





WELCOME TO

- 1st South African Special Economic Zone to include a port.
- Building and operating a marine and energy services and engineering centre.
- Strategically located within the **deep-water port** of Saldanha Bay.
- Easy **access to logistics** by sea, land, rail, and air access.
- Situated on the West Coast, 60 nautical miles north-west of Cape Town









Special Economic Zone

Provincial Owned Entity

Our mandate is to stimulate investment, industrial growth, job creation, skills development and regional competitiveness

Marine Sector

Activities includes

- Marine services hub
- Boat building & repair
- Vessel decommissioning
- Offshore supply base



PHOTOGRAPH 20. SOUTHERN PRECINCT CHARACTER

Energy Sector

Activities includes

- Bulk fuels storage
- Manufacturing hub
- Services hub
- Integrated logistics facility



PHOTOGRAPH 19. NORTHERN PRECINCT CHARACTER

GH2 Opportunity



Saldanha Bay well positioned as a hub for green hydrogen and low-carbon industry



Significant Feasible Land

Within West Coast District:

11.5k km2 of feasible wind land

21k km2 of feasible solar land



Strong RE Load Factors

Within feasible land in West Coast District:

Average wind load factor of ~40% and average solar load factor of ~21%



Special Economic Zone

Freeport Saldanha Industrial Development Zone, a freeport duty free area with streamlined investor procedures



Existing Port and Rail Lines

Positioned to serve domestic and global demand w. deep water port (23m draught), rail, and road infrastructure



Access to Skilled Workforce

~2h from CPT International Airport

100k population within Saldanha Bay Municipality

Copyright ©, 2021, Sasol Source: BCG analysis

1ST WESTERN CAPE GH2 CLUSTER



Activity/Entity	Saldanha Bay
Transnet: bunker fuel	504 kt/y
Transnet: port equipment	unknown
ACSA ground vehicles	0.0558 kt/y
PRASA MetroRail	6.6-11.0 kt/y
AMSA Saldanha Works	104 kt/y
MyCiti BRT	1.2 kt/y

Source: EU-SA Partner for Growth. Jan 2022. Powerfuels 2: Stimulating domestic hydrogen consumption opportunities in South Africa

- Potential local inland demand consumption.
- Potential "at borders" refueling demand -Bulk carriers account for ~77% of ships (1).
- · No pipeline delivered bunkers are available.
- One of the largest ore exporting, deep water, ports in Africa, supported by a dedicated rail link which connects to Sishen & Kolomela Mines in the Northern Cape, and the Freeport Saldanha SEZ.
- Saldanha Bay Municipality holds an EA for a 25Ml Seawater Reserve Osmosis Desalination Plant; range ~10km from Port.
- · High RE potential from solar & offshore wind.
- CSIR study concluded H2 exports could be cost competitive at US \$3/kg before 2030.*
- Potential off-takers incl AMSA, MyCity Bus, port equipment & ground vehicles.**

GH2 Markets

Green Iron & Steel

Shipping Fuels

Mobility

Exports

Logistics Gateway

Manufacturing Hub



Green Shipping Initiatives

South Africa as a Green Shipping destination

Lead: Global Maritime Forum

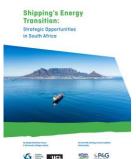
Initiated by: P4G Getting to Zero Coalition Partnership

Participants: Private & Public sector

Dates of study: 2021, 2022

Scope: Strategic Oppns in South Africa

Progress: Final reports can be accessed here:





Green Bunker Fuels

Lead: World Bank

Initiated by: Presidential Climate Commission

Consultants: PRDW, MTBS, CSIR

Dates of study: Nov '22 - Jun '23

Next milestone: Tech Workshop 3 May

Scope: Saldanha as green bunkers location

Progress: Prelim technical report ready 3 May



Maritime Decarbonisation Workgroup (Taskforce 6)

Lead: CSIR

Initiated by: Dept of Transport

Participants: FS, TNPA, CSIR etc.

Inception: July 2022

Scope: Taskforce group focused on Maritime Decarbonization through Renewable Energy workstream. It forms part of the Maritime Industry Transport Development Task Force Network.



URL #2022 URL #2021

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Green Shipping Initiatives

Green Shipping Corridor Consortium

Lead: Global Maritime Forum

Initiated by: Industry

Partners: Anglo American, Tata Steel, CMB, VUKA Marine, Freeport Saldanha and ENGIE

Inception: Nov '22

Progress: Launch Consortium March '23

Next milestone: Developing TOR of study

Scope: Explore the options for developing a maritime green corridor for the zero-emission shipping of iron-ore between South Africa and Europe.

Home > Clean fuel 3

Maritime, mining, and energy majors to create a green corridor for iron ore

TRANSITION

March 22, 2023, by Jasmina Ovcina Mandra

A new consortium comprising UK-based mining company Anglo American, Tata Steel, CMB, VUKA Marine, Freeport Saldanha, and ENGIE plans to explore the options for developing a maritime green corridor for the zero-emission shipping of iron ore between South Africa and Europe.

Clean Tech Marine Incubation

Lead: Energy Investment Village (EIV)

Initiated by: Saldanha Innovation Campus

Inception: 2022

Next milestone: EIV 2023, Apps close May 23

Cohort of 2022:

- SeaH4 Biofuels from farmed algae
- ImpactFreeWater wave energy technology
- Oceanergy Kite Hydrogen Ships



Green Voyage 2050 Project

Lead: DOT, SAMSA

Initiated by: IMO & Government of Norway

Participants: Public & Private Sector

Inception: January 2023

Next milestone: Identifying South African

Pilot Projects

Scope: Transform the shipping industry

towards a lower carbon future



Risks of the Green Hydrogen Sector



- SA factors:
 - Energy Crisis: How can GH2 markets complement SA's energy crisis?
 - Competitiveness: Can SA produce internationally costcompetitive GH2?
 - Urgency: How can SA respond with urgency & produce as an early mover?
 - Policy & Fiscal Support: Will the SEZ incentives (or other) extend to GH2 production?
 - Co-location: RE & GH2 production vs co-location of GH2 production & export infrastructure? How many GH2 activities can fit safely within the SEZ? Where to locate which one first? This may require extension of SEZ boundaries.
 - Inclusiveness: Justice and inclusion in the GH2 value chain? How can we make sure that citizens' livelihoods and wellbeing is safeguarded and improved?
 - Infrastructure: Does the Port's plans allow for GH2 activities? Mechanism? Timing? How do we plan for common-user/shared infrastructure between pilot and mega-scale projects? And with SBM?

- Global factors:
 - Off Take Guarantees & Financing: Who is going to set the 1st mover off take price & risk? How?
 - Standardisation: Electricity grids are not 100% green.
 Does the zone and ports need to be 100% green? Leeway for global south countries?
 - Inclusiveness: Justice and inclusion in the GH2 value chain?
 - Sustainability: Design circularity from get-go? Trade-offs on project requirements?
 - Climate Risk: How to incorporate climate risk in spatial planning?

