

Electricity: Hydro

As at 2015 Nigeria had 1.94 GW capacity of large-scale hydropower with available capacity of 1.23 GW which generated about 8.34 TWh. Large-scale hydroelectricity contributed 29.64% of the total grid electricity generation. Currently, a 3050 MW hydropower project in Mambilla region is under construction and should be completed by 2025. As at 2015, the country had 0.064 GW capacity of small-scale hydro.

Level 1

Level 1 assumes that the large hydropower capacity reaches 11 GW by 2050 with a further 1.2 GW generated by small hydro. This will generate approximately 63.05 TWh per year.

Level 2

Level 2 assumes that the large hydropower capacity reaches 15 GW by 2050 with a further 1.75 GW generated by small hydro. This will generate approximately 86.57 TWh per year.

Level 3

Level 3 assumes the large hydropower capacity reaches 19 GW by 2050 with 2.6 GW of small hydropower capacity. This is capable of generating 111.64 TWh per year.

Level 4

Level 4 assumes the large hydropower capacity reaches 21.5 GW by 2050, through utilising 90% of the country's hydropower potentials with 3.5 GW of small hydro. This capacity can generate 128.33 TWh per year.

Default Timing Start Year: 2025 End Year: 2050

Electricity: Hydro						
Sub-Lever	Units	2015	Level 1	Level 2	Level 3	Level 4
Large	GW	1.23	11.0	15.0	19.0	21.5
Small	GW	0.064	1.2	1.75	2.6	3.5

