

3. Capacity Building: Namibia Youth for Green Hydrogen (Y4H2) Scholarships

The Y4H2 scholarship programme will facilitate capacity building for the emerging Green Hydrogen industry, to avail more opportunities for employment of youth in the country. Experts anticipate that the number of jobs within the emerging Green Hydrogen economy will grow exponentially over the coming years. Namibia is an optimal location for the production of Green Hydrogen and its derivatives; thus, it is vital that the Namibian Government takes a leadership role in building capacities for this new industry, and ensures that people are trained and ready to contribute to the emerging Green Hydrogen economy workforce.

As a first move towards building a Green Hydrogen ready workforce, the scholarship has been designed to mainly target graduates and those interested in advancing in Vocational Education and Training in the field of Green Hydrogen.

The Y4H2 Programme-Namibia offers scholarships to Namibian Youth (18 – 35 years old) in the following two categories related to the Green Hydrogen value chain:

1. Masters' degree
2. Technical Vocational Education and Training

In December 2022, the inaugural Y4H2 scholarship successfully granted **64 Master's degree** scholarships and **29 TVET** scholarships. Now, in September 2023, we are thrilled to announce the second round of the Y4H2 call for Master's degree and TVET Scholarship Applications.

This marks a crucial step in the implementation of the JCol between the Namibian and German Governments, dedicated to propelling the growth of the Green Hydrogen industry in Namibia.

PARTNERS

Collaborating Partners

- Namibian Government
- The German Federal Ministry of Education and Research (BMBF)

Implementing Partner

- The Southern African Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL)

This cooperation isn't the first in SADC; BMBF has funded the production of green hydrogen generation potential (H2Atlas) in SADC. The H2Atlas Africa (www.h2atlas.de/en/) project is coordinated by SASSCAL in 12 countries in SADC.

SASSCAL Regional Secretariat

28 Robert Mugabe Avenue,
(c/o Robert Mugabe & Newton Street)
Windhoek, Namibia
P.O. Box: 87292, Windhoek

SCAN NOW



“GO Green Go Africa”



SPONSORED BY THE



Federal Ministry of Education and Research

Implementation of the JCol on **RENEWABLE ENERGY** and **GREEN HYDROGEN** between Namibia and Germany



IMPLEMENTED BY



INTRODUCTION

Green hydrogen is fast becoming a topic of global interest among environmentalists, energy experts and governments, as the world looks towards more environmental friendly forms of energy. Green hydrogen refers to hydrogen fuel that is created using renewable energy rather than fossil fuels, producing only water as a by-product. It can be in gas or liquid form and can be converted into electricity, and is quickly emerging as a potential solution for sectors such as aviation, marine shipping and other heavy industries. Transitioning from fossil fuels to renewable energy represents a co-benefit in terms of reduction of greenhouse gases and reducing pollution from fossil fuels that continues to cause harm to many in the developing world.

In the midst of several plans and programmes in SADC, towards advancing green hydrogen development in Southern Africa, the Namibian Government and the German Federal Ministry of Education and Research Germany (BMBF) signed a Joint Communique of Intent (JCoI) on 25th of August 2021 to promote cooperation in the fields of green hydrogen and its associated derivatives, renewable electricity and associated infrastructure development.

To enhance the SADC's adaptive and mitigation efforts on Climate change, SASSCAL is committed to enhance research and Human Capital Development programmes in order to support our region and Africa in delivering clean, safe, and reliable energy to better the lives of the people in southern Africa Development Community (SADC) countries. Currently, SASSCAL is responsible for coordinating and overseeing all green hydrogen and renewable energy projects in southern Africa and greater SADC region, including Namibia on behalf of BMBF. Through the Coordination project, SASSCAL is responsible for identifying the enabling factors and facilitating the scale-up of the pilot projects in the SADC countries, collating all data and reporting on renewable energy and green hydrogen, and increase their visibility through regular publications and stakeholder engagements

and partnerships. Furthermore, services related to renewable energy and green hydrogen will be exploited and developed to respond to the needs of the region and report the project progress, strategy, and deliverables to BMBF.

Apart from the scientific exploitation of the results and dissemination, capacity development of regional human resource, is also SASSCAL's priority. Through this project several young scientists will be trained to strengthen the industry's competence in renewable energy, green hydrogen, and energy efficiency in SADC countries.



PROGRAMMES

1. Namibia Green Hydrogen Strategy & Power-to-X Roadmap

The Namibian Green Hydrogen strategy has been developed to provide a Synthetic Fuels Roadmap and Strategy for Namibia, leveraging on the country's development, climate, and energy goals, its high Renewable Energy (RE) potential and opportunities for Green Hydrogen (GH2) offtakes in the local and international markets. The developed roadmap is supported by Namibia's national development strategy as highlighted in the Harambee Prosperity Plan II.

2. Pilot Projects

The programme is designed to support the setting up of pilot and demonstration projects, accompanying research projects, in addition to any accompanying or preparatory scientific analyses and studies. The following pilot projects are currently being implemented:

i) Daures Green Hydrogen Village – (already contracted) with project objective to produce green hydrogen and ammonia from renewable sources, create green schemes that create employment opportunities, partnerships and demonstration of green hydrogen applications in sectors like housing and agriculture.

ii) HyRail Namibia Green Hydrogen Dual Fuel Locomotive – (at contracting stage) with project objectives to convert two (2) locomotives to operate with green hydrogen fuel in dual-fuel mode (with diesel), including design, build, test, commissioning and operation of the locomotive.

iii) Cleanergy Green Hydrogen Refuelling Station – (at contracting stage) with project objectives to test and develop a green hydrogen production and refuelling plant and demonstrate how to integrate the hydrogen production and technologies into the Namibian green economy.