

# Annex Croatia - Climate Targets

Summer 2025

## 1 Croatia

Croatia is one of the newer countries that has been added into the EU in 2013. They in the NECP they describe themselves as a country with less economic activity than the rest of the EU and more dependent on oil and gas for energy [2, 7]. Under the national target chapter they describe the numerous ways that they are going to reach the climate targets put forward by the EU through different projects and policies. The NECP was in english making me trust my own understanding of the data. Here the WAM scenario is used as the target.

This was one has more charts and direct copied information from the NECP - there is no particular reason for this only that it was one of the first annex's that I did.

### 1.1 Climate targets and Supply

They follow from the other countries having the percentage targets first - while having them further broken down into the WEM and WAM scenario. They have also added what they have achieved with most of the jumps being relatively minor in 2030 with the exception of transportation. The targets are seen here [2, 78-87].

Table 1: Indicative national targets for RES shares until 2030, WAM

RES percentage share	Achieved		Targets
	2021	2022	2030
RES-gross	31.7	29.4	42.5
RES-E	53.5	55.5	76.7
RES-H&C	38.0	37.2	47.1
RES-T	7.1	2.4	24.6

Table 2: Indicative trajectories of RES shares by 2030 in the scenario with existing measures (WEM)

RES percentage share	Achieved		Projection to 2030
	2021	2022	(WEM scenario)
RES-gross	31.7	29.4	35.0
RES-E	53.5	55.5	63.6
RES-H&C	38.0	37.2	40.0
RES-T	7.1	2.4	10.7

#### 1.1.1 Capacity target

The total energy production is the WAM scenario and it is stated it is a projections. However, a projection to reach the net-zero target of the EU and the Paris-agreement which is the reason that it is placed as a target in the file [2, 71]. For the WEM it is the same however it is found at [2, 266]

Table 3: Estimated powerplant capacities in the scenario with additional (WAM) measures (MW)

	Nuclear	Hydro	Gas	Fuel Oil	Coal	Biomass	Biogas	Geothermal	Wind	Solar	Total
2021	348	2,203	822	344	199	101	59	10	987	222	5,295
2030	348	2,631	879	0	199	135	59	68	2,268	2,382	8,969
2040	348	2,908	831	0	0	135	59	318	3,563	4,860	13,094
2050	348	3,200	461	0	0	135	59	405	4,353	5,770	14,732

source: [2, 294]

Table 4: Estimated power plant capacities in the scenario with existing measures (WEM) (MW)

	Nuclear	Hydro	Gas	Fuel Oil	Coal	Biomass	Biogas	Geothermal	Wind	Solar	Total
2021	348	2,203	822	344	199	101	59	10	987	223	5,296
2030	348	2,393	1,079	0	199	135	59	10	1,886	1,266	7,375
2040	348	2,780	1,819	0	0	135	59	38	2,496	2,345	10,020
2050	0	2,980	1,784	0	0	135	59	68	3,260	3,430	11,716

## 1.2 Demand

### 1.2.1 Electricity demand

Source: [2, annex-1]

Table 5: Energy Consumption

Year		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Primary energy consumption	ktoe	8,182	8,314	8,556	8,489	8,422	8,355	8,288	8,220	8,153	8,086
Final energy consumption	ktoe	6,888	6,905	7,127	6,980	6,833	6,685	6,538	6,391	6,243	6,096
by sector											
Industry	ktoe	1,191	1,129	1,174	1,156	1,136	1,120	1,102	1,084	1,066	1,048
Residential	ktoe	2,442	2,286	2,228	2,154	2,081	2,007	1,933	1,859	1,786	1,712
Tertiary	ktoe	848	809	781	774	768	761	755	748	741	735
Transport	ktoe	2,147	2,421	2,688	2,608	2,528	2,448	2,367	2,287	2,207	2,127
Other	ktoe	258	261	257	257	257	257	258	258	258	258

### 1.2.2 EV targets

Croatia has placed a target of having 24.6 % share of renewable energy in their transport market by 2030 [1]. However, this does not translate into concrete numbers on the amount of EVs that they want to have in circulation by 2030 or any other year.

### 1.2.3 Heat pump targets

n/a

### 1.2.4 Storage

Nothing concrete about the storage goals or projections only that investments are important [2, 101]. There are some numbers on hydrogen, but nothing complete.

## References

- [1] Enerdata. Croatian Incentives for the Development of the Electromobility Market : Policy Results and Future Outlook | ODYSSEE-MURE.
- [2] NECP. Croatia - Draft Updated NECP 2021-2030 - European Commission.