# Annex Hungary - Climate Targets

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# 1 Hungary

Hungary's NECP and its added annex's has a huge amount of data. Their WEM and WAM scenarios are created and modeled with the TIMES model [?, 46]. Since it is a model and I have not found anything concrete on what constitutes as a targe, their WAM scenario has become the target scenario. With that said there is a wealth of usable data in the Hungarian NECP. I have found a lot of information in annex's. So, if there is a need for more information on demand or other concerte numbers until 2050 I would suggest looking there (specifically annex 2).

This NECP is also a machine translation, but since most of my data is from the annex's I believe that the data is accurately represented in the excel file.

## 1.1 Supply

### 1.1.1 Percent targets

The percent targets are a part of the EU-targets. They have included to complete trajectory from 2021 to 2030 but not anything after. [1, 51]

Table 1: Indicative timeline: Estimated national trajectory for the share of renewable energy in gross final energy consumption by sector from 2021 to 2030 (%) (Data: MEKH, Eurostat)

Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
RES	14%	15%	17%	20%	22%	23%	25%	26%	28%	30%
RES-E	14%	15%	17%	19%	20%	23%	25%	27%	29%	32%
RES-H&C	18%	20%	22%	23%	24%	25%	27%	29%	30%	32%
RES-T	10%	10%	13%	16%	17%	19%	20%	22%	24%	25%

#### 1.1.2 Capacity target

source capacity [1, 236] source: [1, 53]

Table 2: Indicative timeline: Electricity generation capacities installed for the use of renewable energy sources, by technology (MW)

MW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
PV	1968	4235	5456	6676	7897	8718	9538	10359	11179	1200
Wind	324	324	434	545	655	740	825	910	995	1,080
Total	3,878	5,130	6,495	7,860	9,225	10,089	10,953	11,817	12,681	13,546

#### 1.2 Demand

Here is one of the worse ones. I have tried to find good numbers for the demand and the only thing that exist are the general energy demand, but not anything concrete on the specific issues. Most of the data is found in the annex.

#### 1.2.1 EV targets

The only information on this subject is the transport sector breakdown, but nothing concrete on the numbers.

## 1.2.2 Heat pump targets

Here is the same thing. I can only find information on the percentage of renewable energy that are supposed to go into the transportation sector. There was nothing in the Annex.

# 1.2.3 Storage

Here is the same thing - they descrivbe the need to use storage and hydrogen within the system, but nothing concrete.

# References

 $[1]\,$  NECP. Hungary - Final updated NECP 2021-2030 (submitted in 2024) - European Commission.