

# Promoting a GREEN HYDROGEN ECONOMY in South Africa (H<sub>2</sub>.SA)

- June 2023

# GIZ – Who are we?

Our **vision** is to create a **future worth living** around the world.








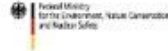



We are a 100% government-owned non-profit company, supporting the German Government in reaching sustainability goals and implementation of international agreements (e.g. Paris Agreement)

We work project-based, mainly for the German Ministry for Economic Cooperation and Development and for the Ministry for the Environment, but also for the EU and other governmental partners.

We are working with our partners **on more than 1,600 ongoing projects** in about **120 countries**.

# GLZ's energy cluster comprises two GH projects

Green hydrogen projects: H2.SA and PtX Hub South Africa are sister projects and work very closely together. While the PtX Hub has a regional focus, H2.SA is exclusively implemented in South Africa.

H2.SA	PtX Hub South Africa	Energy Partnership	SAGEN	SAGEN-CET	EFPBIP
Promoting a Green Hydrogen Economy in South Africa	Enabling Long-Term defossilisation Pathways through Power-to-X	Bilateral Energy Partnership	South African-German Energy Programme	SAGEN Capacities for the Energy Transition	Energy Efficiency in Public Buildings and Infrastructure Project
<u>Timeline &amp; Volume:</u> 08/2021 – 12/2023 EUR 12.5m  (to be extended)	<u>Timeline &amp; Volume:</u> 01/2021 – 12/2024 EUR 3m	<u>Timeline &amp; Volume:</u> Phase 3: 01/2019 – 12/2022 EUR 2m	<u>Timeline &amp; Volume:</u> Phase 4: 01/2022 – 12/2024 EUR 13.5m (incl. EUR 1m from SECO)	<u>Timeline &amp; Volume:</u> 10/2019 – 12/2023 EUR 9.5m	<u>Timeline &amp; Volume:</u> 04/2018 – 05/2024 EUR 20m
<u>Funded by:</u>  Federal Ministry for Economic Cooperation and Development	<u>Funded by:</u> <small>Supported by:</small>  Federal Ministry for Economic Affairs and Climate Action  <b>IKI</b> INTERNATIONAL CLIMATE INITIATIVE <small>on the basis of a decision by the German Bundestag</small>	<u>Funded by:</u>  Federal Ministry for Economic Affairs and Climate Action	<u>Funded by:</u>  Federal Ministry for Economic Cooperation and Development	<u>Funded by:</u>  Federal Ministry for Economic Cooperation and Development	<u>Funded by:</u>  <small>Supported by:</small>  Federal Ministry for the Environment, Nature Conservation and Nuclear Safety  Department for Business, Energy & Industrial Strategy  Danish Ministry of Climate, Energy and Utilities 
GLZ's green hydrogen projects in South Africa					

# H2.SA project overview

Our mission: Working closely with our partners from government, private sector, and civil society, we aim to promote a green and sustainable hydrogen economy in South Africa.

## Project title:

Promoting a Green Hydrogen Economy in South Africa (H2.SA)

## Duration:

08/2021 – 12/2025\*

## Budget:

EUR 15.5 million\*

## On behalf of:

Federal Ministry of Economic Cooperation and Development (BMZ)

## H2.SA provides technical assistance within four main workstreams

### Strategy, Policy & Regulatory Framework

We support the SA Government in strategy development and setting up the right regulatory framework

### Private Sector Cooperation

Closely work with private sector stakeholders to assist them in bringing their projects to market

### Capacity Building, Research & Development

We build capacities for a future GH2 economy and support SA's R&D networks

### Sustainability & Just Transition

We build stakeholders' knowledge of potential benefits and impacts for a sustainable GH2 economy



*\*change offer in preparation; subject to official approval from BMWK/BMZ*

# Electrolyser and fuel cell market overview

## Objectives and next steps



1. Global market snapshot – to be updated
2. Assist in narrowing down selection
3. Lesson learnt: Need for standardisation
4. Better understand interface with project developers
5. Localisation: barriers / incentives / cooperation



# THANKYOU VERY MUCH!



**Thomas Schneider**  
Head of Project, H2 SA



**Marlett Balmer**  
Component Lead,  
H2 SA



**Alexander Mahler**  
Component Lead, H2 SA  
& PtX Pathways



**Thabo Chauke**  
Advisor, H2 SA



**Elaine Cheung**  
Advisor, SAGEN-CET  
& H2 SA



**Susan Byakika**  
Advisor, H2 SA



**Thobeka Mchunu**  
Advisor, H2 SA



**Steven Hofmann**  
Advisor, H2 SA



**Hector Makgato**  
Advisor, H2 SA



**Pinky Radebe**  
Junior Advisor, H2 SA



**Marvelous Sibuyi**  
Junior Advisor,  
H2 SA