

# MADAGASCAR A BRIGHT FUTURE FOR THE ISLAND

## MALAWI FACTS

24.24 Mio.  
13%  
162 MW  
0 MW  
61%  
884 GWh  
180,000 GWh

Population  
Access to electricity  
Installed hydro capacity  
Hydro capacity under construction  
Share of generation from hydropower  
Hydro generation  
Technically feasible hydro generation potential

## ANDRITZ HYDRO

105 MW  
20  
65.37%

Installed capacity  
Installed units  
Fleet share

The World Bank, IEA, World Energy Outlook, Hydropower & Dams World Atlas 2016

by Wilhelm Karanitsch  
wilhelm.karanitsch@andritz.com

**Madagascar** is an island country in the Indian Ocean off the coast of Southeast Africa. The main island is the world's fourth-largest. Madagascar suffers from a slow economy. Tourism and agriculture, together with big investments in education, health, and private enterprise are essential to the government's development strategy. In recent years, these investments have produced some substantial economic growth.

Madagascar has a technically feasible hydropower potential of about 180,000 GWh. Less than 1% has been developed so far, with 162 MW of installed hydro capacity producing 61% of the nations' electricity.

In 2016, the government introduced the "New Programme for Energy" to increase generation capacity and therefore boost hydropower development. Under this premise three major sites for hydropower schemes have been identified with a total capacity of more than 500 MW. One project – HPP Sahofiaka on the Onive River – could already be contracted. For HPP Volobe Upstream on the Irondro River and HPP Antetazambato on the Mania River the bidding processes are ongoing. A further 13 small hydropower sites have been identified, seven at less than 15 MW.

## ANDRITZ HYDRO

Since beginning of the 20<sup>th</sup> century ANDRITZ HYDRO has delivered or rehabilitated 20 units for Madagascar, representing 65% of the nation's total installed capacity. Hydropower plants such as HPP Mandraka, HPP Antelomita, and HPP Volobe are part of ANDRITZ HYDRO's reference list.

In 2016, BETC Nanala, a Malagasy-owned developer, awarded three contracts to ANDRITZ HYDRO for the supply design, manufacturing, delivery, installation supervision, and commissioning supervision for HPP Maheriara (one 750 kW Francis unit), HPP Androkabe (two 800 kW Francis units), and HPP Ambatomanoia (two 50 kW Banki units).

ANDRITZ HYDRO is also involved in several operational projects for rural electrification.