



Project Details

Client:	HDF Energy
Project Type:	Feasibility Study
Initiated:	April 2021
Completed:	Est. Q4 2023
Project Value:	ZAR 280 000

Project Description

Solar Powered Desalination (with option for Hybrid Grid Connected vs Solar Only) for the proposed Renewable Pilot Green Hydrogen energy power plant (Power-Power) in Swakopmund. The intention is to provide HDF Energy with a sustainable source of high-quality water for their Pilot project while reducing CO2 emissions and producing the lowest carbon footprint water available. Desalinated water will need to be pumped from the coast approximately 7km to the site, and specialist secondary 'ultra-purification' is required on site before production of Green Hydrogen. IWS has provided the following proposals:

- Water Supply Scheme Scenarios with associated risks and permitting recommendations.
- Identification of potential Geographic Location for the project in relation to HDFs development
- Initial Solar Powered Reverse Osmosis engineering design and associated cost estimates.
- OSMOSUN[®] technology that can produce circa. 73,000m³ per annum from a containerised system.

Project Impact

200 m³/d
Water Produce

19 tCO₂e per year
Estimated to Avoid

