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Delegations will find attached document COM(2023) 796 final - ANNEX.

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EUROPEAN
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ANNEX

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to the

**COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN
PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL
COMMITTEE AND THE COMMITTEE OF THE REGIONS**

EU wide assessment of the draft updated National Energy and Climate Plans

**An important step towards the more ambitious 2030 energy and climate objectives
under the European Green Deal and RePowerEU**

ANNEX

1 METHODOLOGY FOR THE AGGREGATION OF GREENHOUSE GAS (GHG) EMISSIONS ACROSS MEMBER STATES

The EU-wide aggregation of data on GHG emissions is based on the 24 NECPs submitted at the time of publication of this assessment¹, complemented where needed with information extracted from the March 2023 first progress reports (NECPR).

The aggregation of data is based on the following rules:

- When available, projections with additional measures (WAM) provided in the NECPs were used.
- If the WAM projections are missing, the projections with existing measures (WEM) provided in the NECP were used instead.
- If neither the WAM nor the WEM projections are available in the NECPs, and for the Member States that did not submit the NECP, the March 2023 WAM projections were used. If March 2023 WAM projections are not available, then March 2023 WEM projections are used.

¹ Belgium, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden. Poland and Bulgaria submitted partial information via the EU Pilot structured dialogue. However, updated trajectories for GHG emissions were not included.

Table 1: overview of the GHG emission data used to assess progress to the climate targets

	Total GHG emissions (including LULUCF)		ESR emissions	
	2030	2050	2005*	2030
	Mt CO ₂ e			
EU-27	2,284	1,589	2,517.1	1656.9
Austria	61.8	52.3	57.0	41.7
Belgium	82.0	61.6	81.6	46.8
Bulgaria	41.9	21.3	22.3	22.8
Croatia	19.2	11.4	18.1	15.0
Cyprus	6.0**	4.0**	4.3	3.3**
Czechia	108.7**	46.1	65.0	52.8
Denmark	28.9	22.6	40.4	24.4
Estonia	10.6**	4.6**	6.2	5.5
Finland	4.7	-12.5	34.4	18.5
France	252.0**	256.2	401.1	215.0**
Germany	449.0**	194.0**	484.7	317.0**
Greece	44.5**	2.5**	63.0	34.0**
Hungary	51.7	40.4	47.8	36.4**
Ireland	62.5**	55.8**	47.7	42.8**
Italy	277.0**	268.7	343.1	219.5**
Latvia	12.2	11.1	8.6	7.9
Lithuania	8.7	7.4	13.1	10.3
Luxembourg	5.1	1.0	10.1	4.3
Malta	2.6	2.9	1.0	1.5
Netherlands	124.0	83.0**	128.1	78.6
Poland	340.7	276.0	192.5	178.7
Portugal	29.4**	2.8	48.6	28.2
Romania	49.6**	3.1**	78.2	81.7
Slovakia	28.1	19.8	23.1	20.5
Slovenia	6.4**	0.0	11.8	8.4**
Spain	156.1	141.0	242.0	133.8
Sweden	-12.1	-24.4	43.2	16.5
*2005 legal base year figures as set in Annex I of Commission Implementing Decision (EU) 2020/2126 ²				
** Data point in the draft updated NECP different than in NECPR				

² Commission Implementing Regulation (EU) 2020/2126 of 16 December 2020 on setting out the annual emission allocations of the Member States for the period 2021 to 2030 pursuant to Regulation (EU) 2018/842 if the European Parliament and of the Council.

For LULUCF, the projections (WAM or, when not available WEM) were used to assess the Member State's compliance with the 2021-25 "no debit" rule and the trajectory towards the 2030 national target (as per Annex IIa column C of the revised Regulation 2018/841). In addition, the submitted projections were assessed considering the revised inventories. This had, in some cases, significant impact on the overall assessment. The credibility of the proposed policies and measures in the relevant areas was also considered.

For the assessment of the Union 2030 reduction target of -55% of net domestic GHG emissions (including LULUCF) compared to 1990, in accordance with the European Climate Law, the contribution of net removals was limited to 225 million tonnes of CO₂ equivalent.

2 METHODOLOGY TO CALCULATE THE MEMBER STATES' AMBITION GAP AT UNION LEVEL IN THE AREA OF RENEWABLE ENERGY

The following criteria were used in the assessment of the ambition gap between the submitted contributions towards the Union-wide share of renewable energy of at least 42.5% and the share of renewable energy that results from applying the formula set out in Annex II of Regulation (EU) 2018/1999 on the Governance of the Energy Union and Climate Action³:

With x referring to the Member State's renewables shares contribution in the draft updated NECP

$x \leq -4\%$ = significantly below

$-4\% < x \leq -2\%$ = below

$-2\% < x < 0\%$ = slightly below

$x = 0\%$ = in line

$0\% < x < 2\%$ = slightly above

$2\% \leq x < 5\%$ = above

$x \geq 5\%$ = significantly above

The Member States' renewable energy share in gross final energy consumption (GFEC) and their associated GFEC levels are necessary to establish whether the collective contribution of Member States adds up to at least 42.5% Union wide binding renewable energy share in GFEC.

For those Member States that have not submitted the GFEC values, or that have not submitted a draft updated NECP, the 2019 contributions provided in their respective final NECPs of 2020 or, if applicable, the official data submitted to the Commission via structured dialogue (EU PILOT), were used to fill in the remaining data gaps.

Nineteen Member States (Belgium, Cyprus, Czechia, Germany, Denmark, Estonia, Greece, Spain, Croatia, Hungary, Italy, Ireland, Latvia, Lithuania, Luxembourg, Romania, Portugal, Slovenia, Slovakia) submitted a draft updated NECP including an explicit or implicit contribution to the 42.5% EU binding renewable energy target for 2030.

³ Regulation (EU) 2018/1999 of the European Parliament and of the Council of 11 December 2018 on the Governance of the Energy Union and Climate Action, amending Regulations (EC) No 663/2009 and (EC) No 715/2009 of the European Parliament and of the Council, Directives 94/22/EC, 98/70/EC, 2009/31/EC, 2009/73/EC, 2010/31/EU, 2012/27/EU and 2013/30/EU of the European Parliament and of the Council, Council Directives 2009/119/EC and (EU) 2015/652 and repealing Regulation (EU) No 525/2013 of the European Parliament and of the Council. OJ L 328, 21.12.2018, p. 1–77.

Five Member States (Finland, France, Malta, Netherlands, Sweden) submitted a draft updated NECP but did not update their contribution to the 42.5% EU binding renewable energy target for 2030. Four Member States out of those five (Finland, Malta, Netherlands, Sweden) indicated that they will update their contribution in their final NECP.

Two Member States (Bulgaria, Poland) did not submit the updated draft NECP but submitted their contribution via the EU Pilot structured dialogue with the Commission.

One Member State (Austria) did neither submit a draft updated NECP nor a contribution via the EU Pilot structured dialogue exchange.

Table 2: Overview of national contributions and ambition gaps towards the Union target of at least 42.5% of renewable energy consumption

	RES-shares				
	2020 national binding target	2021 national SHARES value	2030 national contribution (as per draft updated NECP)	2030 shares in line with the formula	Ambition gap
AT	34%	36.4%	46%-50%	57%	Significantly below
BE	13%	13.0%	21.7%	33%	Significantly below
BG	16%	17.0%	29.9%	33%	Below
CY	13%	18.4%	26.5%	33%	Significantly below
CZ	13%	17.7%	30%	33%	Below
DE	18%	19.2%	40%	41%	Slightly below
DK	30%	34.7%	70.9%	60%	Significantly above
EE	25%	38.0%	65%	50%	Significantly above
EL	18%	21.9%	44%	39%	Significantly above
ES	20%	20.7%	47.9%	43%	Above
FI	38%	43.1%	51%	62%	Significantly below
FR	23%	19.3%	33%	44%	Significantly below
HR	20%	31.3%	42.5%	44%	Slightly below
HU	13%	14.1%	29%	34%	Significantly below
IE	16%	12.5%	31.4%-34.1%	43%	Significantly below
IT	17%	19.0%	40.5%	39%	Slightly above
LT	23%	28.2%	55%	49%	Significantly above
LU	11%	11.7%	37%	37%	In line
LV	40%	42.1%	57%	61%	Significantly below
MT	10%	12.2%	11.5%	28%	Significantly below
NL	14%	13.0%	27%	39%	Significantly below
PL	15%	15.6%	23%-31%	32%	Significantly below
PT	31%	34.0%	49%	51%	Slightly below
RO	24%	23.6%	34%	41%	Significantly below
SE	49%	62.6%	65%	76%	Significantly below
SI	25%	25.0%	30%-35%	46%	Significantly below
SK	14%	17.4%	23%	35%	Significantly below

3 METHODOLOGY TO CALCULATE THE MEMBER STATES' AMBITION GAP AT UNION LEVEL IN THE AREA OF ENERGY EFFICIENCY

The calculation of the sum of the national contributions of Member States reported in the draft updated NECPs for both final and primary energy consumption (FEC) is necessary to assess whether the collective contributions of Member States adds up to 763 Mtoe for final energy consumption and 992.5 Mtoe for primary energy consumption.

For those Member States that have not submitted any national contribution for either their final or primary energy consumption, or both, or that have not submitted a draft updated NECP at all, the 2019 contributions provided in their respective final NECPs of 2020 or, if applicable, the official data submitted to the Commission via structured dialogue (EU PILOT), were used to fill in the remaining data gaps.

Twenty-three Member States (Belgium, Cyprus, Czechia, Denmark, Germany, Estonia, Finland, France, Greece, Spain, Croatia, Hungary, Italy, Ireland, Latvia, Lithuania, Luxembourg, Netherlands, Romania, Portugal, Slovenia, Slovakia, Sweden) submitted a draft updated NECP including an explicit or implicit contribution to the 11.7% EU binding final energy consumption target for 2030.

One Member State (Malta) submitted a draft updated NECP but did not update their contribution to the 11.7% EU binding final energy consumption target for 2030.

One Member State (Bulgaria) did not submit the updated draft NECP but submitted their contribution via the EU Pilot structured dialogue with the Commission.

Two Member States (Austria, Poland) did neither submit a draft updated NECP nor a contribution via the EU Pilot structured dialogue exchange.

Table 3: Overview of national contributions towards the 2030 EU energy efficiency target of - 11.7%

	Final Energy Consumption			Primary Energy Consumption		
	Contributions reported by Member States or assumed	Results of formula Annex I EED recast	Deviation contribution for 2030 to formula result	Contributions reported by Member States or assumed	Results of formula Annex I EED recast	Deviation contribution for 2030 to formula result
AT	25.6	21.4	20.10%	30.8	24.9	23.60%
BE	29.9	28.8	4.00%	36.5	33.8	8.15%
BG	9.9	8.8	11.30%	15.3	13.7	11.30%
CY	1.9	1.8	4.04%	2.3	2	11.86%
CZ	20.2	20.2	-0.05%	28.8	28.8	-0.02%
DE	160.5	156	2.94%	193.6	194.2	-0.31%
DK	14.2	13.7	3.41%	16.7	15.5	7.58%
EE	2.6	2.6	1.35%	5.1	3.9	30.63%
EL	15.4	14.6	5.20%	18.2	17.1	6.27%
ES	70.2	65.4	7.37%	96.7	81.8	18.24%
FI	23.2	20.6	12.62%	31.1	29.8	4.43%
FR	104	104	-0.05%	157.3	157.3	-0.05%
HR	6.6	5.9	11.65%	8.1	6.8	19.18%
HU	17.9	16.2	10.62%	30.7	23.3	31.55%
IE	12.9	9.9	30.97%	15.2	11.2	35.61%
IT	94.4	92.1	2.48%	115	112.2	2.53%
LT	4.2	4.2	-1.14%	5.2	5.2	0.83%
LU	3	2.7	12.32%	3.5	2.8	24.06%
LV	3.4	3.3	4.16%	4.1	3.7	10.04%
MT	0.8	0.7	14.47%	1.1	0.8	26.73%
NL	43.9	38.4	14.27%	46.6	46.2	0.84%
PL	67	57.7	16.06%	91.3	77.2	18.33%
PT	14.9	13.4	11.11%	20.8	15.2	37.17%
RO	23.2	22.8	1.95%	31.4	30.2	4.11%
SE	29.8	25.1	18.84%	40.4	35.4	14.08%
SI	4.4	4.3	3.25%	6	5.8	4.13%
SK	10.3	8.5	21.38%	15.7	13.6	15.26%
Total	814.3	763		1067.5	992.5	