

Electricity: Biomass

Currently there is no biomass power plant in operation in Nigeria, however, a 0.005GW Biomass power plant is under construction. The plant will use agricultural products residues.

Level 1

Assumes that only 2 GW of biomass power plant will be available up to year 2050. This will produce about 15 TWh per year.

Level 2

Assumes a 5 GW of biomass power plant should be available by 2050 and producing 37 TWh per year.

Level 3

Level 3 assumes a 10 GW of biomass power plant by 2050 which will produce 74 TWh per year.

Level 4

Assumes 20GW of biomass power plants by 2050. This can produce 147 TWh per year.

Key Interaction

Biomass for power has a direct impact on the demand for biomass. Biomass can be created from waste and biomass grown, but these have limited availability. Demand has to be satisfied by Nigerian production. Bioenergy production can be controlled through the Land Use & Biofuels levers.

Default Timing Start Year: 2030 End Year: 2050

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Sub-Lever	Units	2015	Level 1	Level 2	Level 3	Level 4
Biomass Capacity	GW	0	2	5	10	20

