

Mauritius 2050 Pathways Calculator
(Version 1)
Onshore Wind Energy

For onshore wind energy, the updated Energy Strategy Action Plan 2011 – 2025 provides a timeline for installed capacity as summarized in Table 1.¹ Although there are no onshore wind farms in operation in Mauritius (island of Mauritius) to date, it can be assumed that there is a committed installed capacity of 38.4 MW to 2016.

Table 1: Installed wind capacity to 2025, MW.

Year	2015	2016	2017	2020	2023	Total
Installed capacity (MW)	9 (Plaines des Roches)	29.4 (Plaine Sophie)	20	20	20	100

Source: Energy Strategy 2011 – 2025: Action Plan Updated (as at 22 April 2014). Please see - <http://publicutilities.govmu.org/English//DOCUMENTS/ENERGY-STRATEGY.PDF>.

Definition of trajectories

In version 1 of the Mauritius 2050 Pathways Calculator, the four levels for the development of onshore wind power are defined as follows:

Level 1	The committed wind installed capacity to 2016 of ~40MW is implemented, and no policy support is provided for the further development of onshore wind power. In this case, 8 MW of onshore wind turbines are commissioned annually between 2015 and 2020. These turbines are decommissioned as from 2035 at a rate of 8 MW/year. Hence, there are no more installed turbines in 2040.
Level 2	There is a peak installed capacity of 75 MW onshore wind energy. The trajectory builds on the Level 1 installed capacity by adding 7 MW of wind power each year between 2020 and 2025.
Level 3	Peak installed capacity for onshore wind power reaches 100 MW. This is achieved through the addition of 8 MW annually between 2015 and 2020 (i.e. 40 MW as in Level 1); 8 MW annually between 2020 and 2025 (i.e. 5 MW more than in Level 2); and 4 MW annually between 2025 and 2030 (i.e. total of 20 MW). The cumulative addition gives 100 MW peak between 2030 and 2035.
Level 4	Peak installed capacity for onshore wind power reaches 150 MW. This is achieved through the addition of 8 MW annually between 2015 and 2020 (i.e. 40 MW as in Level 1); 10 MW annually between 2020 and 2025 (i.e. 10 MW more than in Level 3); and 12 MW annually between 2025 and 2030 (i.e. 40 MW more than in Level 3). The cumulative addition gives 150 MW peak between 2030 and 2035.

¹ Energy Strategy 2011 – 2025: Action Plan Updated (as at 22 April 2014).