



Namibia Green Hydrogen Conference

NAMIBIA NATIONAL CONFERENCE ON
GREEN HYDROGEN (GH₂)

16-17 August 2022

Windhoek Country Club

Green Hydrogen Research Institute

Prof. Dr. Anicia Peters

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University of Namibia

Jointly
organised by:

economic
association
of namibia



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UNAM established and hosts a Namibia Green Hydrogen Research Institute in October 2021

Goals

- research and development hub
- provides for exchange of expertise
- upskill and reskill mid-level to professional levels
- Collaborate with organisations who develop local businesses

Staffing

- UNAM has seconded 2 x dedicated staff for coordination to the NGHRI
 - Researchers and students
 - Exchange staff and students from international institutions
 - Experts from private sector and government
 - Post docs, Masters and Doctoral Students

Namibia Green Hydrogen Research Institute (NGHRI)

Centre for
clean
Hydrogen
Production

Centre for
Hydrogen
Storage,
New
Materials,
and Delivery

Centre for
Hydrogen
Fuel Cell
Technology,
and Mobility
Applications

Centre for
Hydrogen
Energy Use,
Economics,
Law,
Environment
and Society

Centre for
Hydrogen
Capacity
Building,
Competence,
and
Standards

Centre for
Hydrogen
Digital and
Emerging
Technologies

Formulation of enabling policies, end use and environmental sustainability options for
widespread hydrogen energy usage

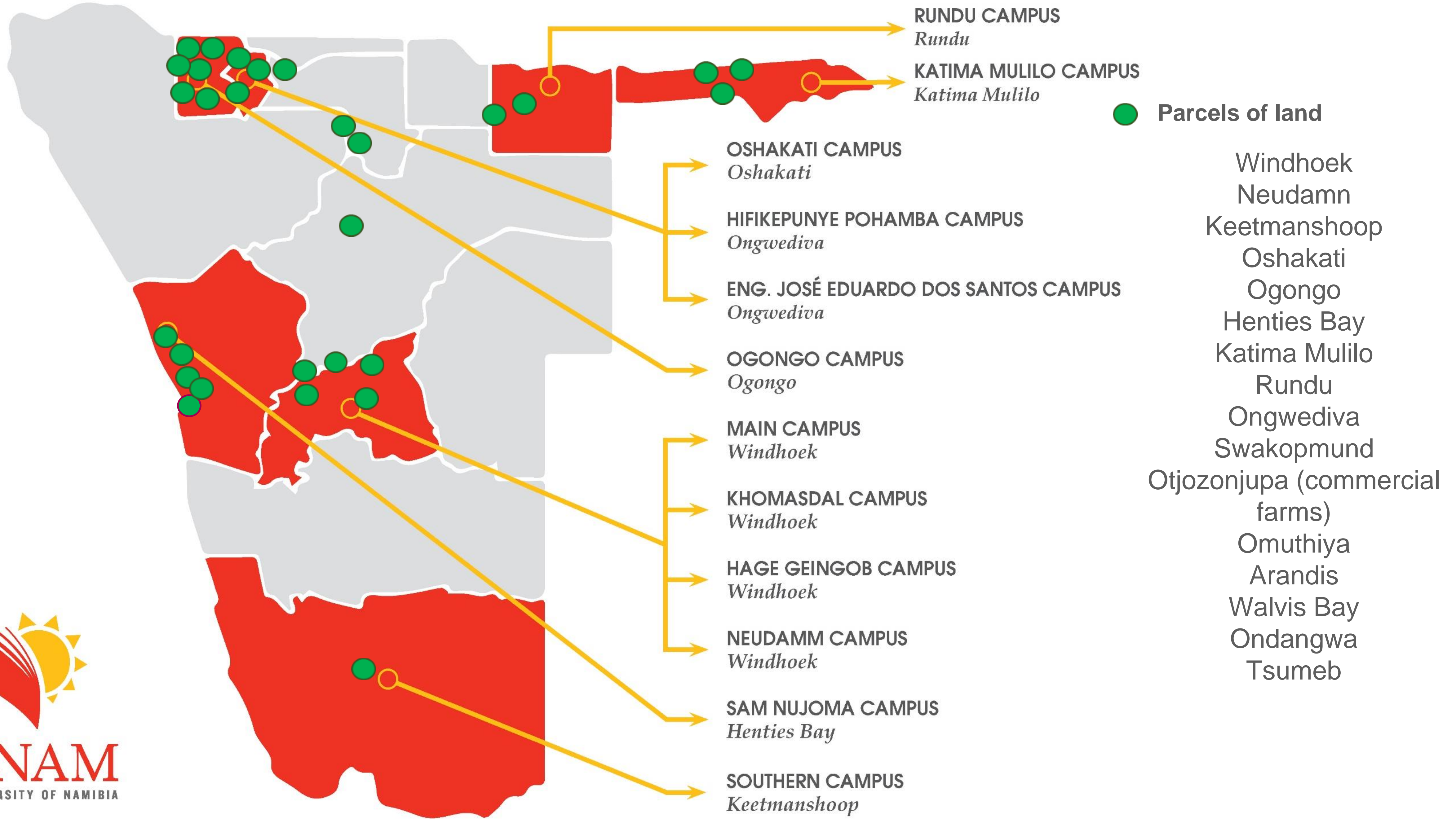
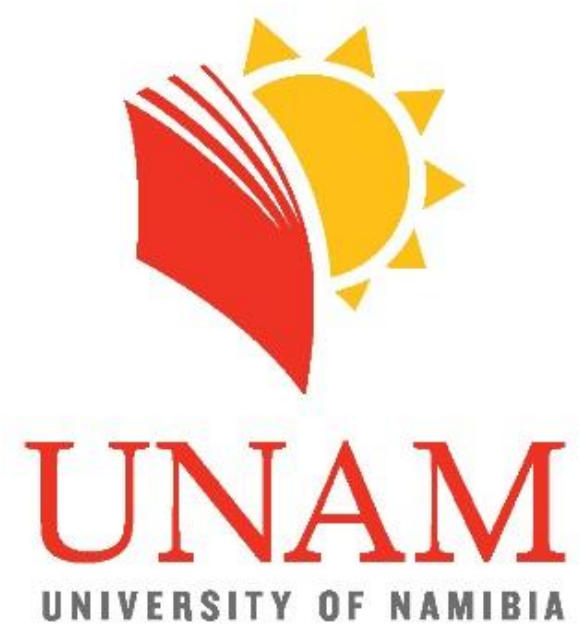
Collaboration with government and private sector partners, International academic and research institutes, identified as key for success

UNAM's strengths to support NHRI and Green Hydrogen



- Climate Change Mitigation and Adaptation as strategic goal
- Successful pilots in desalination and renewable energy (wind, solar and biomass)
- Already 70+ researchers across UNAM working in Green Hydrogen related research areas
- Curriculum Review and Transformation of selected programmes (with partners)
- Lab certification and accreditation exercise. / Lab infrastructure
- An entrepreneurship and innovation incubation centre
- Full-time researchers in two research/scientific centers to support NGHRI
- Campuses and land country-wide
- Track record of multiple commissioned research projects conducted successfully
- Large agriculture footprint for expanding green schemes and offtake of fertilizer
- Host to the world's largest gamma-ray telescope system (HESS) and acquiring another telescope
- Will commence with three GH2 pilot projects with partners under JCol
- Commenced with hosting exchange researchers and students in Green Hydrogen

Our 12 Campuses





BRINE Outlet

SEAWATER

Desalination and water bottling pilot



Images credit: UNAM Sam Nujoma Campus Henties Bay

Desalination excess water – desert agriculture and hydroponics





3.5 kW per turbine, total rated power = 10.5 kW.
5 community technicians trained on operation & maintenance of the wind power plant

Key Insights

Pilots - show impact

Regulatory Sandboxes

Skills and Research Needs

Research Chairships and Scholarships

Need specialist skills for training of trainers

A critical mass of people trained – replicators

Green Hydrogen needs different layers of skilled personnel

Capacity building also for entrepreneurs and unemployed youth

Coordination and collaboration for skills development is a prerequisite!

Thank you to our Sponsors



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