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Development of a Strategic Environmental Assessment for the Identification of Energy Corridors, as well as Assessment and Management of a Gas Pipeline Network for South Africa

Expert Reference Group Meeting 1

13 September 2017

SANBI

Biodiversity for Life

South African National Biodiversity Institute



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our future through science

Meeting Outline

- SEA Project Team
- Key objectives of the SEA Process
- Scope of Work
- Methodology
- Consultation Process
- Timeline and Deliverables
- Way Forward



SEA Project Team

Project Coordinator: DEA

Dee Fischer
Project Coordinator

Simon Moganetsi
Project Manager

Project Partners

DoE

DPE
iGas, Transnet, Eskom

Environmental Consultants: CSIR

Paul Lochner
Project Advisor

Annick Walsdorff
Project Leader

Rohaida Abed
Project Manager

Samukele Ngema
Project Intern

Joint Service Provider: South African National Biodiversity Institute

Jeffrey Manuel
Director Biodiversity
Information and Planning

Fahiema Daniels
Deputy Director: Biodiversity
Planning

Tsamaelo Malebu
GIS specialist

Environmental Authorisation Status Quo

EIA process in current form hampers the efficient and effective development of gas transmission pipelines network. Locks routing options to an approved route

1. Higher costs of land (servitudes)

- ☐ Negotiations with landowners limited due to pre-determined routes

2. EIA does not facilitate strategic planning

- ☐ EIA is project specific in nature – linked to phases of the pipeline network
- ☐ Limited validity of EIA authorisation

3. Output of EIA is inflexible

- ☐ Limits possibility to add more users identified after the EA;
- ☐ High probability of amendments to route (e.g. additional users, changes in supply and demand)

4. No assessment of cumulative impacts of entire network

- ☐ EIA- sections of line, not national picture

5. Multitude of additional authorisations and permits needed from competent authorities

- ☐ Decision making by authorities often undertaken in isolation.

Aim of SEA: Identify 100 km wide routing corridors for the construction of an efficient Phased Gas Pipeline Network and for the expansion of the gazetted electricity grid infrastructure

- **Effective**
 - Identify strategic corridors for gas pipelines network and electrical grid expansion
 - Secure long term energy zones and corridors (against incompatible land uses and activities).
- **Efficient**
 - Streamline the authorisation process (determine environmental sensitivities).
 - Enable developers greater flexibility when undertaking land negotiation.
 - Promote collaborative governance between authorising authorities.
- **Responsible**
 - Develop a site specific development protocol, norm or standards and EMPr.
 - Sharing of project information.
 - Contribute to skills development.

Overview of SEA Process

Key Stakeholders Consultation
ERG, PSC, Sector Specific Meetings

Public outreach 1

Public outreach 2

PHASE 2

PHASE 3

Decision-support
outputs and
Gazetting

2018

SEA Outputs

Final
Corridors

Final Corridor
Environmental
Constraints
Map

Protocols,
Standards and
Norms

Task IV

(Environmental Assessment)
Oct 2017 – March 2018

Specialist
Studies

Review and
Final corridor
alignments

Task III

(Corridor Refinement)
Nov 2017

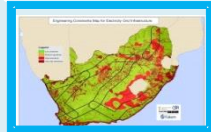
Preliminary
Corridors

Preliminary
Corridor
Environmental
Constraints

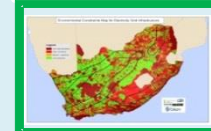
Task II

(Negative Mapping)
Sept-Oct 2017

W2W
Engineering
Constraints Map



W2W
Environmental
Constraints
Map



Task I
Initial Corridors
(Starting Point)

June 2017

Initial
Corridors

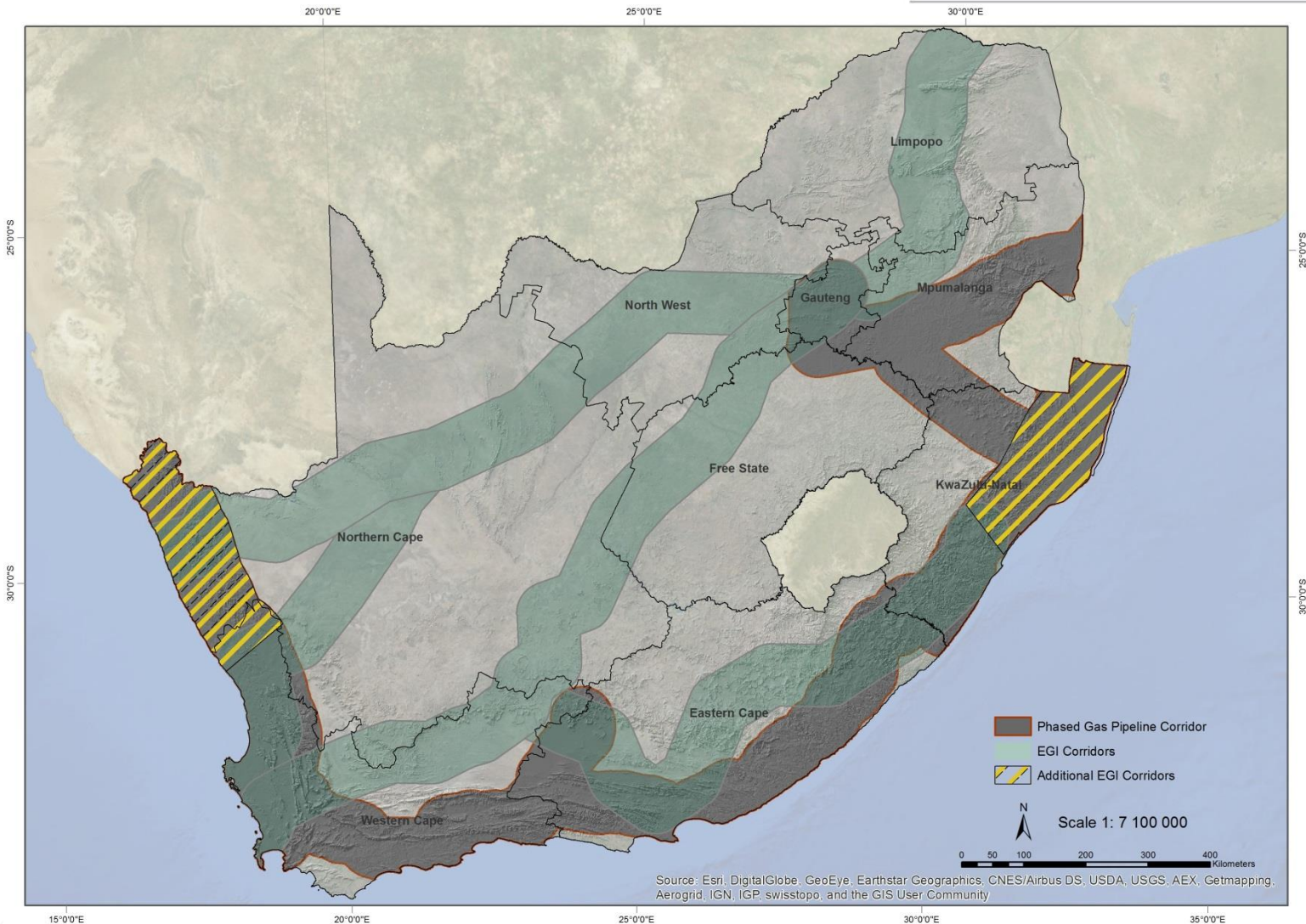


We are here

PHASE 1: Inception

Skills Development

Draft Initial Corridors



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Date of release:
13 September 2017

Consultation Process

- Comprehensive consultation process will be undertaken throughout the duration of the project
 - Expert Reference Group meetings
 - Project Steering Committee meetings
 - Sector Specific meetings (e.g. Ports, COGTA, BUSA, Energy Intensive users, Chamber of Mines, DTI, SAHRA, Defence, Organs of State etc.)
- Consultation will also be accomplished through focus group meetings, public meetings as well as an online consultation process
 - Online project website continuously updated and accessible during the duration of the SEA
- Gazetting of Gas/updated EGI corridors, Norms and Standards and protocols

Deliverables

Timeframes

- 18 months project
- Corridors identified, assessed , draft supporting documentation completed and legal implementation process agreed by mid of 2018
- Submitted for Cabinet approval thereafter and gazetted subsequently

Main Deliverables

- The SEA approach, methodology and findings will be written up
- Corridor specific development protocols, norms, standards will be drafted
- Final outputs of SEA presented to cabinet

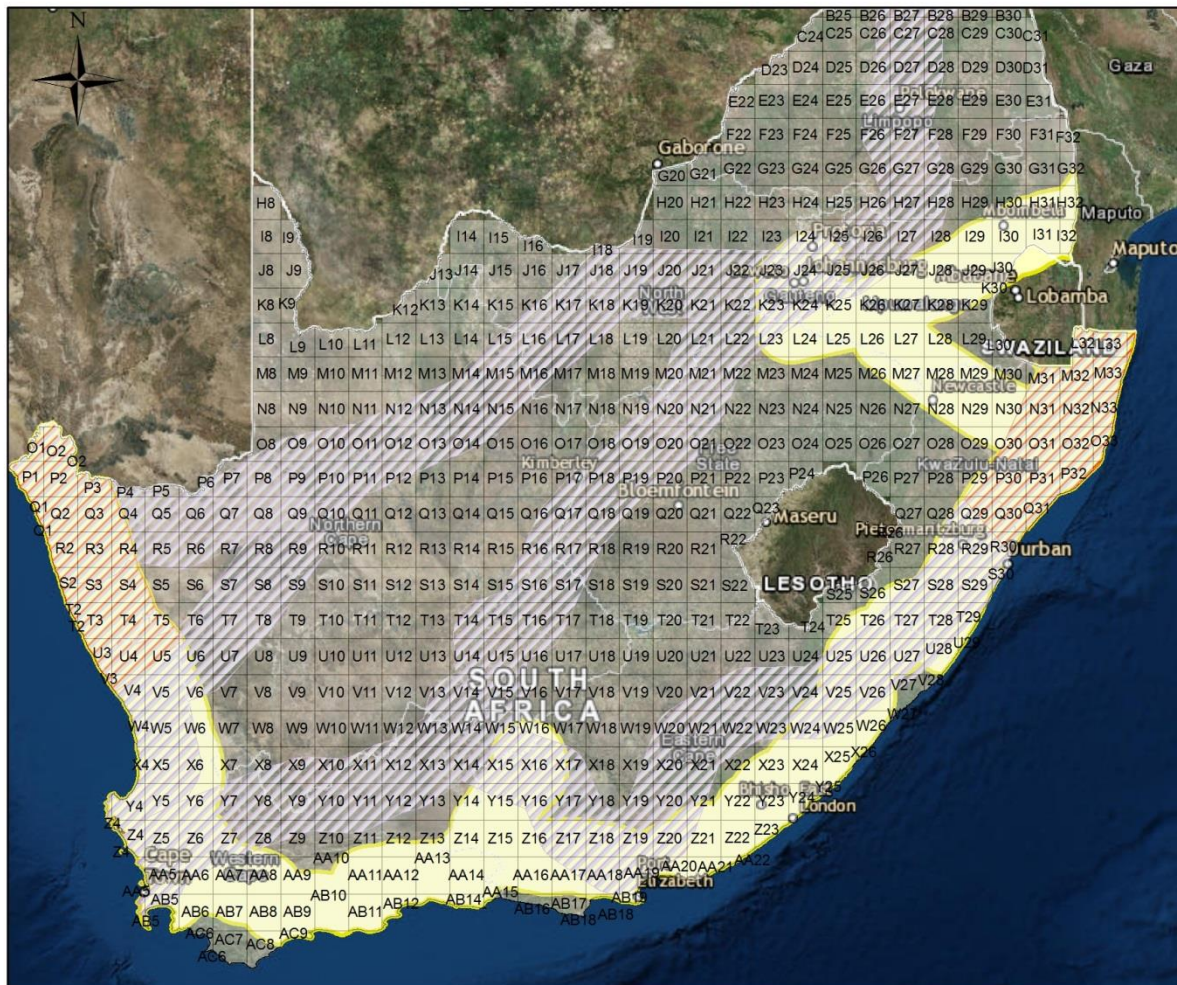
Way Forward

- **Planned Consultations**

- Series of sector specific meetings.
- Assistance from and reliance on Provinces and District Municipalities to engage with Local Government (public meetings).
- Public meetings and Focus Group meetings (District Municipalities) in four strategic areas (i.e. Johannesburg, Port Elizabeth, Cape Town and Durban).
- Focus group meetings to ensure that corridors are embedded in all the spatial planning of the municipal areas and other national plans; PICC, MUNIMEC, IRP/IEP, etc.
- Online consultation (Grid cells) to identify planned development and incompatible land uses

Online Consultation

National Strategic Environmental Assessment for a Gas network in South Africa



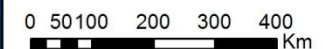
Legend

- Gas_corridors
- EGI_Corridors
- Grid Cells



Map Resolution

1:8 700 000



Date of Release:
08 September 2017

Way Forward


- ERG members are invited to provide inputs on:
 - Additional strategic issues for consideration;
 - References and citations to be used in specialist assessments;
 - Criteria/data to be used for the Technical and Environmental Considerations;
 - Incompatibility uses to secure corridors from conflicting land uses;
 - ✓ National long term planning: e.g. National Planning Commission, Spatial Planning and Integrated Resource Plan (IRP), Integrated Energy Plan (IEP), Economic Development Spaces.
 - ✓ Short term spatial planning: e.g. Town planning, IDZ input and local governments.
 - Ensure corridors fit into national and local planning;
 - Socio-economic considerations; and
 - SEA process methodology and consultation.

Project Website


Project Email Address:
gasnetwork@csir.co.za

Project Website:
https://gasnetwork.csir.co.za/

Strategic Environmental Assessment for the Development of a Gas Pipeline Network for South Africa



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[The Need for an SEA Objectives](#)

Welcome to the official website for the Strategic Environmental Assessment (SEA) for the development of a Gas pipeline network for South Africa.

The website provides the general public with the opportunity to register as stakeholders; conveys the latest information and outputs of the assessment process for review and comments; and describes the opportunities for how stakeholders can engage further in the assessment over the 18 month SEA process.

The Need for an SEA

In 2012, Cabinet adopted the National Development Plan (NDP), which provided South Africa's plan to accelerate infrastructure development in order to address service delivery backlogs and facilitate economic growth and job creation. Operation Phakisa is a fast results delivery programme that was launched in July 2014 to help implement the NDP. This is a unique initiative of the South African government to address key issues such as poverty,

SEARCH

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Thank you