

## Waste reduction

Around 10% of the national greenhouse gas emissions come from the waste sector. As waste generation will increase in tandem with population growth, it is vital to decrease the average waste generation per capita, increase recycling rate and generate energy from waste that will otherwise get disposed and release greenhouse gas.

In the base year 2016 in the MCAS model, dry wastes amounted to 2,023,234 odt of which 10.5% were recycled and 3% were used for energy, wet wastes amounted to 2,023,234 odt and used cooking oil amounted to 545 kt.

### Level 1

Level 1 assumes that by 2050 , the quantity of dry wastes increases by 20% (22% recycled and 5% used for energy), the quantity of wet wastes decreases by 20% (5% used for energy); the quantity of used cooking oil increases by 20% (5% used for energy).

### Level 2

Level 2 assumes that by 2050 , the quantity of dry wastes decreases by 0% (40% recycled and 12% used for energy), the quantity of wet wastes decreases by 0% (12% used for energy); the quantity of used cooking oil decreases by 0% (12% used for energy).

### Level 3

Level 3 assumes that by 2050 , the quantity of dry wastes decreases by 10% (55% recycled and 18% used for energy), the quantity of wet wastes decreases by 10% (18% used for energy); the quantity of used cooking oil decreases by 10% (18% used for energy).

### Level 4

Level 4 assumes that by 2050 , the quantity of dry wastes decreases by 25% (65% recycled and 24% used for energy), the quantity of wet wastes decreases by 25% (24% used for energy); the quantity of used cooking oil decreases by 25% (24% used for energy).

### Interaction with other choices

None.

Table 1 . Sub-levers for the waste category.

Sub-lever	Units	2016	Level 1	Level 2	Level 3	Level 4
<b>Waste production</b>						
Dry waste	Index	1	1.2	1	0.9	0.75
Wet waste	Index	1	1.2	1	0.9	0.75
UCO	Index	1	1.2	1	0.9	0.75
<b>Recycling rate</b>						
Dry waste	Share	10.5%	22%	40%	55%	65%
<b>Energy processes</b>						
Dry waste	Share	3%	5%	12%	18%	55%
Wet waste	Share	NA	5%	12%	18%	55%
UCO	Share	NA	5%	12%	18%	55%
POME	Share	NA	13%	22%	27%	32%
<b>Fugitive landfill gas</b>						
Emissions	Share	96%	96%	88%	67%	50%