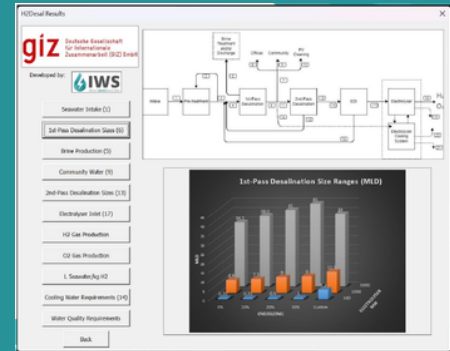
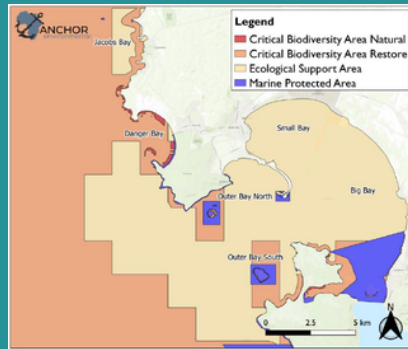




Project Details

Client:	Deutsche Gesellschaft für Internationale Zusammenarbeit (GmbH)
Project Type:	Feasibility Study
Initiated:	Oct 2022
Completed:	Aug 2023
Project Value:	ZAR 3.4 m

Project Description

Within the framework of the German National Hydrogen Strategy, the South African-German Cooperation has launched several initiatives to support green hydrogen and Power-to-X (PtX) development in South Africa. A key component of the H2.SA project is supporting private companies involved in building the country's hydrogen economy. As many proposed projects are located in arid regions, securing reliable water supply is a major challenge. For coastal projects, seawater desalination using reverse osmosis presents a viable solution.

This study provides essential background and practical guidance on the economic, technical, legal, environmental, and social suitability of desalination as a water source for green hydrogen projects. It aims to deliver strategic insights for four coastal locations, develop decision-support tools and blueprints applicable to similar sites, and conduct preliminary analyses for the four locations, including an ESIA scoping assessment for one selected site.

Project Impact

**Assessing Sustainable
Water Infrastructure**

Innovative Online Tool

**Completed Environmental
Impact Scoping Report**

