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Commission



THE CLEAN ENERGY FOR ALL EUROPEANS PACKAGE

***Renewables Directive and
Energy Efficiency Directive
for the period after 2020***

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GOALS OF THE CLEAN ENERGY FOR ALL EUROPEANS PACKAGE

LEADING THE ENERGY TRANSITION - CREATING VALUE FOR CITIZENS AND BUSINESS



Putting energy efficiency first



Demonstrating global leadership in renewables



Delivering a fair deal for consumers

HOW DO WE GET THERE?

The right regulatory framework for post – 2020



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

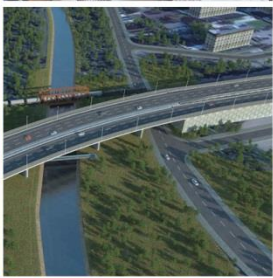
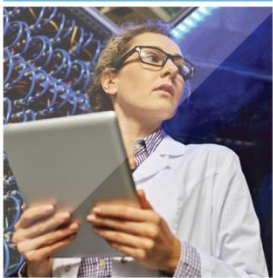
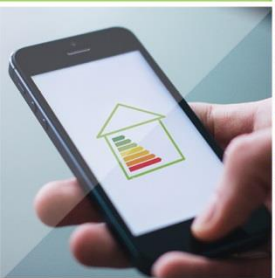


Enabling Framework





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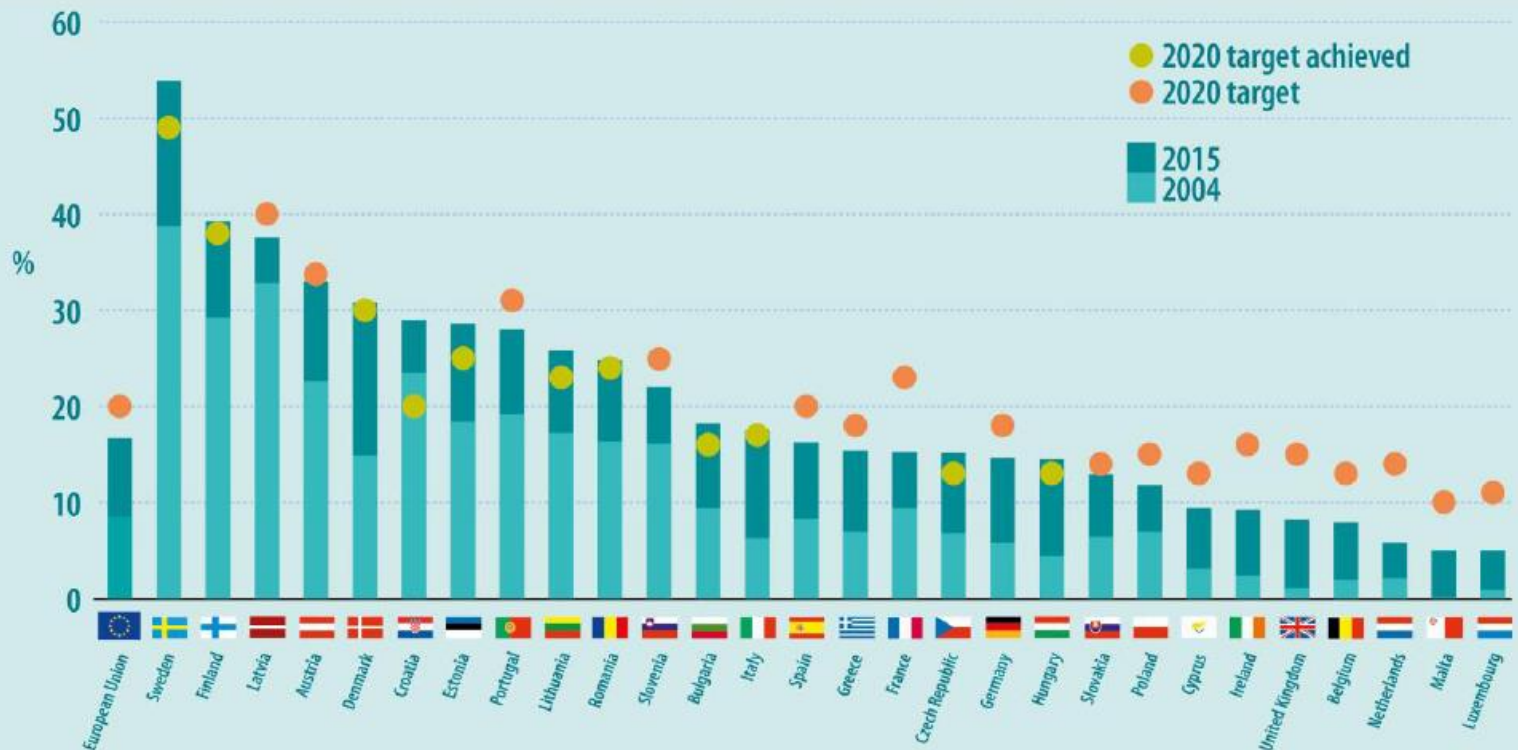
Renewables Directive



PROGRESS TOWARDS NATIONAL RES TARGETS

Share of energy from renewable sources in the EU Member States

(in % of gross final energy consumption)



THE REVISED RES DIRECTIVE POST-2020 - CONTEXT

More than **1 million people** work in the renewable energy sector, with potentially **3 million more jobs by 2020**



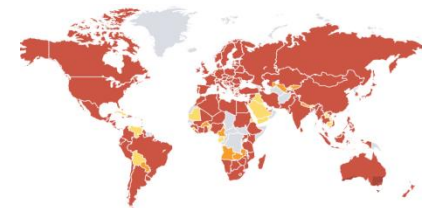
Reduced **dependence on fossil fuels** and **energy imports**: cut fossil fuels use by the equivalent of **Poland's entire** annual energy **consumption**



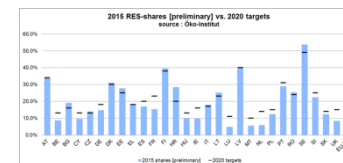
Renewables are becoming **affordable**: 80% decrease of **PV panel prices** in 5 years, **offshore wind** already met targets for 2020



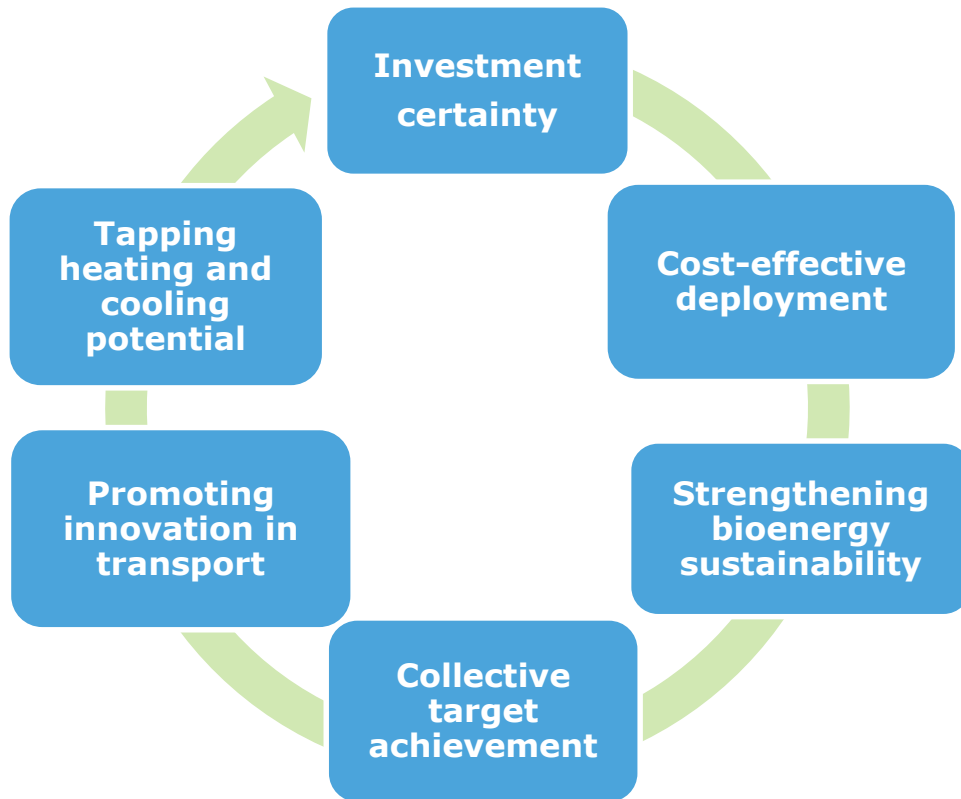
European leadership: in 2016 **173 countries** have renewable energy targets



With an estimated renewable energy share of 17% of gross final energy consumption in 2015 the **EU is on track to meet the 2020 target**



THE REVISED RES DIRECTIVE POST-2020 – KEY OBJECTIVES



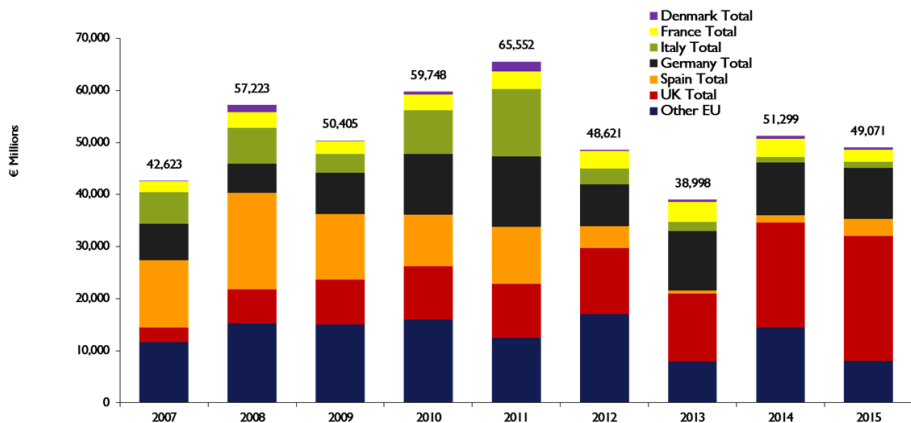
Contributing to the EU political priority of **becoming world number 1 in renewables**

&

Achieving the at least 27 % EU-level binding renewables target cost-effectively

A MORE EVEN DEPLOYMENT ACROSS MEMBER STATES IS CRUCIAL

EU RENEWABLE PROJECT INVESTMENT BY COUNTRY- NEW BUILD, M&A, REFINANCING (2007-2015)



Source: Bloomberg / New Energy Finance

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

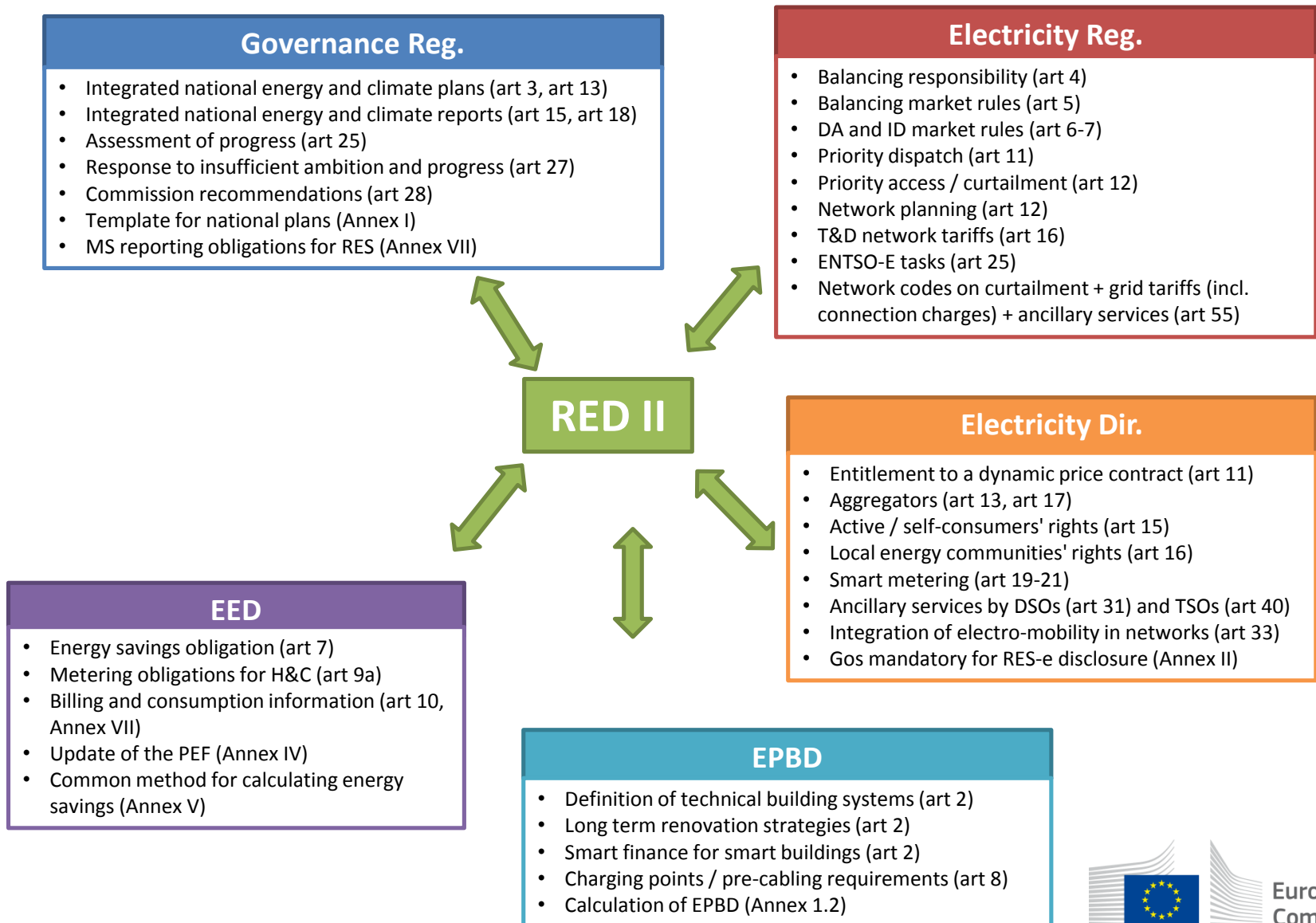
UK and Germany alone represented over 2/3 of all investments over 2013-2015

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

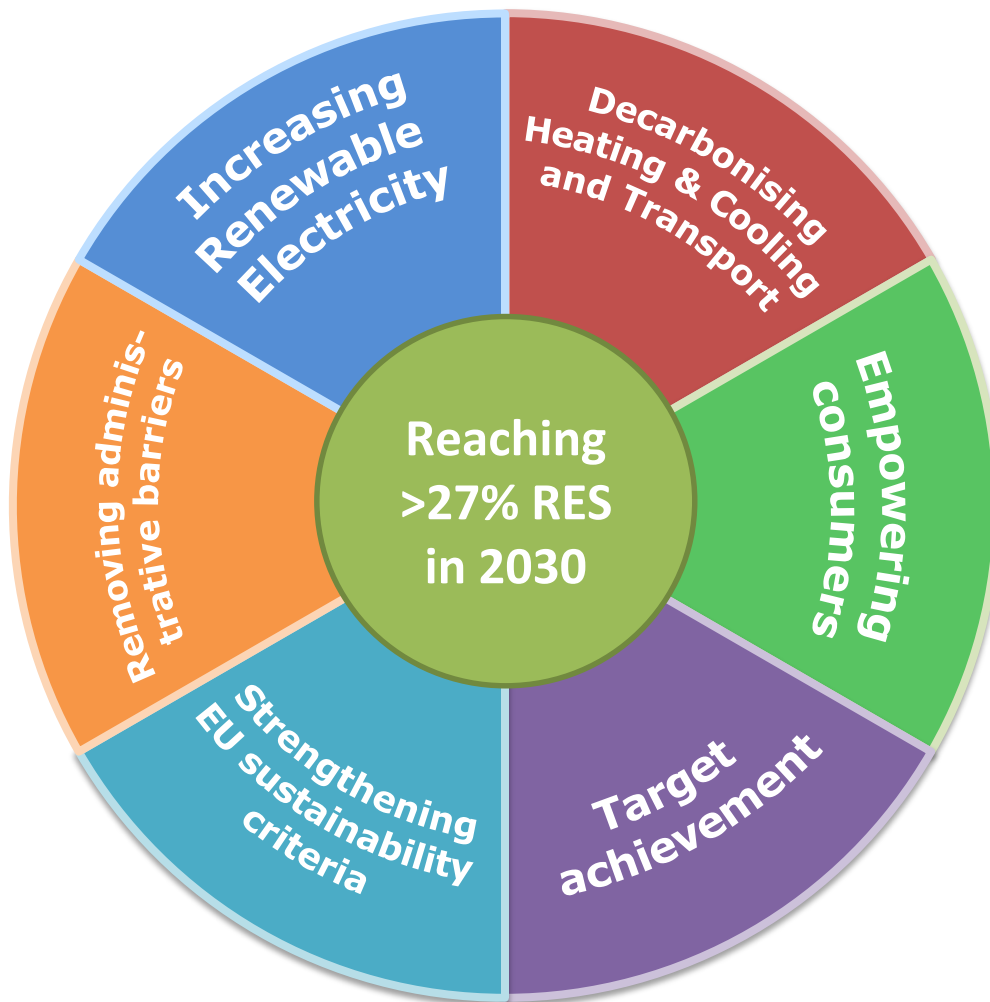
e.g. Financial instruments tackling cost of capital, no retroactive changes, open up support schemes...

	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)	€ 404 bn	€ 240 bn
Share of top 3 MS in total investments	67%	47%

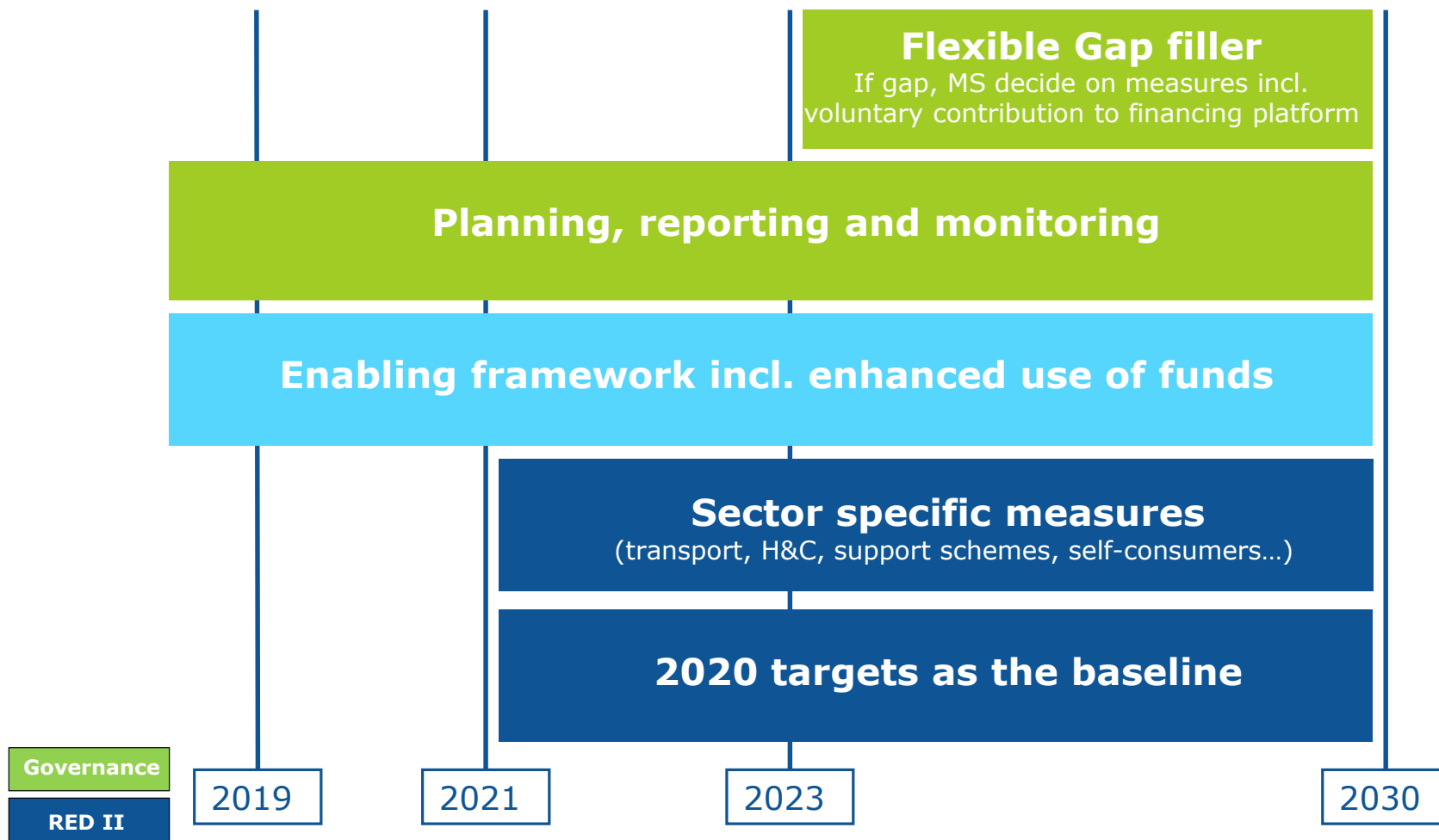
ENSURING A HOLISTIC APPROACH ACROSS THE PACKAGE



DELIVERING A SET OF WELL-BALANCED MEASURES ACROSS SECTORS

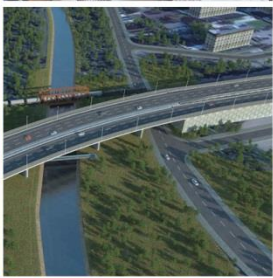
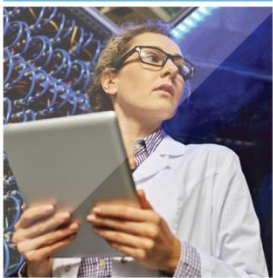
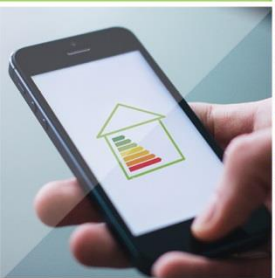


HOW TO MAKE IT HAPPEN: ACHIEVING AT LEAST 27 % RES EU-WIDE





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Energy Efficiency Directive



Energy Efficiency is the most cost-effective way of achieving Energy Union objectives...



Security of supply



Global leadership in renewables



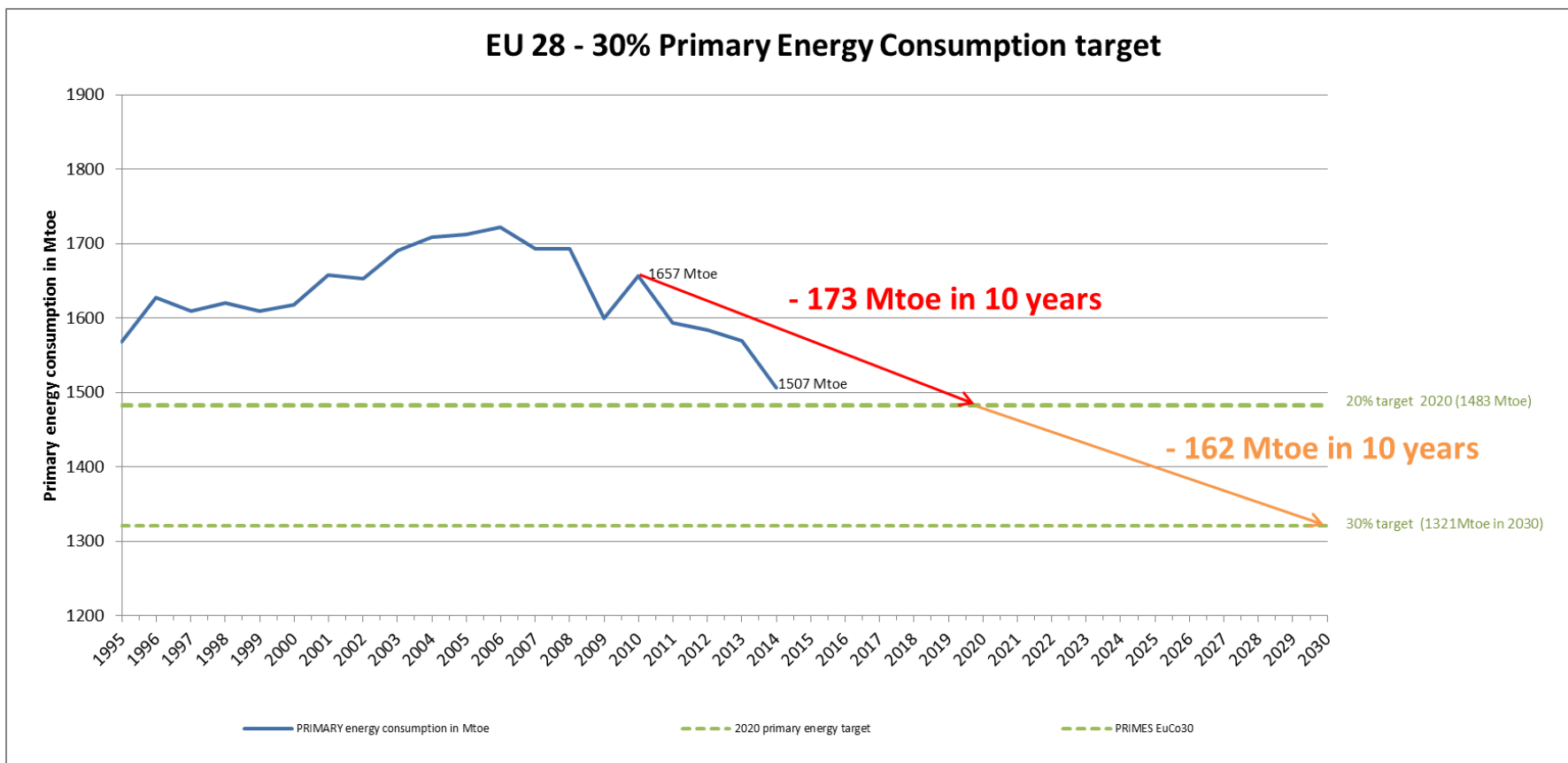
Decarbonization (Paris Agreement)



**SUSTAINABLE
GROWTH**

Promoting growth, jobs and investments

ENERGY EFFICIENCY DIRECTIVE the target



WHAT ARE THE POSITIVE IMPACTS OF A 30% TARGET COMPARED TO A 27% TARGET?



SAVINGS

Reduced energy related costs e.g. for households and energy intensive industries

Less thermal generation capacities needed

Reduction in pollution control costs & health damage costs by €4.5 – 8.3 billion



SAVINGS

Lower electricity price for households and energy intensive industries

2030 (b.a.u.)	27%	30%
158€ MWh	161€ MWh	157€ MWh

Security of supply: avoided cumulative fossil imports = €70 billion

Decarbonisation is cheaper in the long run (2021-2050): €9 billion/year less



SUSTAINABLE GROWTH

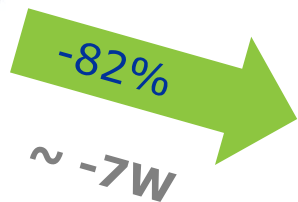
Up to 400,000 more jobs in 2030

Up to 0.4% increase of GDP in 2030 (~ 70 bn €)

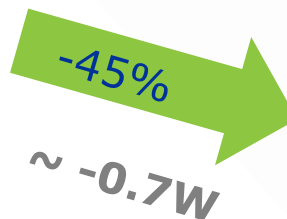
Products Policies Ecodesign and Energy Labelling - Results Achieved



12 lm/W
~ 8.3W



65 lm/W
~ 1.5W



120 lm/W
~ 0.83W

POLICY CONCLUSIONS FOR 2030 – ENERGY EFFICIENCY

Building renovation has to do more

- **Review of EPBD**
- **Review of Art. 7 EED**

Financing has a more important role to play

- **Smart Finance for Smart Buildings**

Digital/ICT has a big potential to contribute

- **Development of a 'Smartness indicator for buildings'**
- **Review of Art. 9-11 EED**

WHAT PIECES OF LEGISLATION?

ACHIEVING THE BINDING 30% ENERGY EFFICIENCY TARGET BY 2030



Energy Efficiency Directive

- Binding **30% energy efficiency target** for 2030;
- Extension of the energy savings obligation will boost **renovation of buildings** & address energy poverty
- **Empower consumers** by clearer and more frequent information on thermal energy consumption



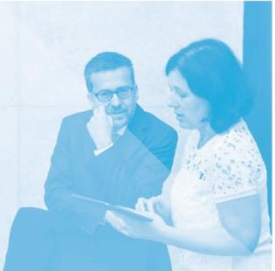
Energy Performance of Buildings

- Long term renovation strategies: Clear vision for a **decarbonised building stock** by 2050;
- **Smart** & Efficient buildings through use of Information and Communication Technologies and Smart Technologies;
- **Electro mobility**: recharging points in commercial and precabeling in residential buildings



Ecodesign and Energy Labelling

- Will deliver almost half of the 2020 target;
- New product groups and the **new label** will deliver new savings;
- But less than what is already achieved;
- Energy label for heaters under review, but rescaling for 2026 at the earliest



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Thank you for your attention!

