



***The view from the EU: the Integrated  
National Energy and Climate Plans***

***“United in delivering the Energy Union and  
Climate Action - Setting the foundations for a  
successful clean energy transition”***

***Energy Transition in SE Europe: Policy and Investment Challenges  
European Commission, Bucharest, 16 October 2019***



# 2030 TARGETS AND GOVERNANCE

## GOVERNANCE REGULATION\* - A ROBUST GOVERNANCE TO MEET 4 OBJECTIVES



Meet Energy Union objectives  
(notably the 2030 targets)



Ensure Better Regulation and  
reduce administrative burden



Allow for investor certainty and  
predictability



Synchronise planning and  
reporting cycles with Paris  
Agreement

### 2030 FRAMEWORK FOR CLIMATE AND ENERGY AGREED TARGETS

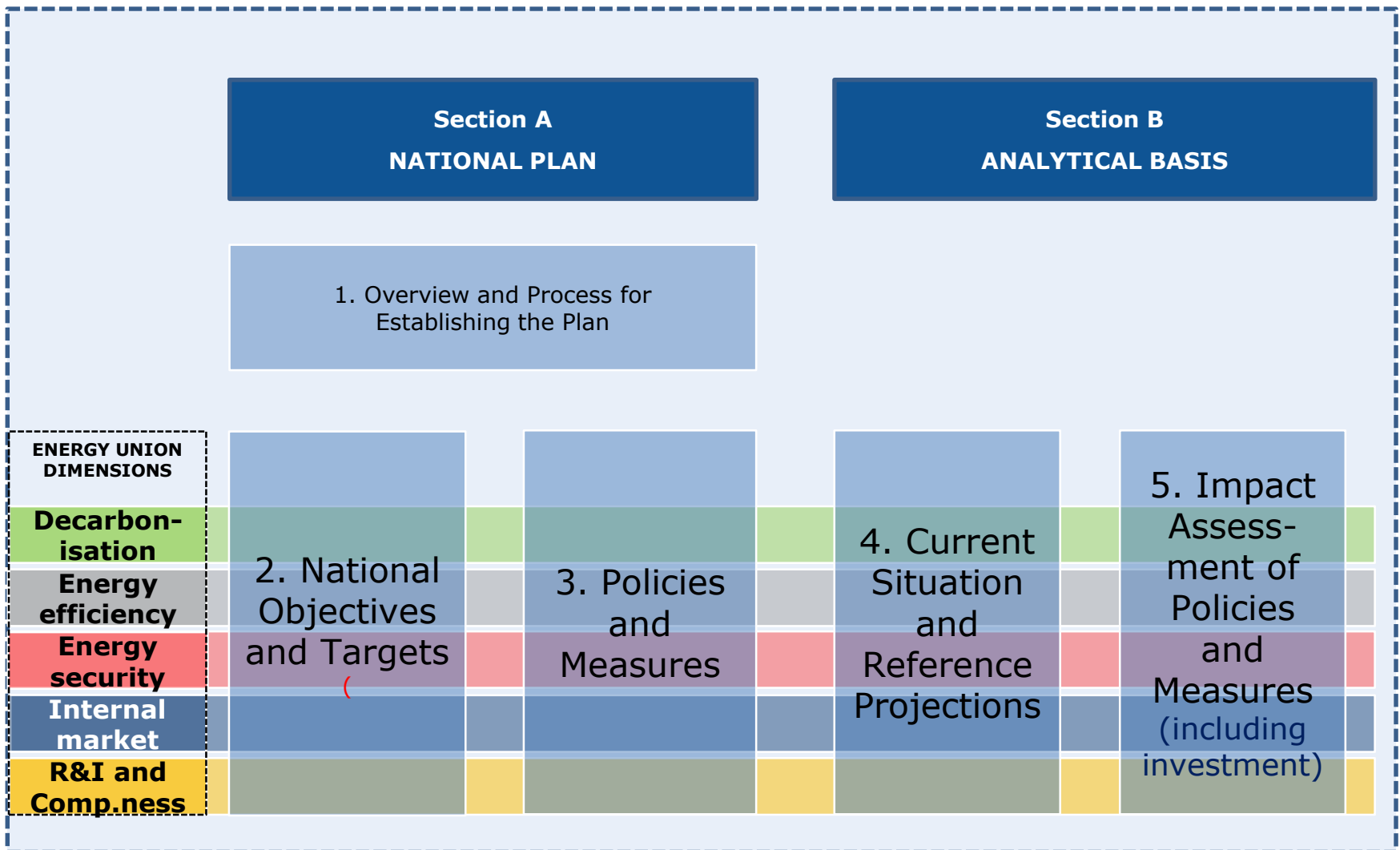
	GREENHOUSE GAS EMISSIONS	RENEWABLE ENERGY	ENERGY EFFICIENCY	INTER- CONNECTION	CLIMATE IN EU-FUNDED PROGRAMMES	CO2 FROM:
2020	-20%	20%	20%	10%	2014-2020 20%	
2030	≤ -40%	≥ 32%	≥ 32.5%	15%	2021-2027 25%	CARS -37.5% Vans -31% Lorries -30%

Upwards revision clause by 2023



\*Regulation (EU) 2018/1999 on the Governance of the Energy Union and Climate Action

# INTEGRATED NATIONAL ENERGY AND CLIMATE PLANS



# DRAFT NATIONAL ENERGY AND CLIMATE PLANS



28 submitted draft NECPs



An overview table with link to the national webpages and notified draft NECPs published on the Energy Union website



Commission has provided courtesy translation in English for almost all draft NECPs

<https://ec.europa.eu/energy/en/topics/energy-strategy-and-energy-union/governance-energy-union/national-energy-climate-plans>

# COMMISSION ASSESSMENT OF DRAFT NECPS



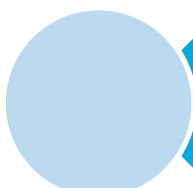
Chapeau Communication (COM(2019) 285)



28 sets of Country-specific recommendations



28 Staff Working Documents assessing the submitted draft NECPs and substantiating the recommendations



Accompanying Staff Working Document (2019) 212 includes the methodology for the assessment of greenhouse gases reductions and renewables and energy efficiency ambitions.

# COMMISSION RECOMMENDATIONS

**EACH MEMBER STATE RECEIVED BETWEEN 8 AND 11 COUNTRY-SPECIFIC RECOMMENDATIONS**

**Level of ambition and policies in view of the 2030 Renewables and Energy Efficiency targets**

**Planning and policies to achieve the 2030 greenhouse gas target for sectors not covered by the EU emissions trading system**

**Energy security; Internal energy market; R&I and competitiveness**

**Regional cooperation**

**Investments; Phase-out of energy subsidies, in particular for fossil fuels**

**Interactions with air quality/ air pollutant emissions**

**Just transition and energy poverty**

## ASSESSMENT: EU-WIDE 2030 TARGETS

**Greenhouse gas emissions:** based on planned policies and stated ambition levels in line with -40% target below 1990. In non-ETS sectors, corresponding target -30% below 2005, projection of aggregated draft plans: -28%

**Renewables:** gap at EU level for 32% target achievement which could be as big as 1.6 percentage points

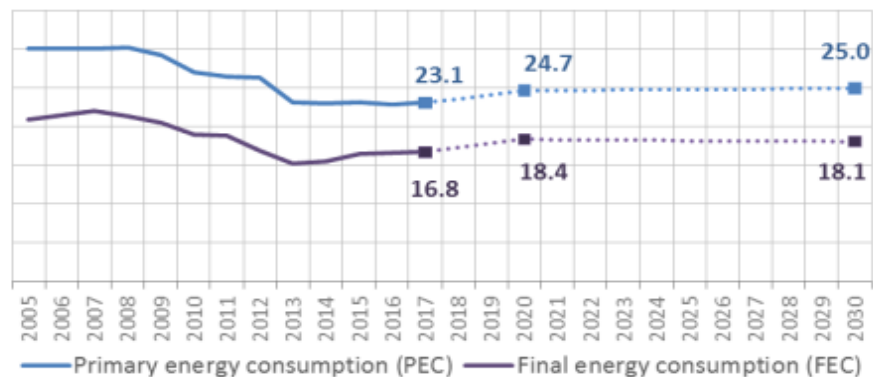
**Energy efficiency** the gap to 32.5% could be as big as 6.2 percentage points (PEC) or 6 percentage points (FEC)

Effective implementation of **all 2030 targets** and legislation could lead to -45% greenhouse gas emissions

## GREECE - National targets and contributions foreseen in the draft National Energy and Climate Plan

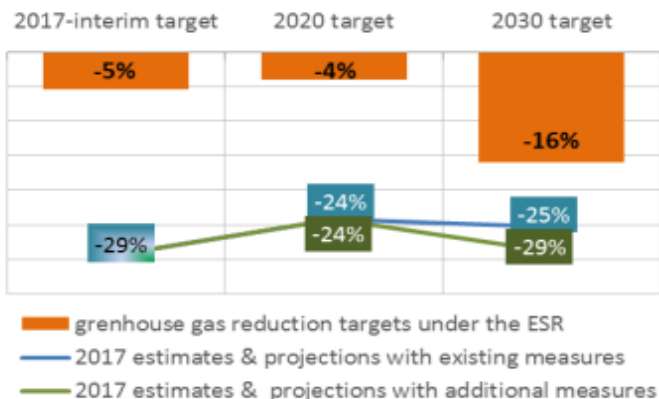


Energy efficiency: Primary and final energy consumption [Mtoe]



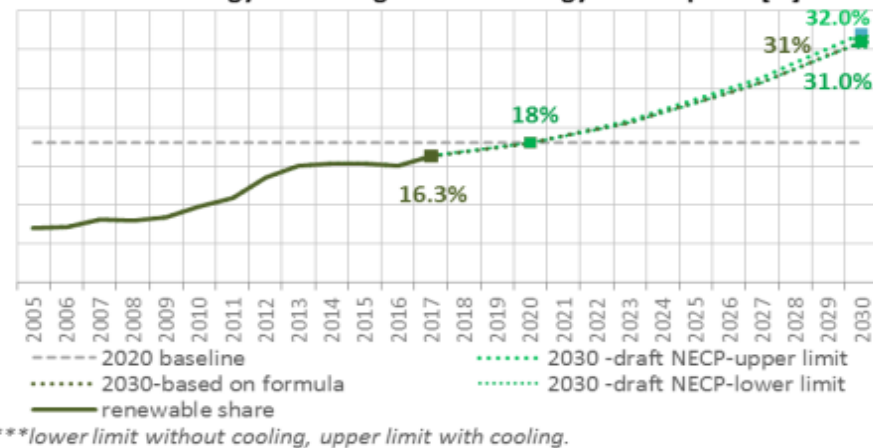
Mtoe=million tones of oil equivalent.

Greenhouse gas emissions under the Effort Sharing Regulation (ESR)\* (compared to 2005) [%]



\*emissions from non-ETS sectors, notably from transport, agriculture, buildings and waste  
2017 estimates from COM (2018)716 final

Renewable energy: share in gross final energy consumption [%]\*\*\*

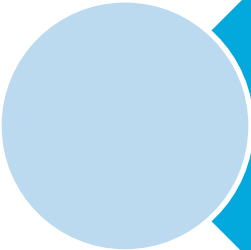


\*\*\*lower limit without cooling, upper limit with cooling.

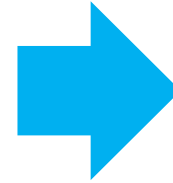
Sources: Greece's draft National Energy & Climate Plan, Eurostat (PEC2020-2030, FEC2020-2030 indicators and renewable SHARES), COM (2018) 716 final (2017 GHG estimates)



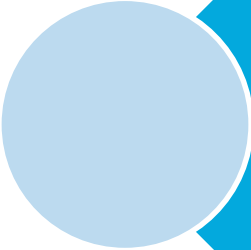
# ASSESSMENT: DECARBONISATION



Need for better non-ETS GHG planning over the whole period 2021-30, including use of flexibilities, for **Bulgaria, Romania, Greece** to consider if transfers to other Member States could play a role in supporting investments)



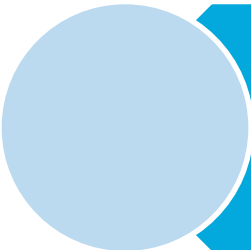
16+ 8 MS received recommendation related to GHG



Member States to reconsider renewables ambition to ensure the gap is closed. Need to comply with Transport and Heating&Cooling sectorial targets



- All 28 MS received recommendations related to renewable energy: **Romania to significantly raise the ambition level to at least 34%**



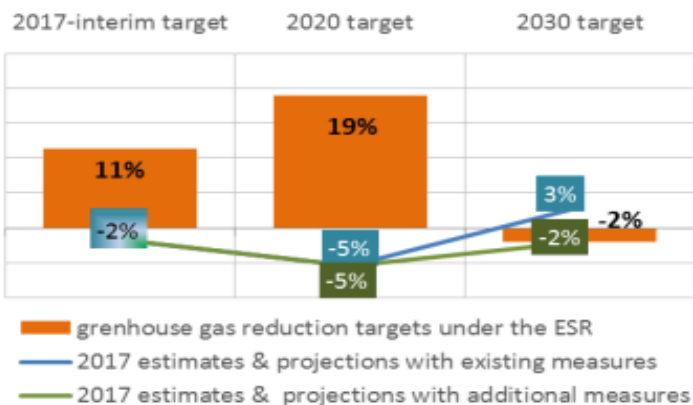
Need for robust information on policies and measures (to demonstrate that they are adequate to deliver the proposed contributions, notably the 2022 first reference point)



## ROMANIA - National targets and contributions foreseen in the draft National Energy and Climate Plan



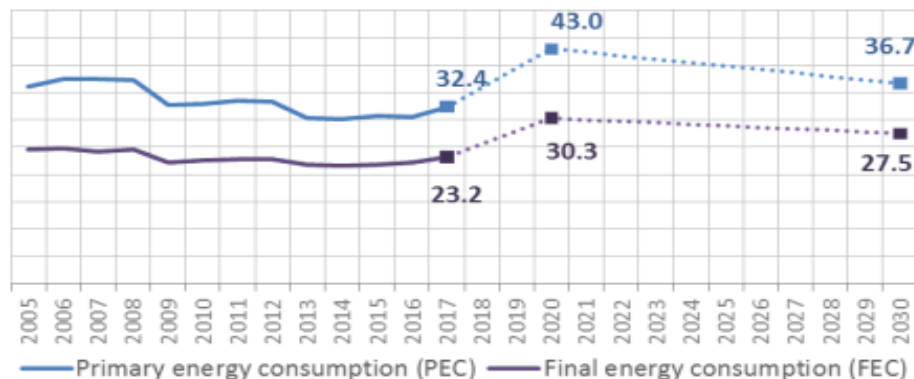
### Greenhouse gas emissions under the Effort Sharing Regulation (ESR)\* (compared to 2005) [%]



\*emissions from non-ETS sectors, notably from transport, agriculture, buildings and waste

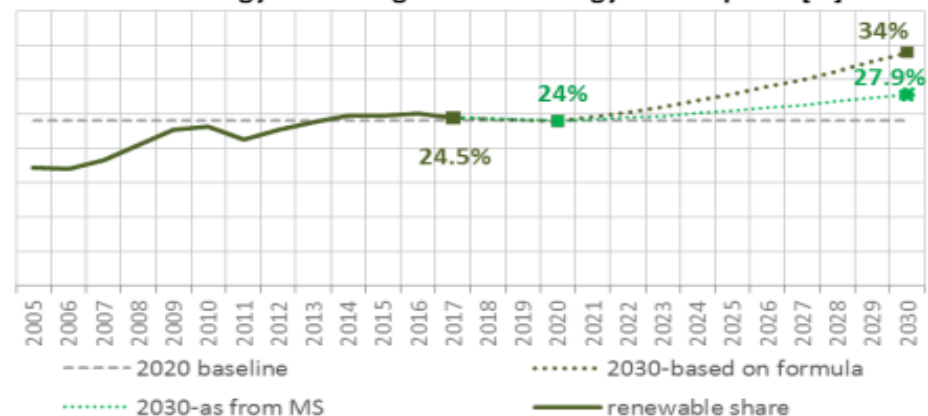
2017 estimates from COM (2018) 716 final

### Energy efficiency: Primary and final energy consumption [Mtoe]



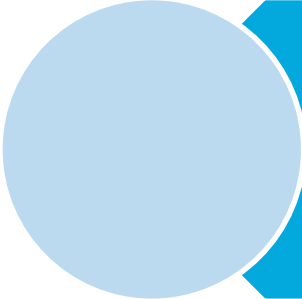
Mtoe=million tones of oil equivalent.

### Renewable energy: share in gross final energy consumption [%]

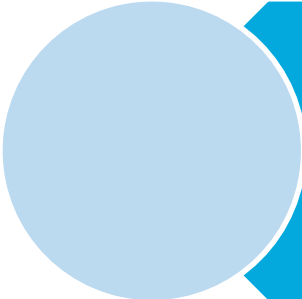


Sources: Romania's draft National Energy & Climate Plan, Eurostat (PEC2020-2030, FEC2020-2030 indicators and renewable SHARES), COM (2018) 716 final (2017 GHG estimates)

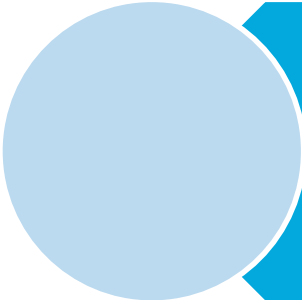
## ASSESSMENT: ENERGY EFFICIENCY




National contributions to be clarified and to better reflect the impact of policies, national circumstances and savings potentials. **Contributions of Romania and Greece considered very low.**



Need for policies and measures with an adequate scale and timeline, to demonstrate that they are sufficient to deliver the proposed contributions



Need for integrating Annex III (energy savings to be achieved under Article 7 of the Energy Efficiency Directive) and the long-term building renovation strategy




- All 28 MS received recommendations related to energy efficiency;  
**Romania and Greece to substantially increase ambition**

# ASSESSMENT: ENERGY SECURITY

- Energy security is generally not adequately reflected in the NECPs.
- MS to set **clearer national objectives and measures** related to **diversification, supply from third countries, import dependency, system resilience and flexibility.**
- Links with **emergency plans for oil, gas and electricity** should be explored

- **Romania** to specify the measures supporting the energy security objectives on diversification and reduction of energy dependency, in particular measures ensuring flexibility and a robust gas diversification strategy, and those related to the foreseen role of nuclear



- 23 MS incl. EL and RO received recommendations related to energy security aspects



# ASSESSMENT: JUST TRANSITION

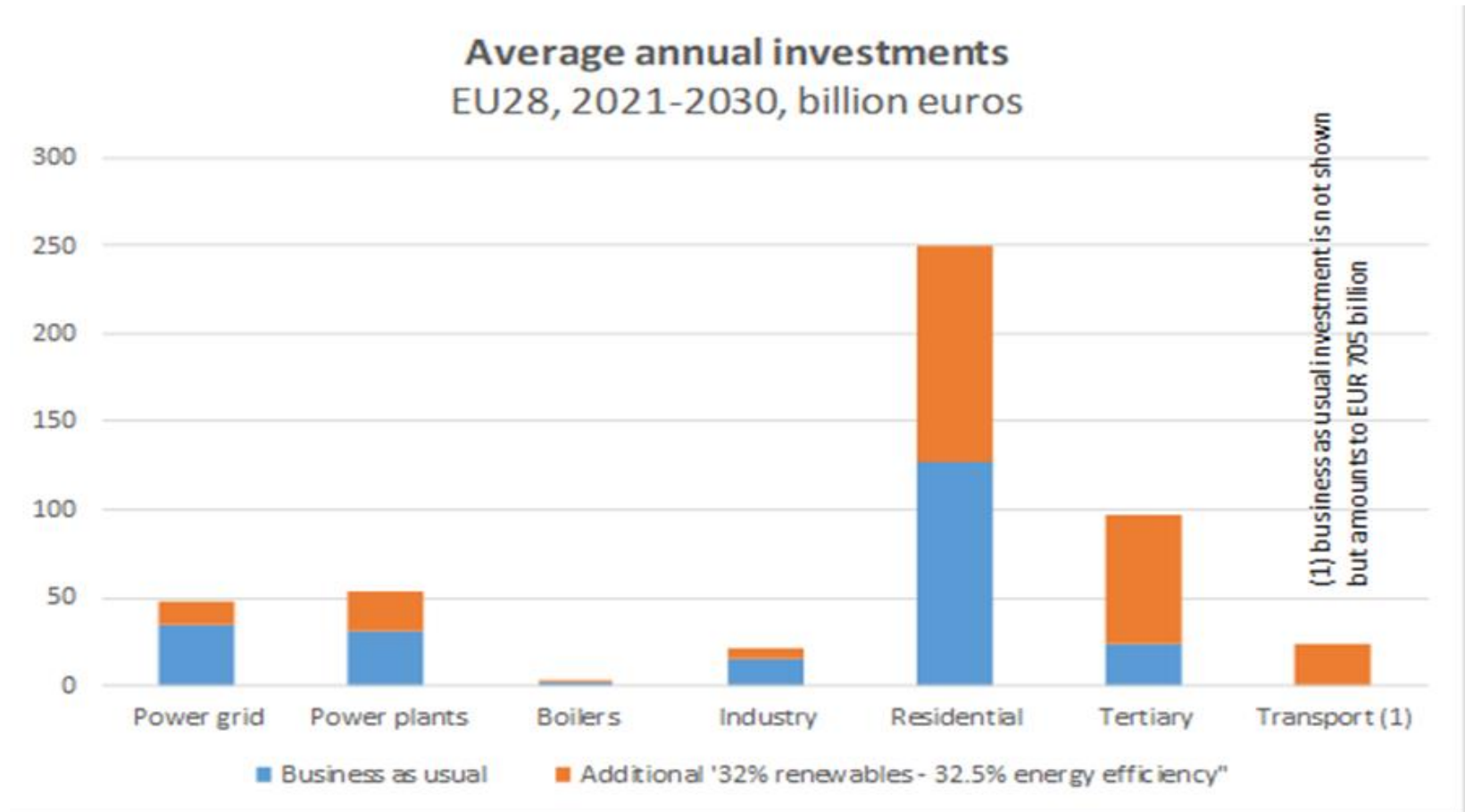
- NECPs need still to be reinforced on **just transition aspects** by including structured approach to social and employment impacts
- Social dimension needs to be fully integrated **from the outset**
- Assessing carefully social, territorial and employment **impacts** is essential
- **Assessment of number of energy poor households and objectives** to reduce this number if significant

- Romania** to elaborate on the measures to address the structural changes for the mono-industrial regions such as those depending on the coal industry.



- 28 MS received recommendations on just transition (23 on energy poverty aspects)

# EU-WIDE INVESTMENT NEEDS



**Need for public and private funding to deliver yearly additional investment of around EUR 260 billion. A range of EU funds can help.**

Figures derived from the EUCO32-32.5 scenario (in line with key technology assumptions of the EUCO family scenarios)



# SUPPORT TO CLEAN ENERGY – THE FIGURES

Energy in the Multi-annual Financial Framework (current prices, EUR million)	2021-2027 (EC proposal)	2014-2020 (EU27+EDF)
<b>Main energy-relevant programmes</b>		
Connecting Europe Facility - Energy	8.650	4.163
ITER	6.070	2.910
Nuclear Decommissioning (Lithuania)	552	451
Nuclear safety and decommissioning (incl Bulgaria and Slovakia)	626	883
LIFE Programme	5.450	3170
of which Clean Energy sub-programme	1.000	-
InvestEU	14.725	
Horizon Europe	97.600	66.034
ERDF	226.308	193.398
Cohesion Fund	46.692	74.589
<b>Other programmes that might benefit energy</b>		
Euratom Research and Training Programme	2.400	2.085
Neighbourhood, Development and International Cooperation Instrument	89.500	70.428
Instrument for pre-accession Assistance	14.500	12.799
<b>non-MFF programmes*</b>		
Innovation Fund	10.000	
Modernisation Fund	6.000	
<b>TOTAL MFF (of which 25% Climate mainstreaming)</b>	<b>1.279.408</b>	<b>1.063.101</b>

+ Auctioning revenues EU Emissions trading system  
(in the year 2018 EUR 14 billion)



European  
Commission

# LINK WITH LONG TERM STRATEGIES

## LINKS WITH EU AND NATIONAL LONG TERM STRATEGY (ART 15)



By 1 January 2020 each Member State shall prepare and notify its Long-Term Strategy (LTS) with a perspective of at least 30 years

Member States' long-term strategies should contain the elements set out in Annex IV

The NECPs shall be consistent with the national and EU long-term strategies referred to in Article 15

Commission to provide support and guidance and to assess whether the national LTS are adequate for the collective achievement of the objectives of the Energy Union



# ASSESSMENT: REGIONAL COOPERATION

- **Romania and Greece** to intensify regional cooperation
- with neighbouring Member States
- and within established regional cooperation frameworks such as the Central and South-Eastern Europe Energy Connectivity (CESEC) High Level Group

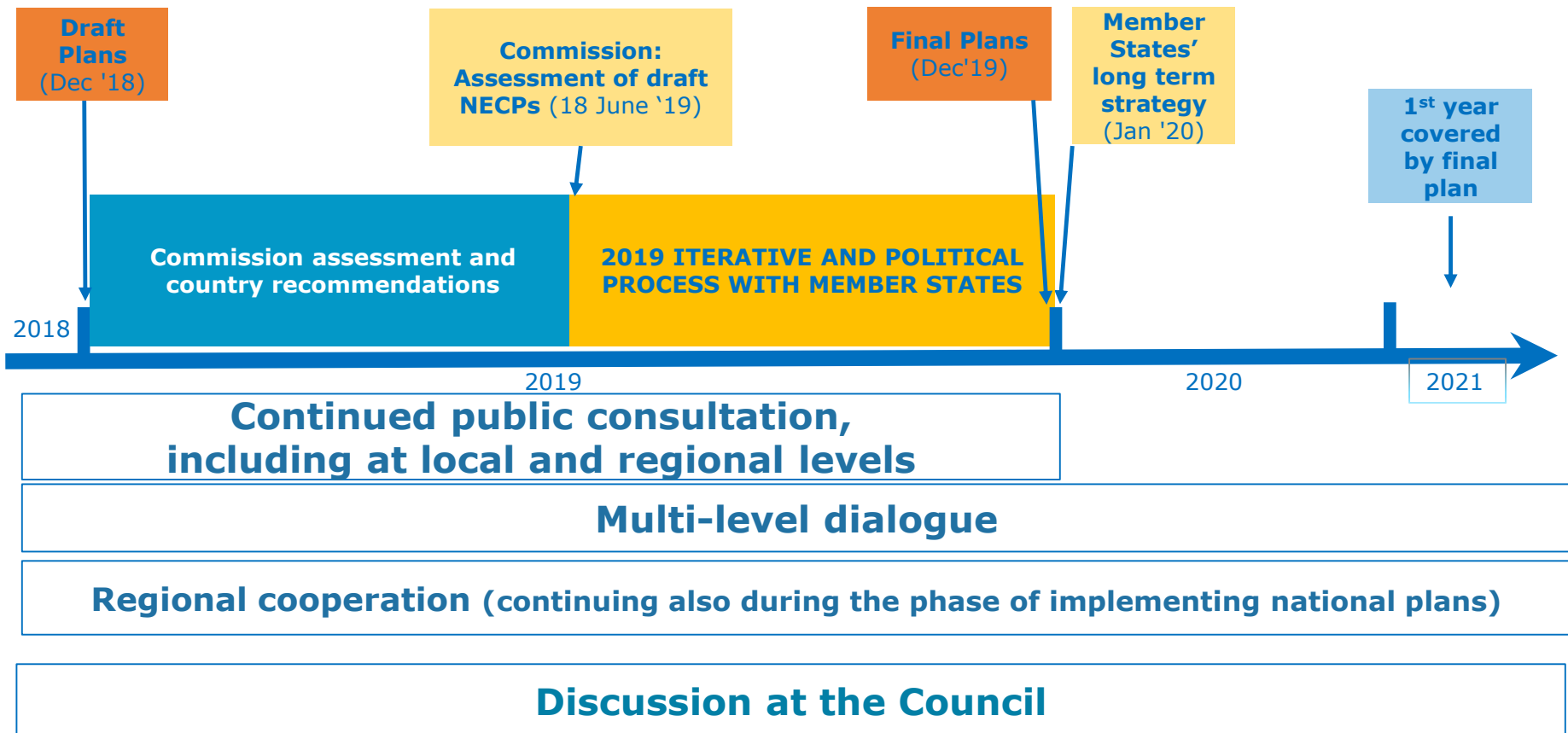
- There is significant potential to further cooperate, including the need to accommodate higher shares of renewables and clean transport, which could impact electricity interconnections and trading in the region



- 28 MS received recommendations on regional cooperation

# NEXT STEPS

## ITERATIVE PROCESS





# ENERGY UNION

EnergyUnion #EnergyUnion

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## THANK YOU!