

Land Use and Waste Sector: Forestry

Forest area is land under natural or planted stands of trees of at least 5 meters in situ, whether productive or not, and excludes tree stands in agricultural production systems (for example, in fruit plantations and agroforestry systems) and trees in urban parks and gardens. Forest area (% of land area) in Nigeria was 7.68 as of 2015. Its highest value over the past 31 years was 18.92 in 1990. (FAO). Greenhouse Gas Inventory projections indicated that though forestland is a natural sink of CO2, the situation at the national level is not so, as emissions exceeded removals. A general increase in net CO2 emissions is observed, due to deforestation and increased wood removals in the existing areas. It is expected that aggressive afforestation and reforestation exercise is needed to offset the increasing anthropogenic emissions associated with forestry in Nigeria.

Key Interactions

Land area needed for livestock and food crops can be reduced using the Farming Yield & Efficiency lever, so freeing up this land for Forestry. Aggressive reforestation of Woodland also provides bioenergy material in the form of saw dust from saw mills, and branches and saplings that are trimmed away as part of managing the forest. The amount of forest material collected for bioenergy is controlled by the Land for Bioenergy lever.

Further emissions savings are possible through using wood as a carbon store (for example timber in construction) and hence avoiding emissions associated with the products that are replaced.

Level 1

Levels of forestry remain the same as the base year.

Level 2

Massive reforestation exercise to increase forestland cover to 9% by year 2070, and Afforestation has reduced the desert land area from 35% in the base year (2015) to 25% of the total mass land area by 2050.

Level 3

Aggressive reforestation to increase forestland cover to 13% by year 2070, and More aggressive afforestation exercise has further reduced the desert land area to 20%.

Level 4

Peak reforestation to increase forestland cover to 15% by year 2070, and Most aggressive afforestation exercise has further reduced the desert land area to 10%.

Advanced fertilizer formulations which incorporate innovations such as nitrification inhibitors become widely adopted in the longer term. And the use of biofuel to decarbonize machinery used in agriculture

Sub Lever	Units	2015	Level 1	Level 2	Level 3	Level 4
Forest Area	%	7.68	7.68	9	13	15

