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 2.6 GW of biomass power plant will be available up to year 2050. This will produce about 20.5 TWh per year.

Level 2

Assumes a 3.5 GW of biomass power plant should be available by 2050 and producing 27.59 TWh per year.

Level 3

Level 3 assumes a 4.5 GW of biomass power plant by 2050 which will produce 35.47 TWh per year.

Level 4

Assumes 10GW (West African Power Poll studies carried out by IRENA) of biomass power plants by 2050. This can produce 78.84TWh 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: 2025 End Year: 2050

Electricity: Biomass							
Sub-Lever	Units	2015	Level 1	Level 2	Level 3		Level 4
Biomass Capacity	GW	0	2.6	3.5	4.5		10