



NAMIBIA
COP27 • 2022

Water Day: Panel Discussion on Climate Change and Water Security

15 November 2022 - 09h00

INTRODUCTION

According to the Synthesis Report of the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report, global patterns of temperature and precipitation have significantly changed over the last century. In Africa, the observed and projected rate of surface temperature has increased more rapidly than the global averages, with human-induced climate change being the main driver. An ambient temperature increase of at least 2°C is predicted in south western Africa where Namibia is found, in combination with a decrease in mean precipitation, but accompanied by heavy precipitation and pluvial flooding, interspersed with more intense drought periods. Increases in global mean surface temperature will exacerbate water scarcity in semi-arid regions like Namibia.

The vulnerability of populations in the semi-arid regions in south western Africa to water scarcity is projected to impact 178 million people by 2050 at average increase of 1.5°C, 220 million people at a 2°C increase, and 277 million people at a 3°C increase, respectively. Concurrent increases in human population, income, changes in consumption patterns, will further result in increased water demand in 2050. Water quality also has an impact on water scarcity when considered from the perspective of the availability of water of sufficient standard to meet humanity's needs. In view these climate change challenges, to enhance resilient and improve water security in Namibia various adaptation measures are been implemented such as the use of unconventional water resources by the desalinating of sea and brackish water using hybrid renewable energy, artificial recharge of underground aquifers with surface water harvested in man-made dams, implementation of water demand management practices, and wastewater reclamation etc.

Speaker	Topic	Time
Mr. Johannes Sirunda Acting Chief Scientific Officer, Namibia Water Corporation (NamWater).	Desalination	09:00 – 11:00
Ms. Bernice Ndaitwah Process and Research Manager, Windhoek Goreangab Operating Company (WINGOC).	Waste Water Reclamation	
Ms. Pauline Mufeti Deputy Director: Hydrology Division, Ministry of Agriculture Water and Land Reform.	Early Flood and Drought Warning, a Namibia Context	
Mr. Pedro Maritz Member of the Technical Committee of Experts on Water Supply Security	Water Infrastructure Planning in Context of Climate Change	



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Ms. Maria Amakali Director: Directorate of Water Resource Management, Ministry of Agriculture Water and Land Reform	Water and Climate	
An informal event showcasing work by NamWater, SASSCAL and others		13:00 – 14:00



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