

Slovakia Annex - Climate Targets

Summer 2025

This is one of the more difficult NECPs to understand and use in this project. There are numbers on things such as capacity of renewable energy, but other numbers are scattered in hard to read tables and with a machine less than desirable machine translation. The other central issue that they refer to the annex where one would usually find the desired information, but I haven't found it [1, 318]. The third problem is that the numbers which are given seem to only be estimations and not targets something that could be because of the translation or because of a lack of targets. They do have percentage targets which could imply that we are working with are targets, but that is the only indication. I have therefore added them as targets, but not making them explicit.

1 Supply

Slovakia has the target of being carbon neutral by 2050. [1, 50] As in other countries Slovakia has a central goal of percentage renewable energy from the EU and has structured trajectories for the different sectors production. This is broken down in total, heating and cooling, and transport. They have given this trajectories in GWh and in MW [1, 55]. GHG reduction target in 2030 [1,]

1.0.1 Capacity targets

Here is the projected production of the different types [1, 42].

	2026		2027		2028		2029		2030	
	MW	GWh	MW	GWh	MW	GWh	MW	GWh	MW	GWh
Pumped Hydroelectric Power Plants (PVE)	916	450	916	450	916	450	916	500	916	500
Hydro	1,731	4,754	1,742	4,785	1,753	4,816	1,754	4,819	1,755	4,822
Geothermal	4	28	4	28	4	28	4	29	4	30
Solar – PV	1,080	1,134	1,160	1,218	1,240	1,302	1,320	1,386	1,400	1,470
Wind (onshore)	200	400	300	600	400	800	500	1,000	750	1,500

Table 1: Energy production and capacity forecast

2 Demand

n/a

2.0.1 EV targets

Good targets for EV cars with good breakdown of different types of EVs [1, 41].

2.0.2 Heat pumps

Good numbers for the estimated heat demand [1, 248]

2.0.3 Climate target

22 percent reduction of GHG gasses compared to the 2005 levels [1, 38].

2.0.4 Storage

n/a

References

- [1] NECP. Slovakia - Draft Updated NECP 2021-2030 - European Commission.