

Madagascar

Madagascar, officially the Republic of Madagascar, is an island country in the Indian Ocean, off the coast of East Africa. The country covers an area of 587,295 square kilometres and has a population of 25.57 million. About 35% of the population reside in urban areas. Most of the population live on the eastern half of the island, with a significant cluster in the central highlands and eastern coastline.

The Directorate of Sanitation under the Ministry of Water, Energy and Hydrocarbons is responsible for solid waste management (SWM). Other institutions involved in SWM include the Ministry of Health and the Ministry of Territorial Development. There is a basic law on SWM but there is no policy nor national budget. The informal sector participates in SWM through the recycling of waste but there is no specific policy for supporting this sector.

Information

Population*	25.57 million (2017)
Population growth (annual %)*	2.7 (2017)
Area (km ²)*	587,295
GDP (current USD)*	11.50 billion (2017)
GDP growth (annual %)*	4.2 (2017)
GNI per capita, Atlas method (current USD)*	400 (2017)
Main industries**	Agriculture, tourism, manufacturing
Currency***	USD 1 : MGA 3,681.25 (Malagasy ariary) (September 2019)

Sources: * World Bank, Madagascar, accessed 9 April 2019, <<http://databank.worldbank.org/data/reports.aspx?source=2&country=MDG>>

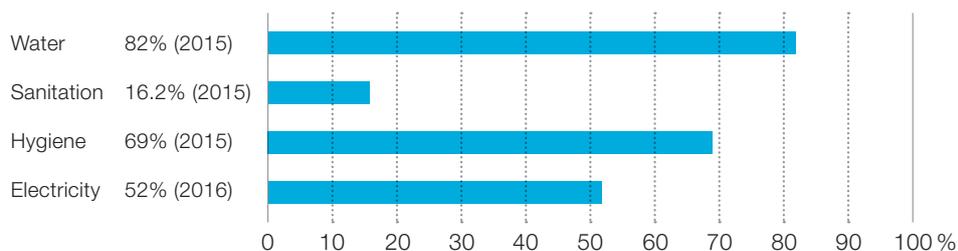
** Wikipedia, Madagascar, accessed 2nd August 2018, <<https://en.wikipedia.org/wiki/Madagascar>>

*** Oanda.com

Current SWM Situation

Item	Outline
Legal system	<ul style="list-style-type: none"> ● Code of Water (Law 98-029 of January 1999). ● Urban Sanitation Management and Royalties (Law 95-035 of 1995). ● Charter of the Environment.
Policy/Plan	<ul style="list-style-type: none"> ● There is no policy on SWM.
Implementation system	<ul style="list-style-type: none"> ● The Directorate of Sanitation, under the Ministry of Water, Energy and Hydrocarbons is responsible for SWM. Other institutions involved in SWM include the Ministry of Health and Ministry of Territorial Development. ● Number of staff in the SWM department: <ul style="list-style-type: none"> » 5 people work in the department. » 3 people took SWM or related course in university. » 5 people have worked in the SWM sector for over five years. ● Collection of SWM data: There is a system for collecting SWM data from the local governments. The system covers many cities, but data is not collected frequently. ● Informal sector participation: The informal sector participates in SWM but there is no specific policy for supporting this sector. ● Disposal: No data on sanitary landfill.
Financial system	<ul style="list-style-type: none"> ● There is no national budget for SWM. ● There is a tax related to SWM. ● There is a subsidy related to SWM, for a waste collection service in the capital.
Donor support	<ul style="list-style-type: none"> ● French Development Agency (AFD).
Areas for improvement	<ul style="list-style-type: none"> ● Clarification of the roles and responsibilities of ministerial departments (still vague). ● Sector Policy and Strategy, Sustainable Management Plan. ● Establishment of National Fund for Sanitation. ● Citizen Education on Hygiene.

Status of Access to Basic Services* (in urban area)



*The definition of each basic service is on page 1 of ANNEX.

Estimated Waste Amount (estimate)

The future amount of waste generation is estimated based on the projection of urban population at three waste generation rates, i.e. 0.5, 0.75, and 1.0 kg/person/day.

		unit: thousand persons			
Population	Year	2015	2020	2025	2030
	Total	24,234	27,691	31,500	35,592
	Urban	8,529	10,670	13,200	16,102

		unit: thousand ton/day			
Waste Amount	Generation rate	2015	2020	2025	2030
	0.50 kg/pers/day	4.3	5.3	6.6	8.1
	0.75 kg/pers/day	6.4	8.0	9.9	12.1
	1.00 kg/pers/day	8.5	10.7	13.2	16.1

Waste Amount = (generation rate) x (urban population)

Source for population: United Nations, Department of Economic and Social Affairs, Population Division (2018). World Urbanization Prospects: The 2018 Revision, Online Edition.

