

Biomass Power Plants

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 0.005GW of biomass power plant will be available up to year 2050. This will produce about 0.04TWh.

Level 2

Assumes a 1GW of biomass power plant should be available by 2050 and producing 7.88TWh with 90% capacity factor.

Level 3

Level 3 assumes a 4GW of biomass power plant by 2050 which will produce 31.54TWh with 90% capacity factor.

Level 4

Assumes 10GW (West African Power Poll studies carried out by IRENA) of biomass power plants by 2050. This can produce 78.84TWh. Biomass plant relies on crop residues and energy crops



37.5 MW Plainfield Biomass Power Plant, Connecticut New England, USA.

