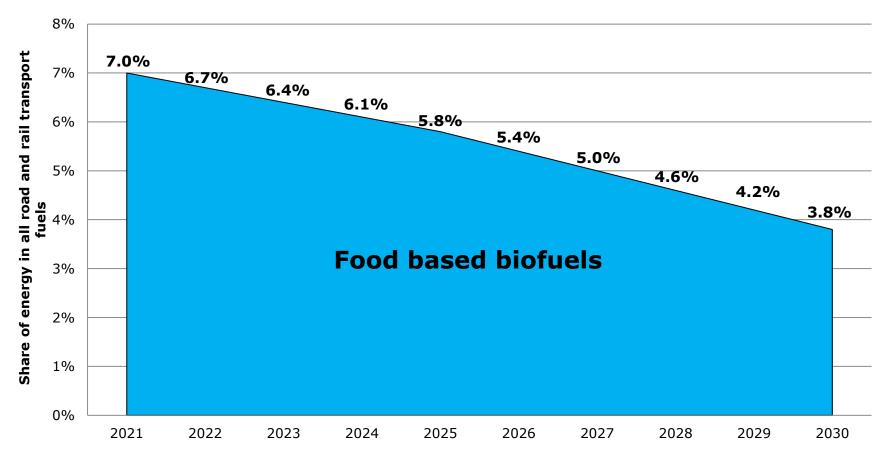
#### PROMOTING INNOVATION IN TRANSPORT



A EU blending mandate to increase the share of low carbon and renewable fuels in transport



#### ADDRESSING INDIRECT LAND USE CHANGE CONCERNS



A EU cap for gradually reducing the share of food-based biofuels by 2030



#### STRENGTHENED EU BIOENERGY SUSTAINABILITY

## **Biomass** production

Improved sustainability criteria for agriculture biomass



New **sustainability criteria for forest biomass** (2-step approach)



# Biomass end-use performance

GHG emission saving requirements for biofuels and large-scale biomass in heat and electricity









#### **ACHIEVING AT LEAST 27 % RENEWABLES AT EU LEVEL**

