Transport: Aviation Biofuel

This lever controls the sub-levers listed in the table, and ambition levels are for the end year shown on the right-hand side.

Domestic Aviation in Kenya is powered by two fuel types – Aviation Gasoline (AV GAS) and Jet Kerosene (Jet A1).
90% of the domestic airlines use AV GAS and 10% of the domestic airlines use JET A1 fuel.
International Aviation in Kenya is powered by Jet Kerosene (Jet A1) only.

Biofuels have the potential to reduce greenhouse gas (GHG) emissions as the CO2 produced at the tail pipe has been absorbed during the growth of the biomass used.
The net GHG emissions impact of biofuel is therefore generally low being just those incurred in the supply chain, although for some crops (such as oil seeds) the impact can be much higher, hence the interest in biofuel production from wastes such as used cooking oil.

Aviation has fewer options for decarbonization since full electrification of large planes is not thought to be technically feasible.
However, biofuels represent a potentially straightforward way to reduce emissions from air travel.

Key interactions
Increasing the use of biofuels in transport has implications for how that increased demand for biofuels will be satisfied. Biofuels can be created from waste and biomass grown in Kenya.
Kenya`s bioenergy production can be controlled through the Land Use & Biofuels levers.

Level 1
The share of biofuels in aviation fuels remains zero.

Level 2
The share of biofuels in aviation fuel is 10% as per the estimates provided by the transport sector experts consulted.

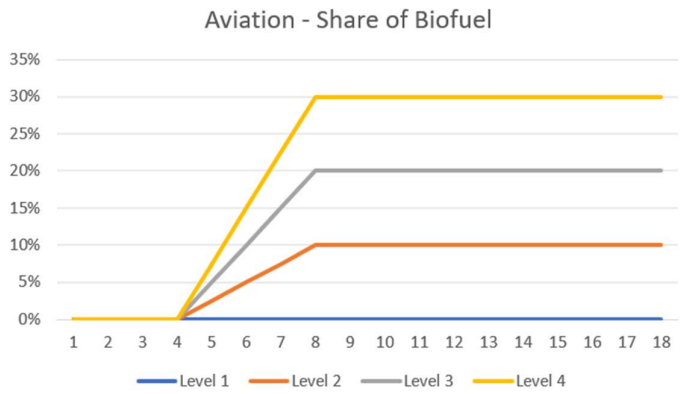
Level 3
The share of biofuels in aviation fuel is 20%, as per the estimates provided by the transport sector experts consulted.

Level 4
The share of biofuels in aviation fuel is 20%, as per the estimates provided by the transport sector experts consulted.

Default Timing

Start year: 2020, End year: 2050

Sub-Lever	Units	2015	Level 1	Level 2	Level 3	Level 4
Aviation Domestic	share	0.0	0	0.1	0.2	0.3
Aviation International	share	0.0	0	0.1	0.2	0.3



Ministry of Energy