



ECC
ENVIRONMENTAL
COMPLIANCE CONSULTANCY

AMMONIA TERMINAL, AMMONIA PIPELINE AND HYDROGEN PIPELINE

ESIA PROCESS
SCOPING PHASE

12, 13 & 14 March 2024



Welcome



Agenda

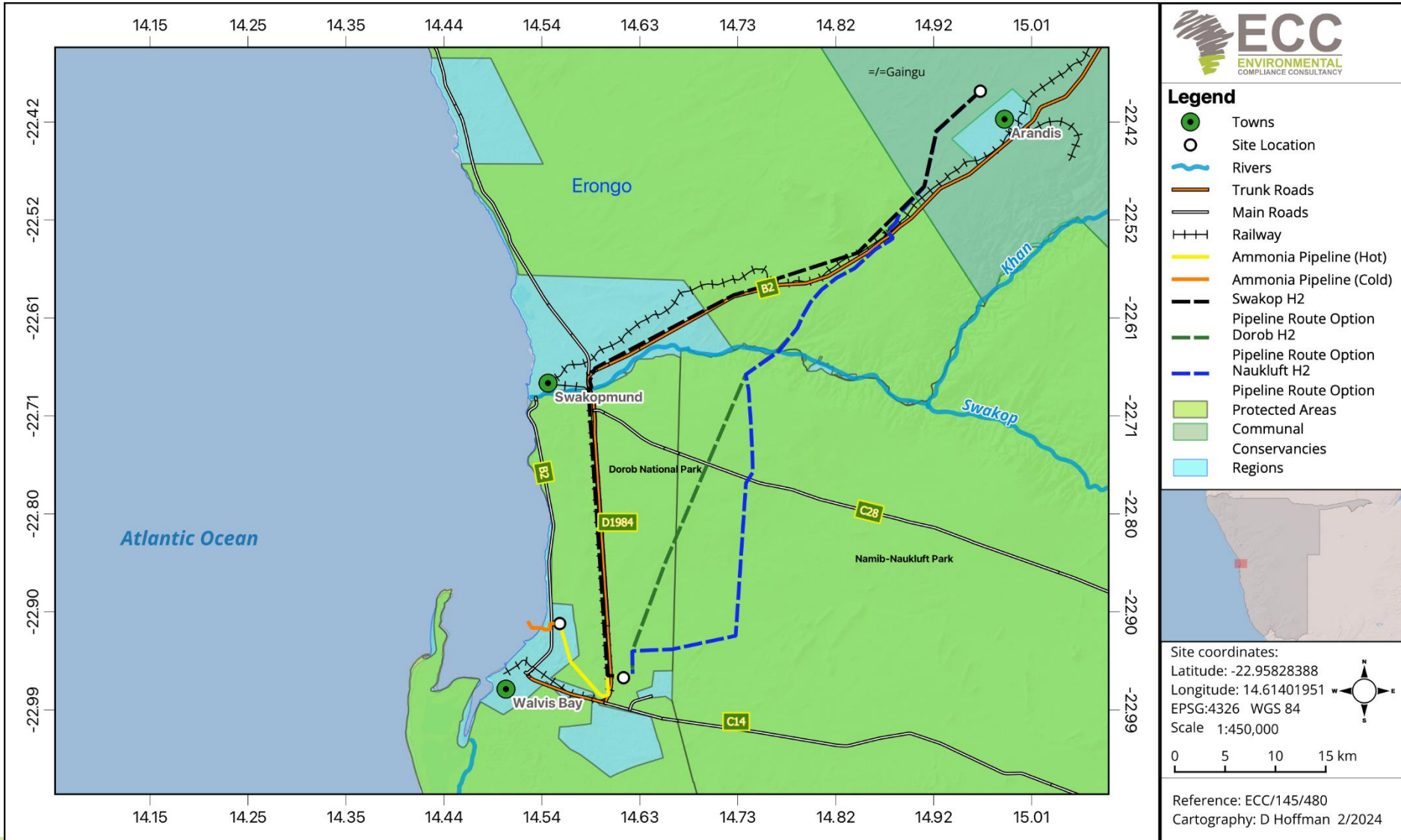


- Public meeting objectives
- Project Presentation — *Presented by Cleanergy Solutions Namibia*
- Environmental & Social Impact Assessment (ESIA) —
Presented by ECC
- Baseline Studies
- Potential biophysical & Socio-economic impacts —
Presented by ECC

Public meeting objectives

- Inform the public and provide information detailing the proposed ammonia terminal, ammonia pipeline and hydrogen pipeline projects
- Provide an overview of the environmental and social impact assessment process
- **Take into consideration public concerns, questions and/or comments and incorporate this into the assessment process**

Locality Map



Project Presentation

- To be inserted by Cleanergy Solutions Namibia (Pty) Ltd

Environmental Practitioners and Their Role

- ECC (Environmental Compliance Consultancy Pty Ltd)
- Independent and unbiased perspective
- Evidence and risk-based approach
- Leverage Namibian public local knowledge and experience
- Active participation throughout ESIA process



ESIA Process

- **Screening (DEA PORTAL):**
 - Utilize DEA PORTAL for initial screening process.
- **Scoping (Current Phase):**
 - Define the scope of the project during the current phase.
- **Assessment Phase:**
 - Conduct a comprehensive assessment of the project.
- **Impact Prediction and Evaluation of Alternatives:**
 - Predict and evaluate potential impacts.
 - Explore and assess alternative approaches.
- **Assigning Mitigation Measures:**
 - Identify and assign appropriate mitigation measures.
- **Developing Monitoring and Conceptual Rehabilitation Plans:**
 - Devise plans for ongoing monitoring.
 - Outline conceptual rehabilitation strategies.
- **ESIA Report and Draft Environmental Management Plan (EMP):**
 - Culminate the phase by drafting the ESIA report.
 - Develop a draft Environmental Management Plan (EMP).
- **Submission to Competent Authorities:**
 - Submit the ESIA report and EMP to relevant competent authorities.

ESIA Process – Project Registration DEA:MEFT

- Screening (DEA PORTAL):
 - Ammonia terminal: APP – 002566
 - Ammonia pipeline: APP – 002567
 - Hydrogen pipeline: APP - 002568

ESIA Screening Process

ACTIVITIES THAT TRIGGERED A CLEARANCE CERTIFICATE APPLICATION	EIA SCREENING FINDING
ENERGY GENERATION, TRANSMISSION AND STORAGE ACTIVITIES	<ul style="list-style-type: none"> • An emergency diesel generator may be included in the project.
WASTE MANAGEMENT, TREATMENT, HANDLING AND DISPOSAL ACTIVITIES	<ul style="list-style-type: none"> • All household or non-hazardous waste will be disposed of at the local landfill site and the hazardous waste will be disposed at the disposal site in Walvis Bay.
WATER RESOURCE DEVELOPMENT	<ul style="list-style-type: none"> • All the effluents generated by the ammonia terminal facilities are handled by the wastewater system/unit. • Wastewater permit will be obtained.
HAZARDOUS SUBSTANCE TREATMENT, HANDLING AND STORAGE	<ul style="list-style-type: none"> • Liquid ammonia will be stored in an ammonia storage tank with a size of 40 000 tons of capacity. • The ammonia pipeline will transport approximately 800 metric tons of green ammonia per day to the ammonia terminal. • The hydrogen pipeline will store up to 15 000 Nm³ of hydrogen which will be transported to the ammonia production plant daily.
INFRASTRUCTURE	<ul style="list-style-type: none"> • The 12.7 km ammonia pipeline will be constructed between Farm 58 and Walvis Bay port area. • The 80 km hydrogen pipeline will be constructed between Arandis and Farm 58.

Public Participation



- Notification of the project – newspapers, site notice boards & stakeholder letters in alignment with the EMA No. 7 of 2007
- The Background Information Document (BID) provided I&APs with the opportunity to take part in the public participation process.
- Direct consultation and focus group meetings with required stakeholders
- This presentation extracts information from the BID to describe the project to those attending the meeting.

Baseline Studies to be commissioned



BASELINE STUDIES	SPECIALIST
A baseline fauna and flora	Peter Cunningham
A dune morphology study	Peter Cunningham
Detailed groundwater and surface water	ECC (Luke Towers)
A noise baseline study	AirShed
An air quality baseline study	AirShed
A heritage baseline study	Alma Nankela
An updated high level socio-economic baseline study will be conducted	ECC (Stephan Bezuidenhout)
Traffic study	Innovative Transport Solutions
Visual baseline study	ECC (Johan Le Roux)
Technical feasibility and safety	CMB. TECH

Potential Impacts to be assessed

- Potential impacts that can arise from the proposed project include but are not limited to:
 - Noise impacts
 - Visual impacts
 - Landscape impacts
 - Dune morphology impacts
 - Linear infrastructure
 - Water resource impacts
 - Impact on archaeological and cultural features
 - Biodiversity Impacts
 - Increased traffic volumes off-site
 - Job creation (permanent / temporary)
 - Economic growth & emission reduction
 - Safety considerations for existing infrastructure and residents
 - Innovation & technology transfer



ESIA & ESMP



Integration of Stakeholder and Specialist Input:

- Incorporate input from all stakeholders and specialists.
- Ensure comprehensive integration for effective outcomes.

Inclusion of Recommended Mitigations:

- Ensure that all recommended mitigations are included.
- Guarantee thorough incorporation for holistic management.

PLEASE REMEMBER TO REGISTER AS AN INTERESTED OR AFFECTED PARTY

- HOW?
- Via the ECC website, under projects
- Via telephone or WhatsApp +264 81 669 7608
- Speak to me after the meeting

Questions / Discussion ?



Thank You For Your Time!



Contact Us:
Tel: +264 81 669 7608
info@eccenvironmental.com

