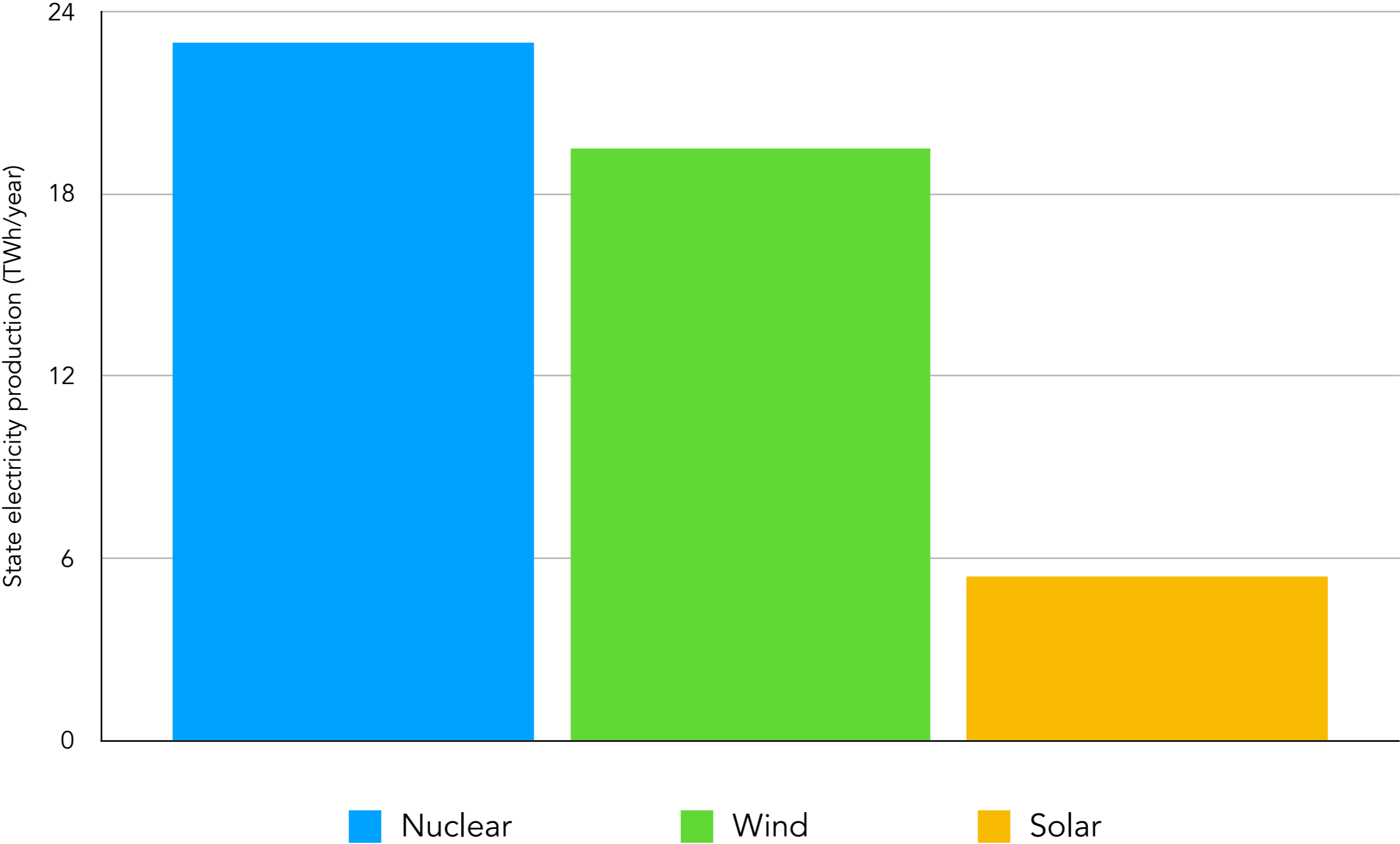


Spain



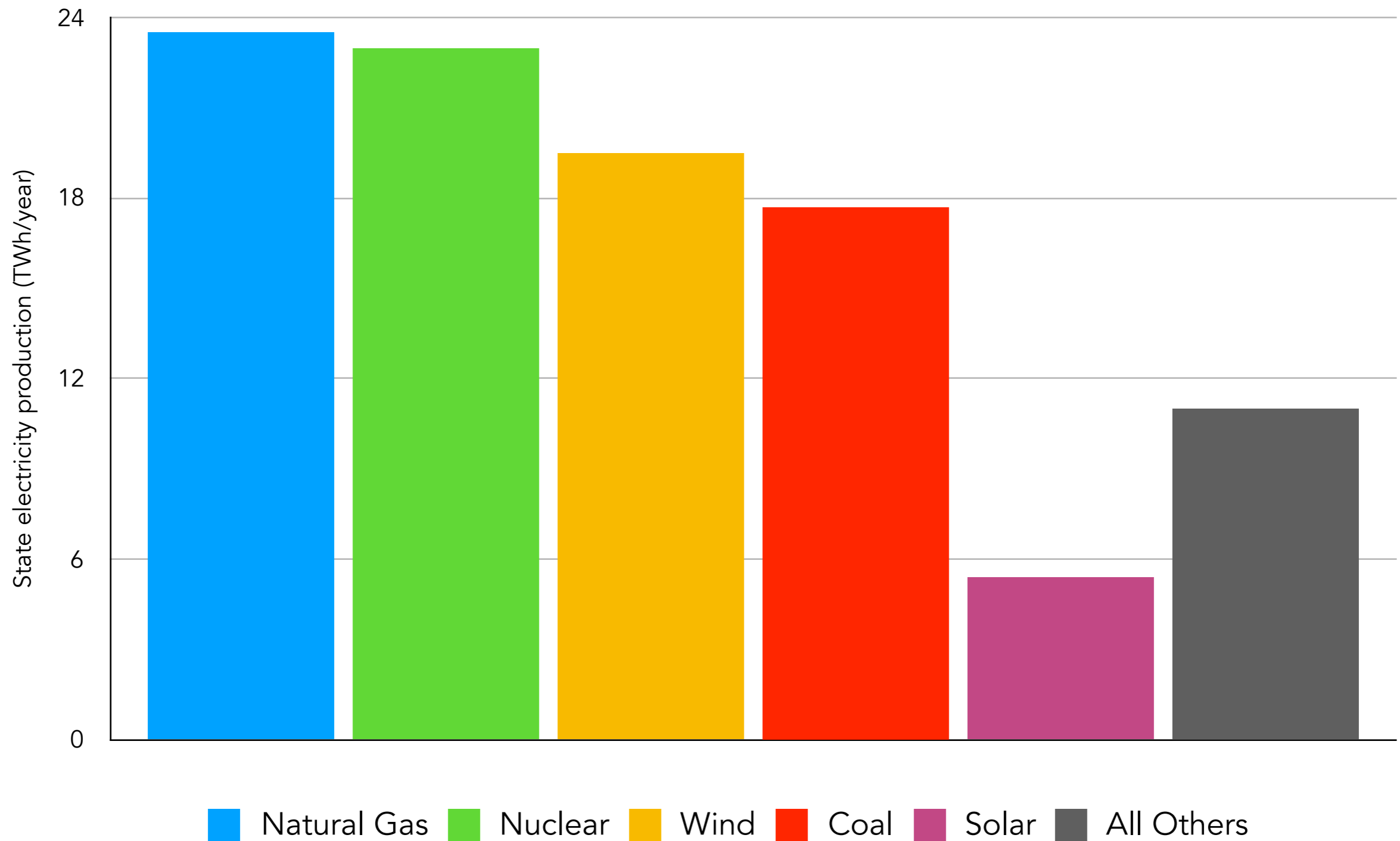
Nuclear is Spain's Largest Source of Clean Energy



Source: Data from ENTSO-E Transparency platform. In 2017, Spanish natural gas and coal operated at 21% and 51% capacity factors. Electricity mix without nuclear assumes 2017 generation but with nuclear replaced by 2/3 gas and 1/3 by coal.

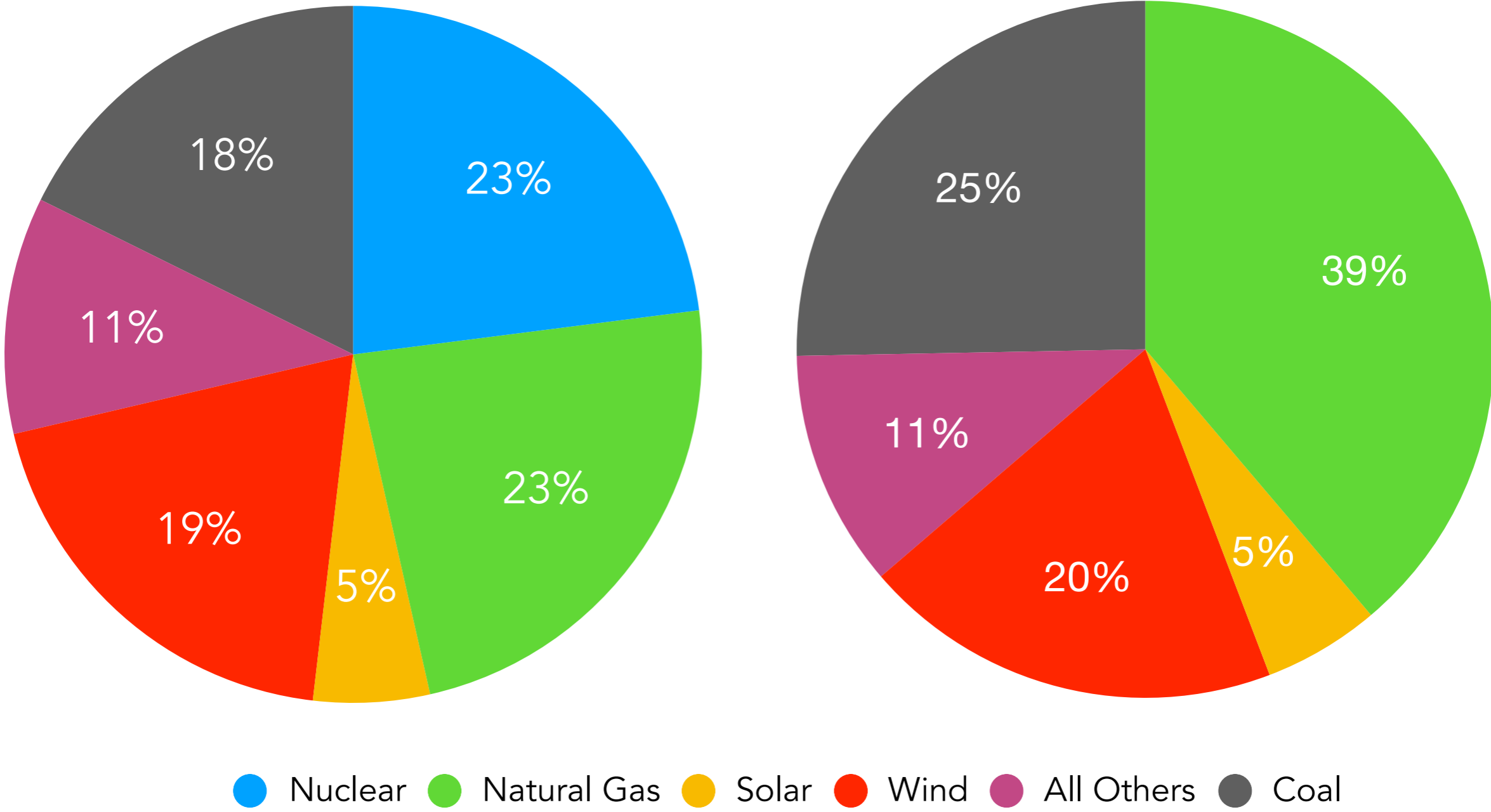


Spain's Electricity Mix



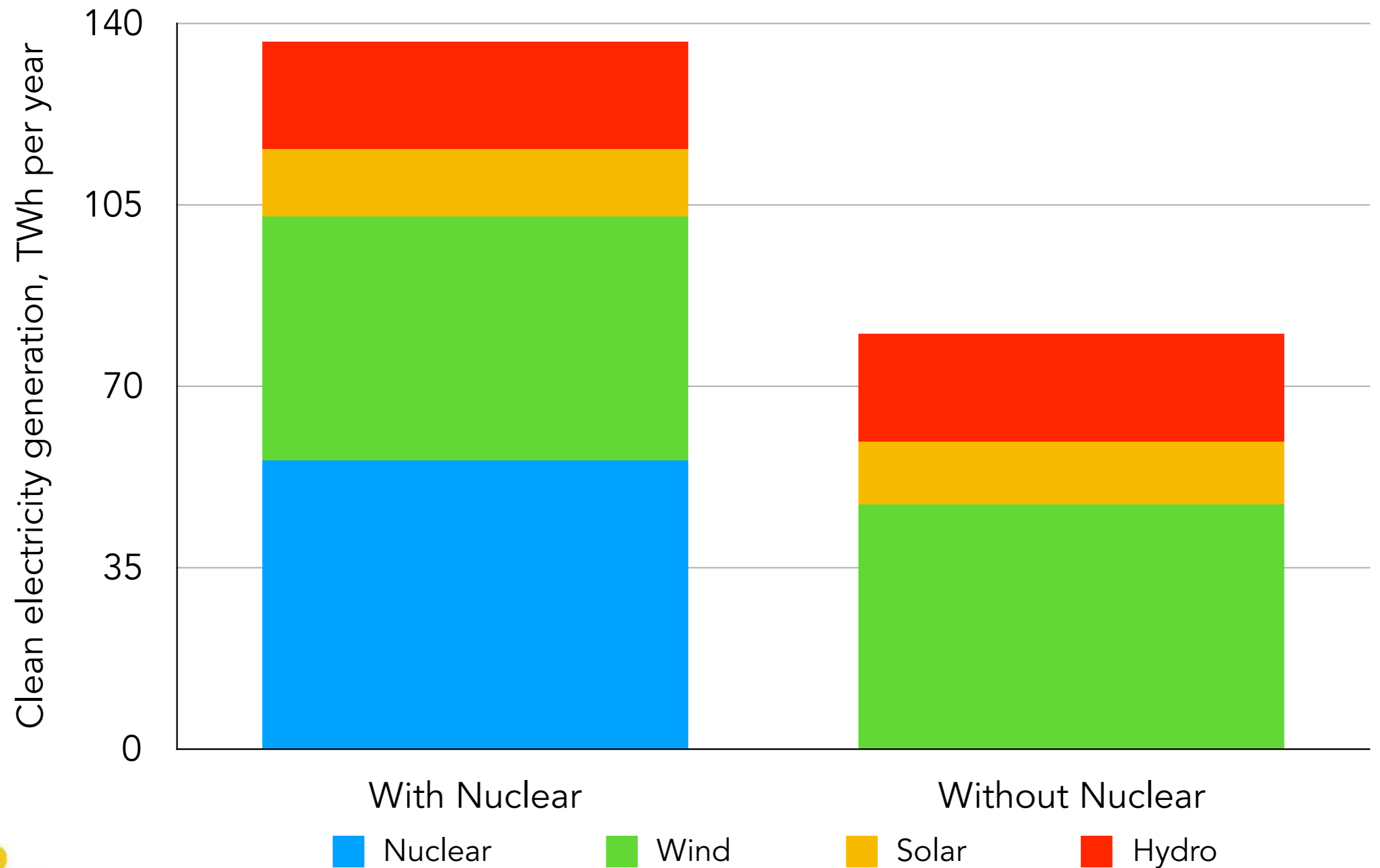
Source: Data from ENTSO-E Transparency platform. In 2017, Spanish natural gas and coal operated at 21% and 51% capacity factors. Electricity mix without nuclear assumes 2017 generation but with nuclear replaced by 2/3 gas and 1/3 by coal.

Spain's electricity mix without nuclear would be dominated by fossil fuels



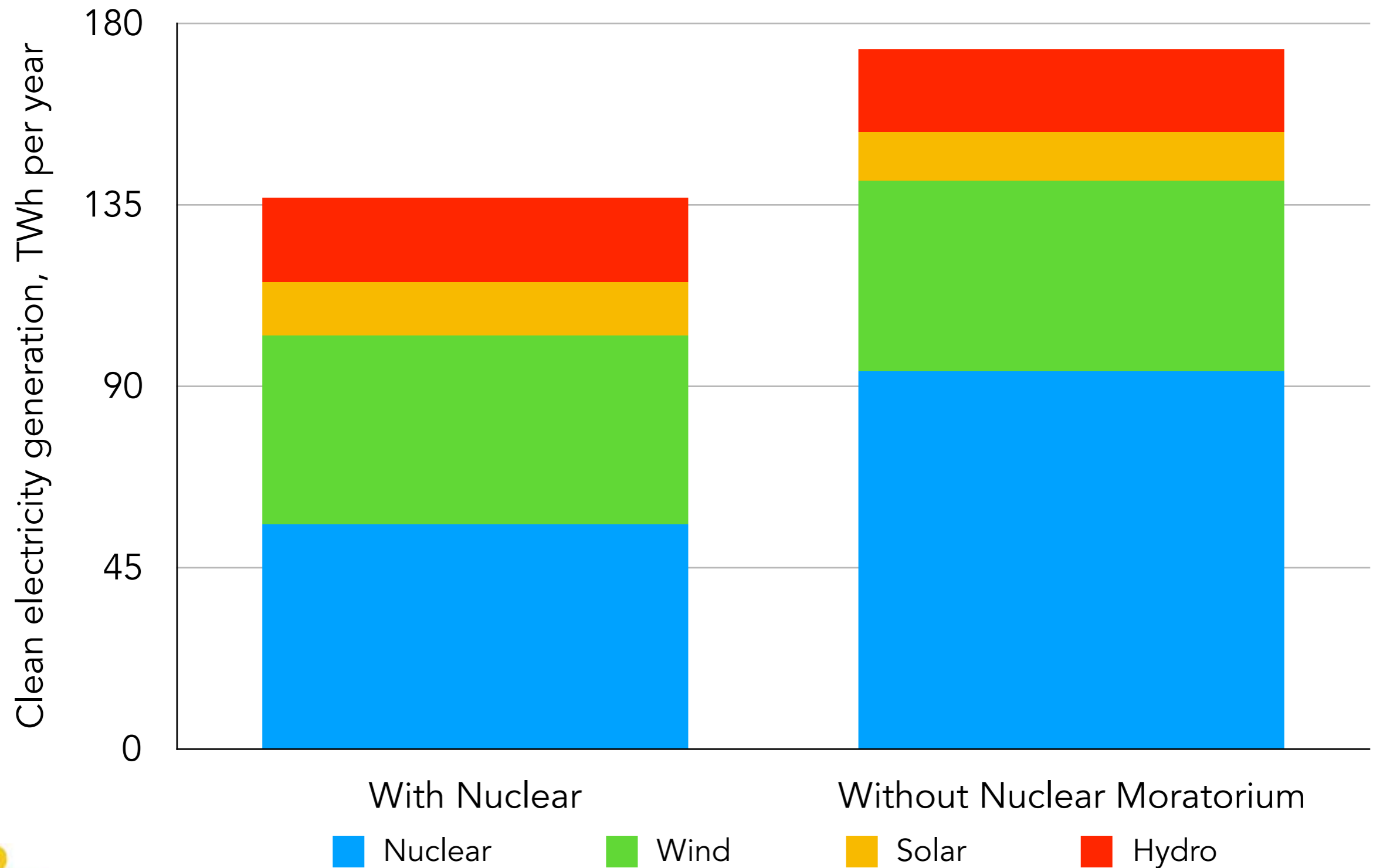
Source: Data from ENTSO-E Transparency platform. In 2017, Spanish natural gas and coal operated at 21% and 51% capacity factors. Electricity mix without nuclear assumes 2017 generation but with nuclear replaced by 2/3 gas and 1/3 by coal.

Spain's clean energy with and without nuclear



Source: ENTSO-E Transparency platform, 2017 generation data for Spain

Spain's clean energy with/without moratorium



With Nuclear

Without Nuclear Moratorium

Nuclear

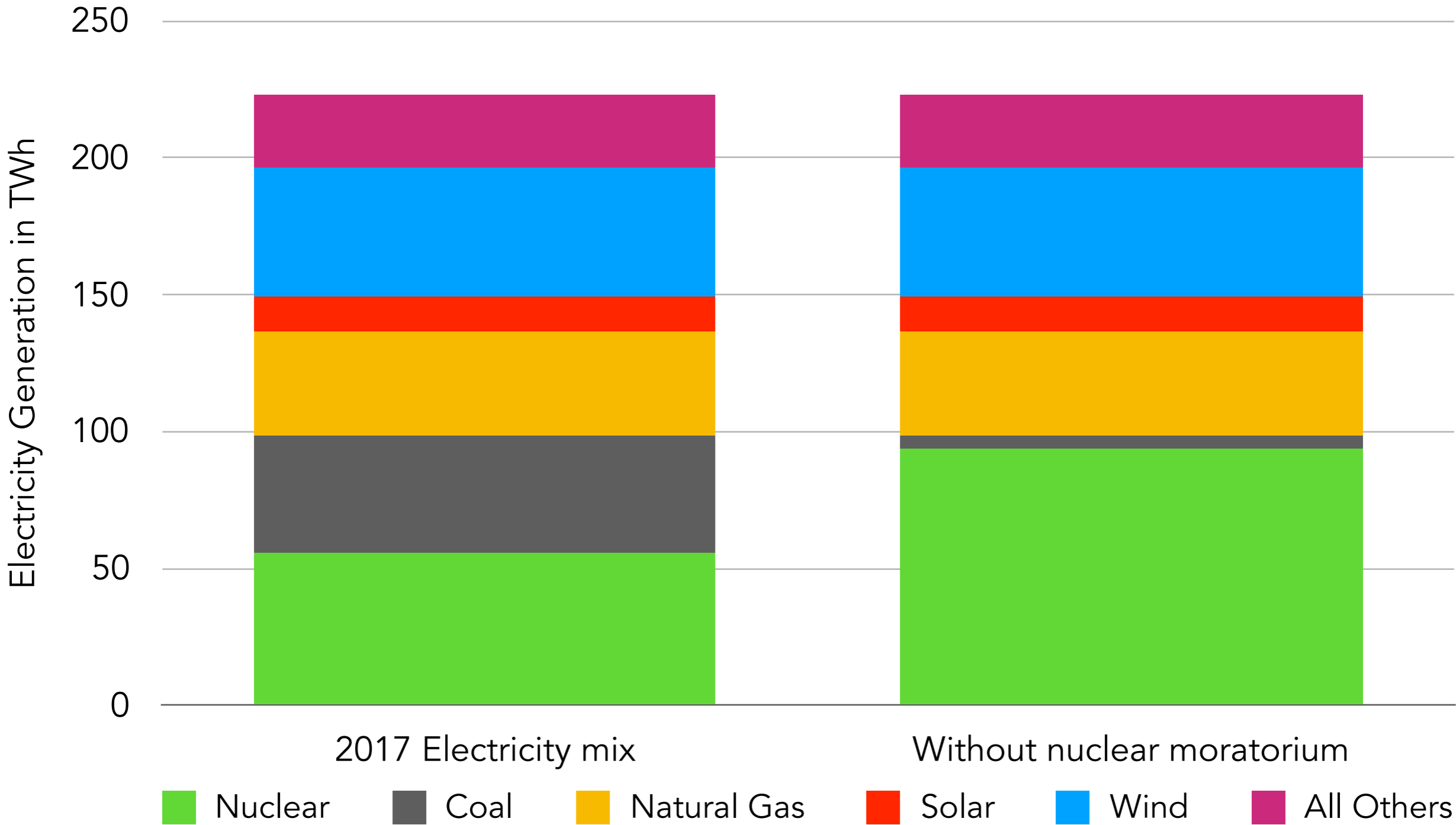
Wind

Solar

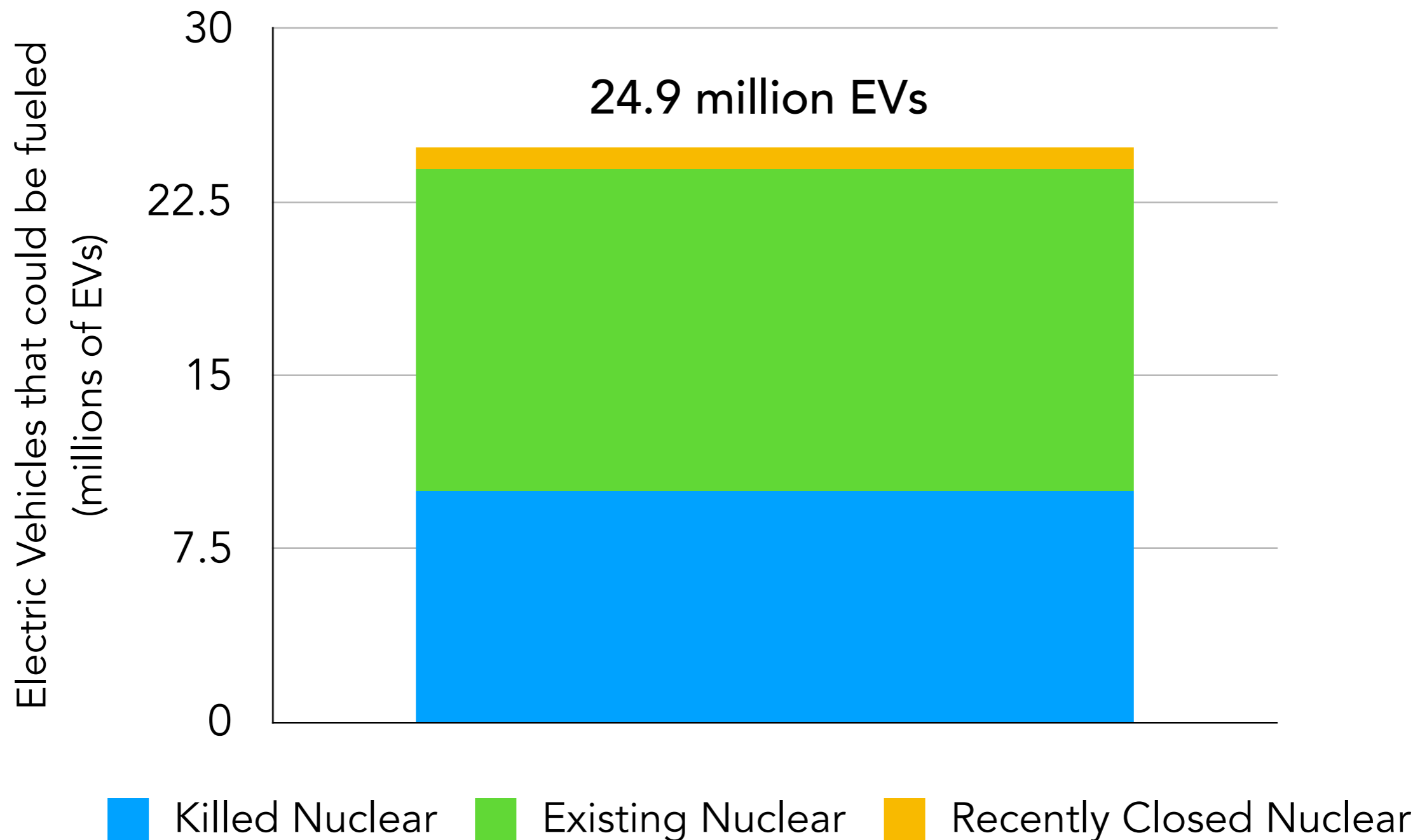
Hydro

Source: ENTSO-E Transparency platform, 2017 generation data for Spain

Spain's nuclear moratorium killed five reactors that were already completed, under-construction, or planned, locking in coal and natural gas



Spain's nuclear plants could have powered 25M EVs



Source: Existing nuclear generation from IAEA-PRIS. Recently closed nuclear includes Santa Maria de Garoña's generation from IAEA-PRIS. Figure assumes EVs driving 19080 km per year at a rate of 5km per kWh.

Spain's remaining nuclear avoids the carbon equivalent of 14.5 million new cars on the road.

Assumes new Spanish cars driving 19080 km per year at an efficiency of 115g-CO₂ emitted per km. Replacement power is assumed to come from a mix of 2/3rds natural gas, 1/3rd coal, with a weighted emissions intensity of 0.60 kg-CO₂ per kWh replacing 53 TWh of nuclear generation per year.

