



ENVIRONMENTAL IMPACT
ASSESSMENT PROCESS

GAROB WIND ENERGY FACILITY
PROJECT AND THE
PROPOSED GAROB TO KRONOS
POWER LINE

NORTHERN CAPE PROVINCE

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PUBLIC PARTICIPATION PROCESS

**NOTES OF FOCUS GROUP MEETING HELD
WITH THE SIYATHEMBA LOCAL
MUNICIPALITY**

Held on
Wednesday, 06 December 2012 at 10:00
Siyathemba Local Municipality, Victoria Street,
Prieska

Notes for the Record prepared by:

Savannah Environmental

Please address any comments to Gabi Wood at the above address.

FOCUS GROUP MEETING:

GAROB WIND ENERGY FACILITY PROJECT AND THE GAROB TO KRONOS POWER LINE

Venue: Siyathemba Local Municipality, Victoria Street, Prieska
Date: 06 November 2012
Time: 10:00

WELCOME AND INTRODUCTION

Mr Shawn Johnston of Sustainable Futures ZA welcomed all in attendance and introduced himself as the process facilitator for the Garob Wind Energy Facility Project. He noted that the project is being proposed by juwi Renewable Energies and that Savannah Environmental has been appointed as the independent environmental consultancy to undertake the Environmental Impact Assessment (EIA) for the project.

Mr Johnston thanked Mr Johann Badehorst of the Siyathemba Local Municipality for the opportunity to brief him about the proposed projects. He noted that the purpose of the meeting was to present the findings of the Draft EIA Report for the Garob Wind Energy Facility as well as the proposed Garob to Kronos power line (which is being assessed as a separate Basic Assessment process) and to obtain comments on the report and project in general.

MEETING ATTENDEES

Name	Organisation & Position
Mr Chris Bellingham (CB)	juwi Renewable Energies, Project Manager
Mr Mark van Niekerk (MvN)	juwi Renewable Energies, Project Manager
Mr Shawn Johnston (SJ)	Sustainable Futures ZA, Process Facilitator
Mr Bongani Khupe (BK)	Savannah Environmental, Environmental Assessment Practitioner
Mr Johann Badehorst (JB)	Technical Manager, Siyathemba Local Municipality

APOLOGIES

No apologies were received.

BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECT

Bongani Khupe presented the background of the project and the findings of the Draft EIA Report.

DISCUSSION SESSION

No	Question / Comment	Response
1.	<i>JB:</i> We have received a number of applications for proposed renewable energy facilities with regard to rezoning and we support renewable energy projects.	<i>Comment noted</i>
2.	<i>JB:</i> For wind and solar farms the farms are rezoned from agricultural to special zone	<i>Comment noted</i>
3.	<i>JB:</i> You can submit your rezoning application with a draft EIA report and as soon as you get confirmation that you have submitted your report to DEA send us the confirmation so that the process can start.	<i>Comment noted</i>
4.	<i>CB:</i> Do you know what the plans are for the power line	<i>JB:</i> Mr J Basson the LED and IDP Manager is currently engaging with the Department of Energy and Eskom in terms of the planning of the lines.
5.	<i>JB:</i> We don't usually make comments on the EIA reports as we believe the EIA consultants are professional companies and DEA would not issue an Environmental Authorisation if it is not satisfied with the information on the reports.	<i>Comment noted</i>
6.	<i>MvN:</i> Do you also approve building plans?	<i>JB:</i> yes we do
7.	<i>JB:</i> In general we support renewable energy developments.	<i>Comments noted</i>
8.	<i>CB:</i> What batching plant options are available in the area?	<i>JB:</i> There is no plant in Prieska but there is one in Kimberley and Upington. For the concrete that we make we get our stone aggregate from De Aar. There is however a number of quarries around Prieska.

WAY FORWARD AND CLOSURE

Mr Johnston thanked everyone for attending the meeting and for their inputs.

The meeting ended at 11:00.



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PUBLIC PARTICIPATION PROCESS

**NOTES OF PUBLIC MEETING HELD AT THE
NELSPOORTJIE KAROO GUEST FARM**

Held on
Wednesday, 05 December 2012 at 16:00
Nelspoortjie Karoo Guest Farm near

Notes for the Record prepared by:

Savannah Environmental

Please address any comments to Gabi Wood at the above address.

PUBLIC MEETING:

GAROB WIND ENERGY FACILITY PROJECT AND THE GAROB TO KRONOS POWER LINE

Venue: Nelspoortjie Karoo Guest Farm near Copperton, Northern Cape
Date: 06 November 2012
Time: 16:00

WELCOME AND INTRODUCTION

Mr Shawn Johnston of Sustainable Futures ZA welcomed all in attendance and introduced himself as the process facilitator for the Garob Wind Energy Facility Project. He noted that the project is being proposed by juwi Renewable Energies and that Savannah Environmental has been appointed as the independent environmental consultancy to undertake the Environmental Impact Assessment (EIA) for the project.

He noted that the purpose of the meeting was to present the findings of the Draft EIA Report for the Garob Wind Energy Facility as well as the proposed Garob to Kronos power line (which is being assessed as a separate Basic Assessment process) and to obtain comments on the report and project in general.

MEETING ATTENDEES

Name	Organisation & Position
Mr Chris Bellingham (CB)	juwi Renewable Energies, Project Manager
Mr Mark van Niekerk (MvN)	juwi Renewable Energies, Project Manager
Mr Shawn Johnston (SJ)	Sustainable Futures ZA, Process Facilitator
Mr Bongani Khupe (BK)	Savannah Environmental, Environmental Assessment Practitioner
Mrs Wilhette Fourie (WF)	Landowner
Mr BP Fourie (PF)	Landowner

APOLOGIES

No apologies were received.

BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECT

Bongani Khupe presented the background of the project and the findings of the Draft EIA Report.

DISCUSSION SESSION

No	Question / Comment	Response
1.	<i>PF:</i> Where will you locate the access to the facility?	<i>BK:</i> Access road is at a point approximately 500 m to 600 m north-east of the access to the existing guest farm
2.	<i>PF:</i> Where will your operational site office be located?	<i>CB:</i> No site office is proposed at this stage as the facility can be monitored remotely.
3.	<i>PF:</i> Will you have a storage area to store parts and other service equipment during operation?	<i>CB:</i> The only building proposed at this stage could be a small guard house at the entrance to the site.
8.	<i>PF:</i> Who is going to manage the employment process and the benefits to the community?	<i>CB:</i> We are currently looking at various options in terms of socio-economic development. A community trust will also be set up as per Department of Energy Requirements.

WAY FORWARD AND CLOSURE

Mr Johnston thanked everyone for attending the meeting and for their inputs.

The meeting ended at 17:00.



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Fax: 086 510 2537
E-mail: swjohnston@mweb.co.za

PUBLIC PARTICIPATION PROCESS

**NOTES OF SITE VISIT HELD WITH THE
DEPARTMENT OF WATER AFFAIRS**

Held on

Wednesday, 5 December 2012 at 10:00
on portion 5 of the farm Nelspoortje 103

Notes for the Record prepared by:

Savannah Environmental

Please address any comments to Gabi Wood at the above address.

**NOTES OF SITE VISIT:
GAROB WIND ENERGY FACILITY PROJECT**

Venue: On portion 5 of the farm Nelspoortje 103
Date: 5 December 2012
Time: 10:00

WELCOME AND INTRODUCTION

Shawn Johnston facilitated the meeting, welcomed those present, and introduced the project team.

MEETING ATTENDEES

Name	Organisation & Position
Mr Chris Bellingham (CB)	Juwi Renewable Energies, Project Manager
Mr Mark van Niekerk (MvN)	Juwi Renewable Energies, Project Manager
Mr Bongani Khupe (BK)	Savannah Environmental, Environmental Assessment Practitioner
Mr Shawn Johnston (SJ)	Sustainable Futures, Public Participation and Social Consultant
Mr Christopher Cebekhulu (CC)	Department of Water Affairs

APOLOGIES

No apologies were received.

BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECT

Bongani Khupe then gave the background to the proposed development and a site inspection was conducted.

DISCUSSION SESSION

No	Question / Comment	Response
1.	<i>CC:</i> Where will the site be accessed from?	<i>BK:</i> An access road is proposed just off the R357
2.	<i>CC:</i> Will you be using existing roads and do you have a detailed design of the roads?	<i>SJ:</i> Existing access roads will be used as far as possible and new access roads will also be constructed as per the proposed layout provided.
3.	<i>CC:</i> Do you have a detailed storm water plan in place?	<i>BK:</i> A storm water management plan has been drafted and will form part of the EMP.
4.	<i>CC:</i> Will turbines be placed in or near drainage areas.	<i>MvN:</i> No turbines will be placed in drainage lines.
5.	<i>CC:</i> Do you have exact positions where the access roads will cross the drainage lines? Both new and proposed.	<i>MvN:</i> 8 crossing have been identified at this stage as per the map provided to you and we can go to any of these crossing so that you can get an understanding of the drainage lines we will cross
6.	<i>CC:</i> Where will you get your water for the construction period?	<i>MvN:</i> Our current proposal is get our water from the Alkantpan testing range.
7.	<i>CC:</i> Are they a registered water user and do they have capacity to supply your project with water?	<i>MvN:</i> We have been informed they are a registered user and we will confirm the capacity with them.
8.	<i>MvN:</i> How best do you think we should cross the drainage lines?	<i>CC:</i> Only your technical assessments and designs can recommend the right methods of crossing. However, as the Department we will make recommendation on your proposed crossings should that be required.
9.	<p><i>CC:</i> The following information will be required for a water use licence:</p> <ul style="list-style-type: none"> » Coordinates of each of the crossings » Where water for construction be sourced from » Rezoning information » Environmental Authorisation » Lease agreement » Landowners title deed <p>However, water use licence can only be issued once you are preferred bidder and another site visit would be required at that stage.</p>	<i>BK:</i> Comment noted.
10.	<i>CC:</i> I will review the DEIA and provide you with comments.	<i>BK:</i> We will be waiting for your comments

WAY FORWARD AND CLOSURE

Bongani Khupe thanked Christopher Cebekhulu for availing himself for the meeting and for the inputs which he provided.



**Garob Wind Energy Facility Project, located
near Copperton in the Northern Cape
Province**

Public / Stakeholder Meetings

5 December 2012



SUSTAINABLE
FUTURES ZA

juwi





MEETING AGENDA

- **Welcome, Introduction & Apologies**
 - **Purpose of the meeting**
 - **Project Information**
 - **Summary findings of the draft EIA Report**
 - **Discussion**
 - **Closure & Way forward**
-



CONDUCT OF THE MEETING

- **Work through the facilitator**
 - **Language of choice**
 - **Questions to be taken during the Discussion Session**
 - **Identify yourself**
 - **Equal participation**
 - **Cellphone etiquette**
-



PURPOSE OF THE MEETING

- **Overview of the proposed project**
 - **Summary of the findings of the EIA Phase of EIA**
 - **Opportunity for I&APs to seek clarity on the proposed project and findings of the EIA**
 - **To record comments**
-

INTRODUCTION

- **Applicant** – Garob Wind Farm (Pty) Limited and the project developed by juwi Renewable Energies (Pty) Ltd
- **Extent & Location** ^{K1} - Portion 5 of farm Nelspoortje 103 within the Siyathemba Local Municipality
- **Applicant requires Authorisation from DEA in terms of NEMA :**
 - Overarching environmental legislation in South -Africa
 - Specifies the EIA process
 - Independent environmental studies in accordance with the EIA Regulations of June 2010

Slide 5

K1

you dont mention extent here on the slide?

Karen, 2012/12/04

EIA PROCESS & PUBLIC INVOLVEMENT

PHASE 1

Notification of EIA Process

1. Application form - DEA
2. Advertise - local papers
3. Site notices
4. Written notification – I&APs

PHASE 2

Environmental Scoping Phase

1. Consultation - Stakeholders & I&APs
2. Flyers **K2** ID's
3. Focus Group Meetings
4. Public meeting
5. Public Review - Draft Scoping Report

PHASE 3

Environmental Impact Assessment Phase

1. On-going consultation
2. Public feedback meetings
3. Public Review - draft EIA Report & EMP

PHASE 4

Decision Making

1. Authority Review - Final EIA Report
2. Inform I&APs of decision
3. Appeals Process

We are here



Slide 6

K2

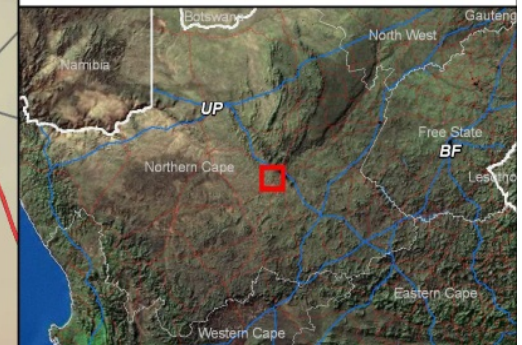
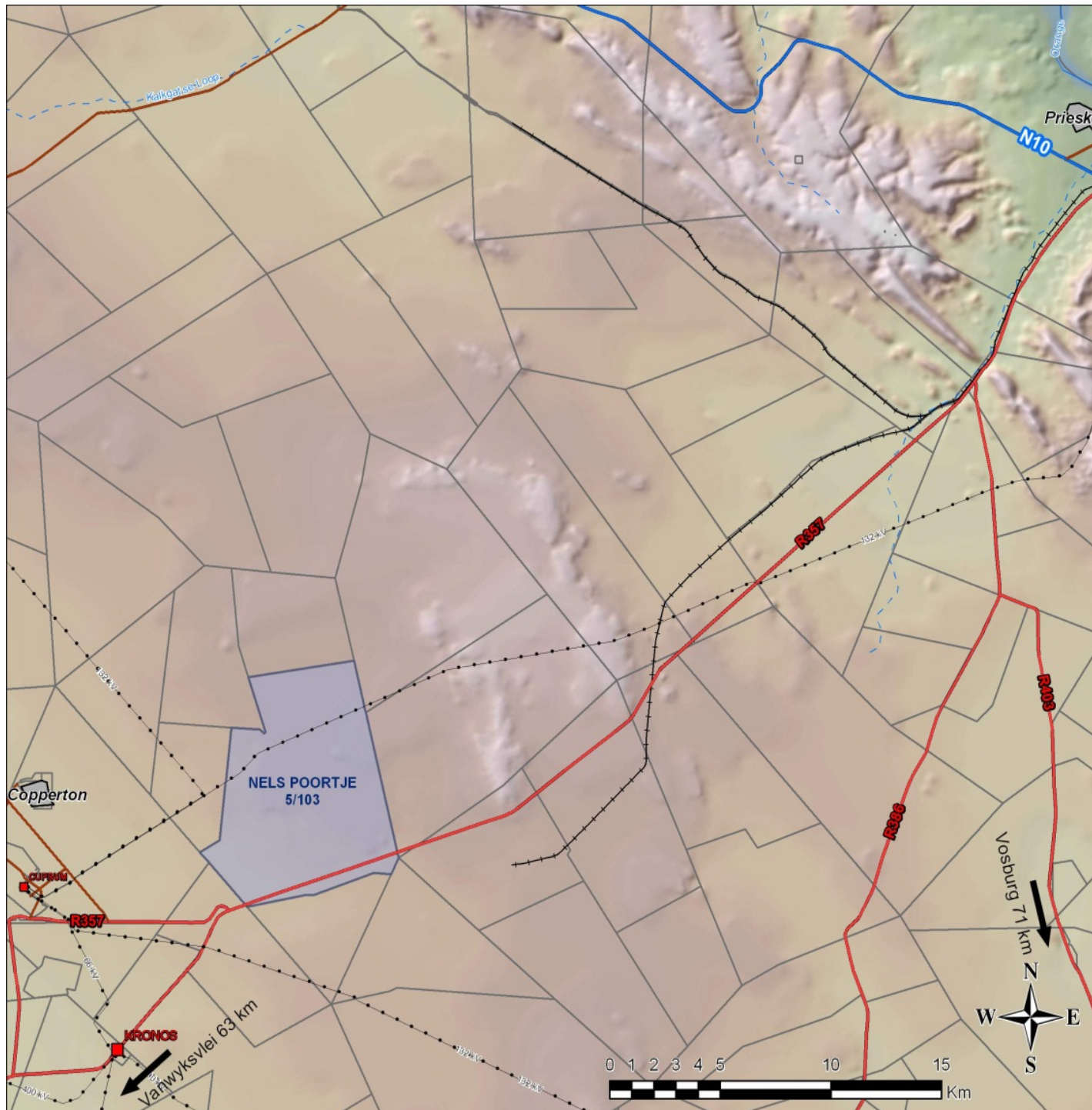
? for this project?
Karen, 2012/12/04

Garob Wind Energy Facility near Copperton, Northern Cape

Locality Map

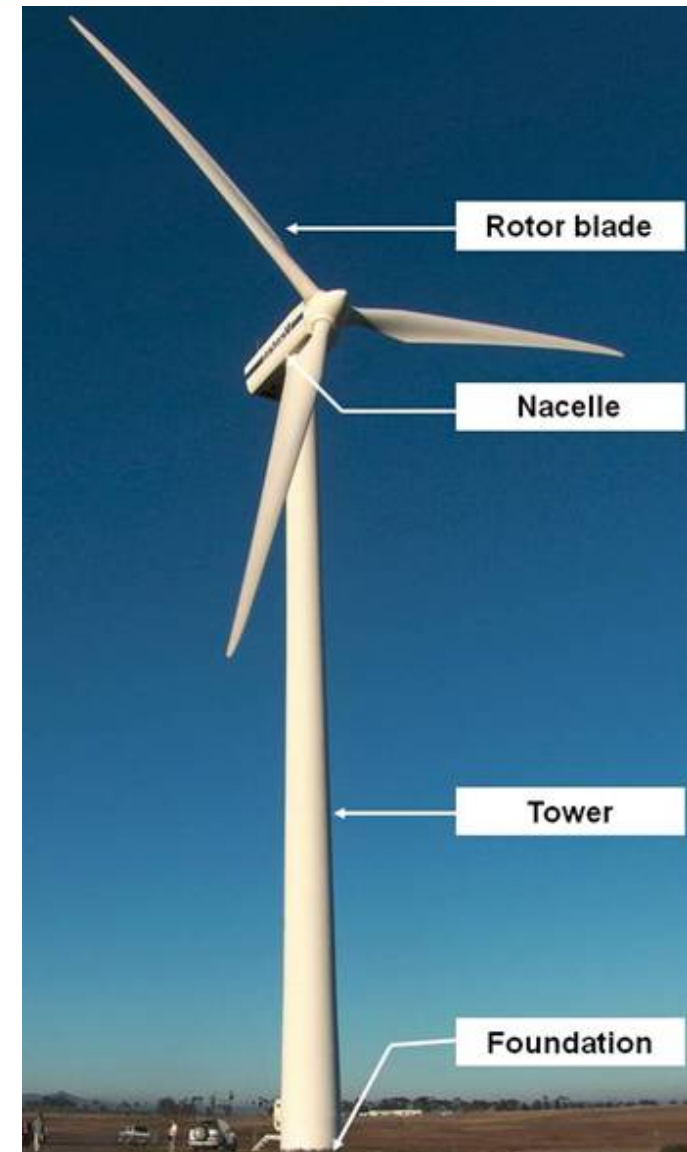
Legend

- National Road
- Regional Road
- Secondary Road
- +— Railway Line
- Perennial River
- - - Non-perennial River
- Power Line
- Distribution Substation
- Transmission Substation
- Farm portion

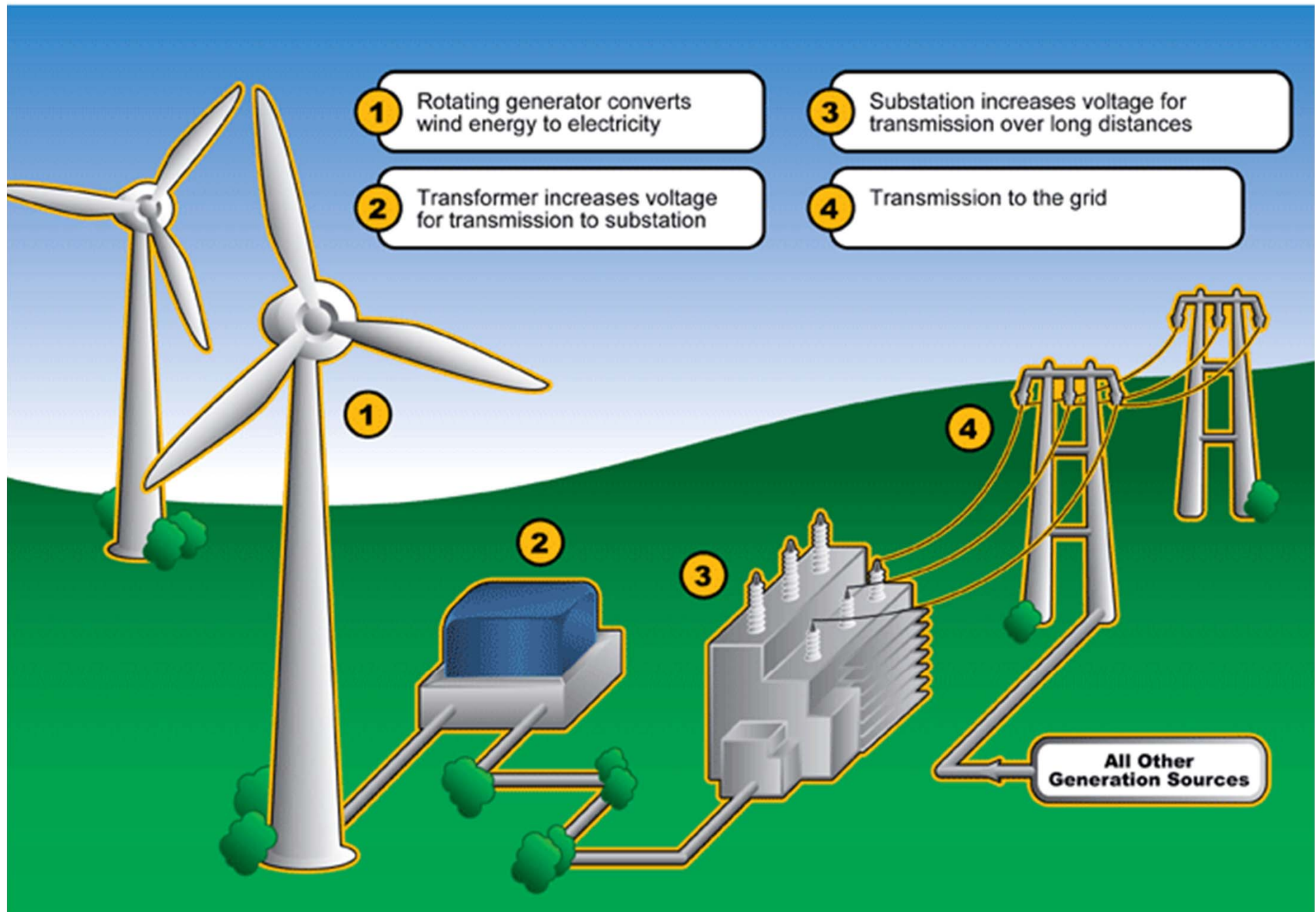


PROJECT COMPONENTS

- » **Up to 58 wind turbines.**
- » **Steel tower, of up to 100m high, a nacelle & three rotor blades with a rotor diameter (120m)**
- » **Concrete foundations**
- » **Underground cabling**
- » **Internal access roads**
- » **On-site substation**
- » **Overhead power line**
 - ❖ **Option 1: Loop in and out of the existing Burchell-Cuprum 132 kV line; or**
 - ❖ **Option 2: Connect directly to the existing Eskom Caprum Substation via a 132 kV power line. Different sub alternatives considered**



HOW DOES A WIND ENERGY FACILITY OPERATE?







Garob Wind Energy Facility near Copperton, Northern Cape Layout Map

Legend

-  National Road
-  Regional Road
-  Secondary Road
-  Perennial River
-  Non-perennial River
-  Existing Power Line
-  Distribution Substation
-  Farm portion




Layout

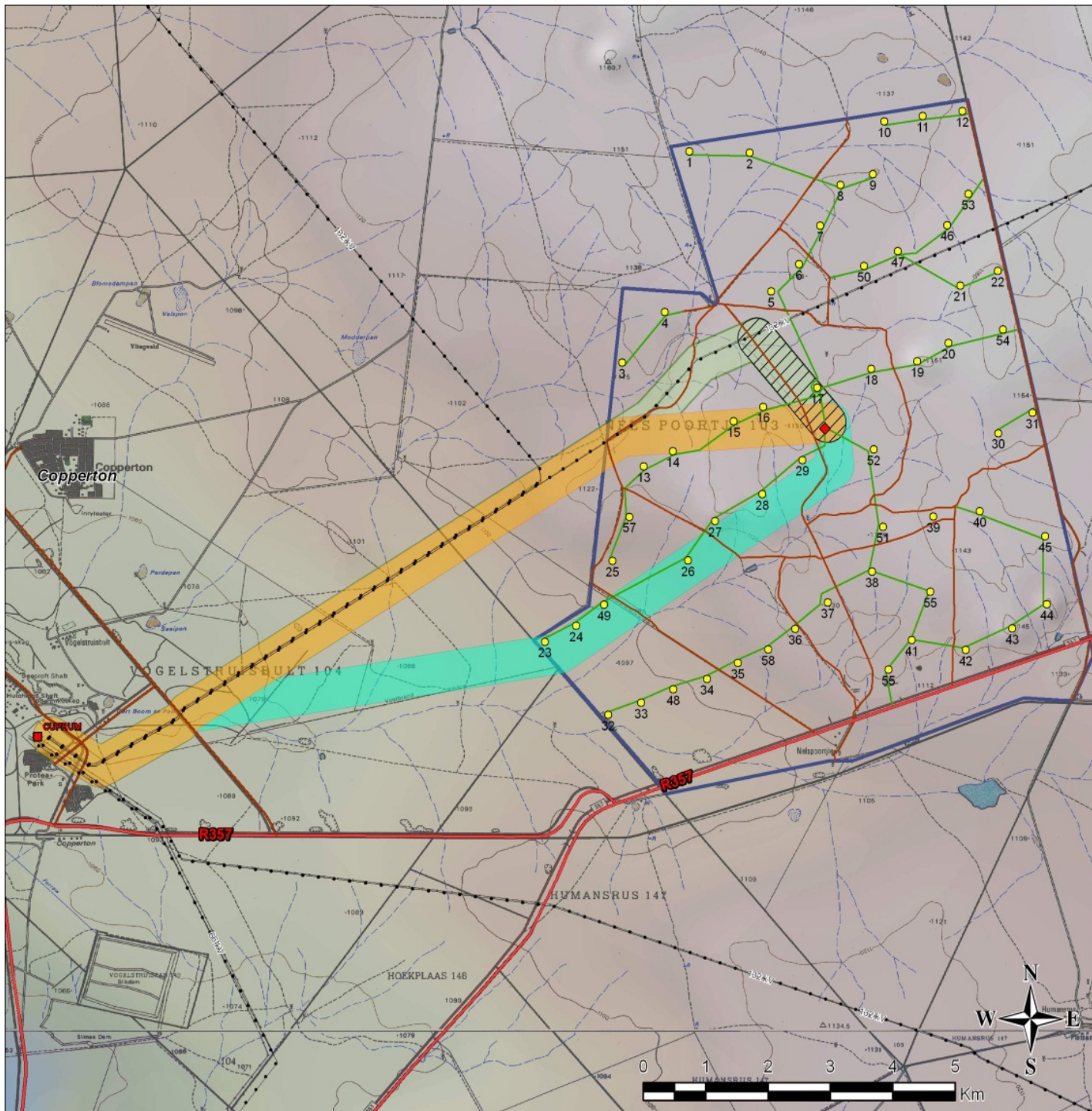
-  Wind Turbine
-  Proposed substation
-  Existing farm roads
-  New access roads

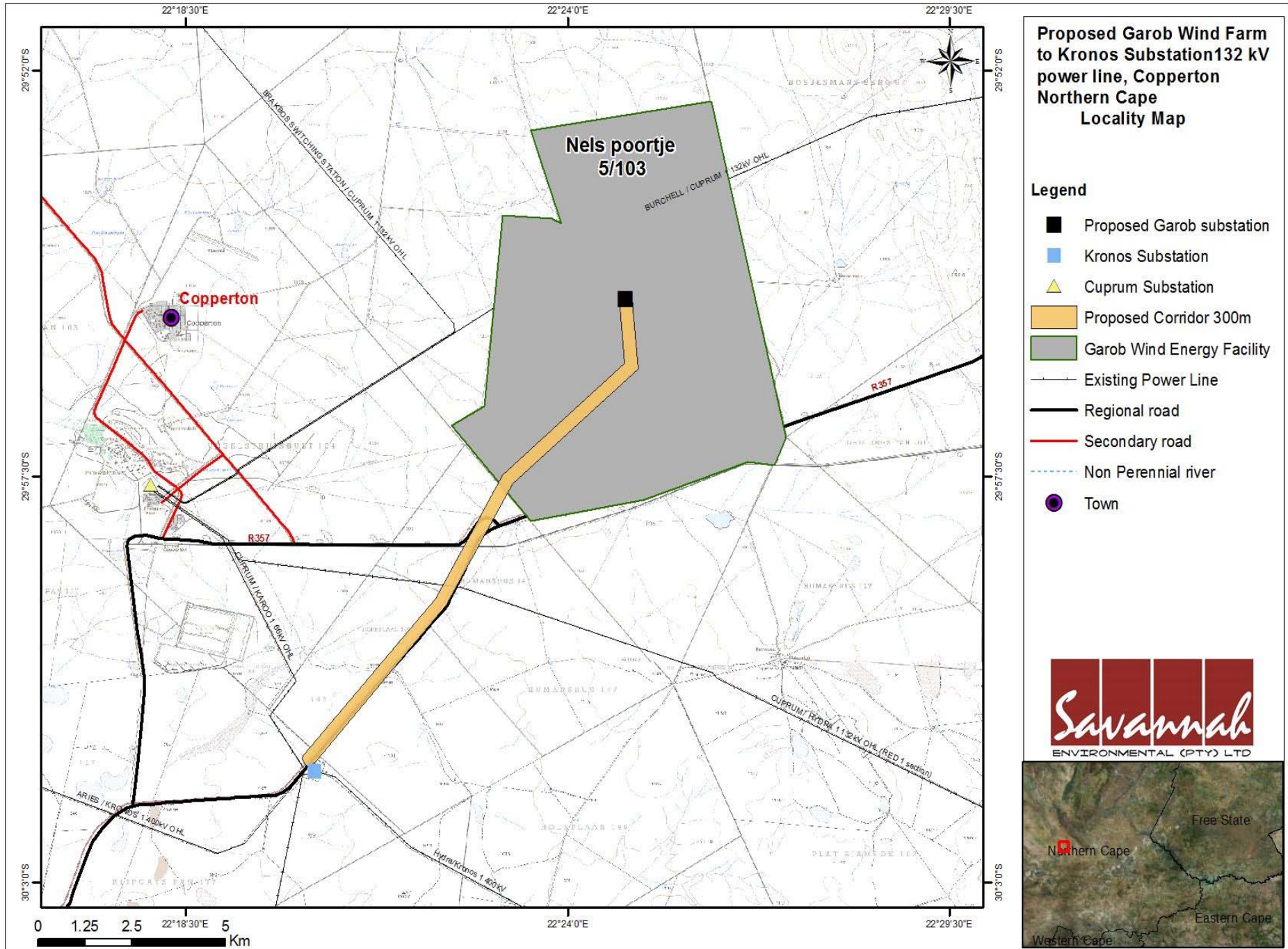
Corridors Option 1

-  Loop-in-and-out alternative

Corridors Option 2

-  Power line alternative 1A
-  Power line alternative 1B
-  Power line alternative 2





CONSTRUCTION







**ENVIRONMENTALLY SENSITIVE
AREAS IDENTIFIED**



Garob Wind Energy Facility near Copperton, Northern Cape

Sensitivity Map

Legend

- Regional Road
- Secondary Road
- Perennial River
- Non-perennial River
- Existing Power Line
- Distribution Substation
- Farm portion

Layout

- Wind Turbine
- Proposed substation
- Existing farm roads
- New access roads

Corridors Option 1

- Loop-in-and-out alternative

Corridors Option 2

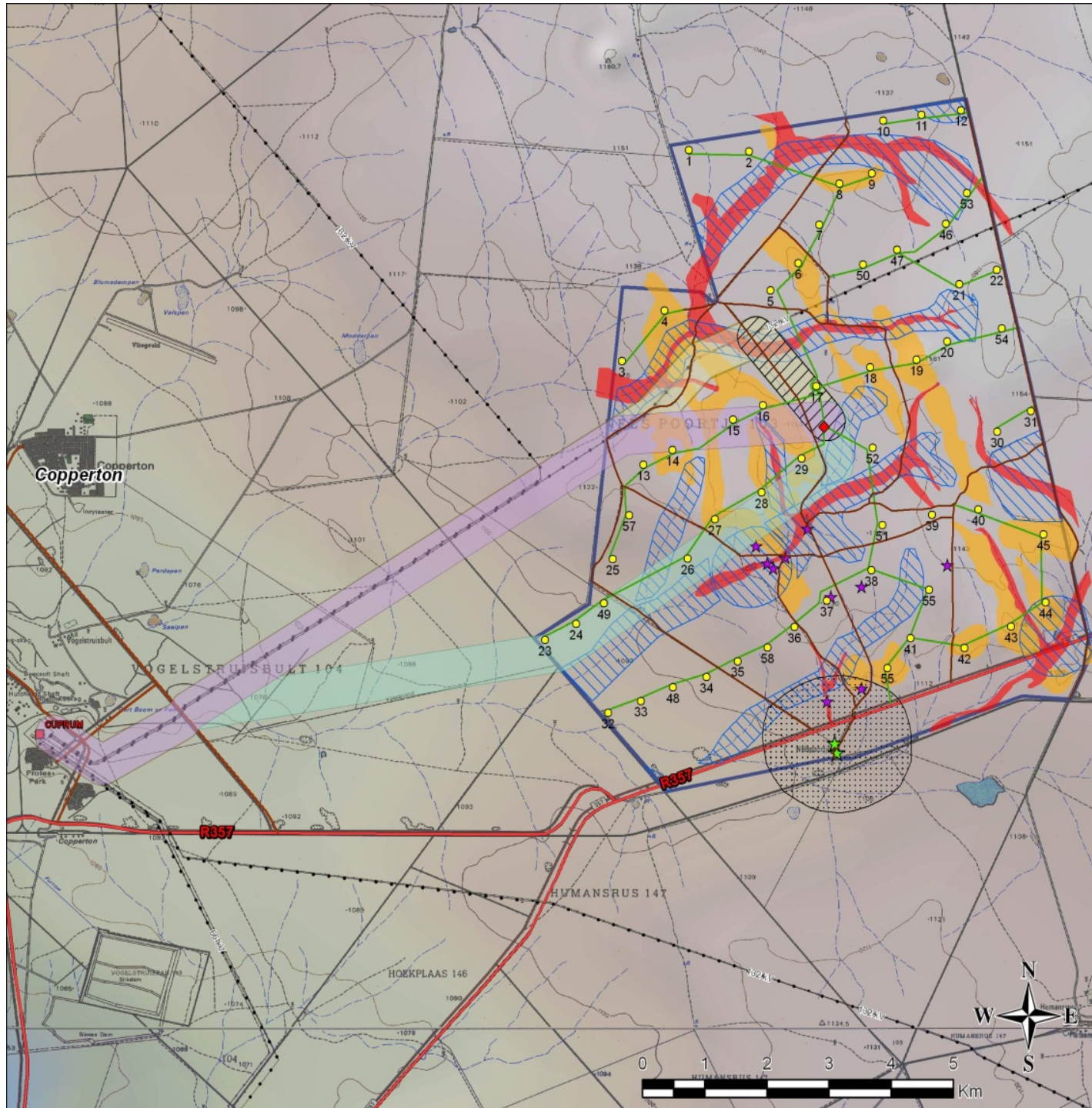
- Power line alternative 1A
- Power line alternative 1B
- Power line alternative 2

Sensitivity

- Noise sensitive developments
- Heritage sites
- Bat sensitive area
- Bird sensitive area

Ecological Sensitivity

- Drainage lines
- Quartzitic hills



CONCLUSIONS

- **Negative and Positive impacts may occur.**
- **Impacts can be mitigated / enhanced through EMP.**
- **Impacts have be managed to acceptable levels.**
- **Bird & Bat Monitoring to continue to inform the design**
- **Project should be authorised.**

Slide 16

K3 edit this senetence - doesnt say anything

Karen, 2012/12/04

K4 edit - doesnt make sense

Karen, 2012/12/04

K5 ? do we say this? do we need to say this?

Karen, 2012/12/04

K6 this slide doesnt really say anything. need to edit this. you need to make meaningful statements here pls.

Karen, 2012/12/04

WAY FORWARD

- **Draft EIA Report review period: 09 November 2012 – 10 December 2012.**
 - **Report available at:**
 - ❖ **Siyathemba Public Library**
 - ❖ **Alpha Library**
 - ❖ **Alkantpan Lodge**
 - ❖ **www.savannahSA.com**
 - **Final EIA Report to be submitted to DEA–
December 2012**
 - **Decision – March/April 2012**
-



WHO TO CONTACT

Gabriele Wood of Savannah
Environmental

PO Box 148, Sunninghill, 2157




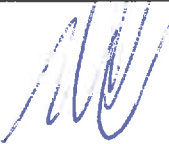

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SAVANNAH ENVIRONMENTAL (PTY) LTD				ATTENDANCE REGISTER			
Project	Garob Wind Energy Facility			Meeting		Public Meeting	
Date	5 November 2012	Time	16h00	No.		Venue	Nelspoortje Guest Farm



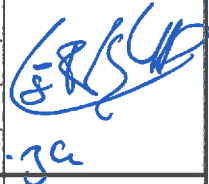
	Organisation	Name & Postal Address	Contact Details	Signature
1	SAVANNAH	BONGANI KHUPHE	Tel : :	
	Designation		Fax : :	
	EAP		Cell : :	
2	SF2A	Shawn Johnston P.O. Box 749 Rondebosch 7701	Tel : 0833259965	
	Designation		Fax : 0865102537	
	Process Specialist		Cell 0833259965	
			E-mail: Sjohnston@nwrb.co.za	
3	Juwi	Chris Bellingham	Tel : 021 8516130	
	Designation	22nd Floor, MET LIFE BUILDING	Fax : :	
	PROJECT MANAGER	7 COEN STEYLER, CAPE TOWN, 8001	Cell : 078 926 8852	
			E-mail : bellingham@juwi.co.za	
4	Juwi	Mark van Niekirk	Tel : 021 8516131	
	Designation	22nd Floor Met Life Building	Fax : :	
	Project Manager.	7 Coen Steyler Av Cape Town 8001	Cell : 082 329 7383	
			E-mail : vanniekirk@juwi.co.za	
5	Nelspoortje	Wilhette Furie	Tel : :	
	Designation	Posbus 382, Prieska	Fax : :	
	Owner Nelspoortje	Nelspoortje Prieska	Cell : 0721181946	
			E-mail : nelspoortje@lantic.net	

	Organisation	Name & Postal Address	Contact Details	Signature
	Nelspoortjie Farm	B.P. Jare P.O. Box 382	Tel : Fax :	
	Designation	Preska	Cell : 082 853 1372	
	Farm Owner	8946	E-mail : nelspoortjie@lanticanet	
			Tel : Fax :	
	Designation		Cell : E-mail :	
			Tel : Fax :	
	Designation		Cell : E-mail :	
			Tel : Fax :	
	Designation		Cell : E-mail :	
			Tel : Fax :	
	Designation		Cell : E-mail :	

SAVANNAH ENVIRONMENTAL (PTY) LTD				ATTENDANCE REGISTER			
Project	Garob Wind Energy Facility			Meeting		Onsite Meeting with Department of Water Affairs	
Date	5 November 2012	Time	10h00	No.		Venue	Nelspoortje Farm

	Organisation	Name & Postal Address	Contact Details	Signature
1	SAVANNAH	BONGANI KHUPE	Tel : :	
	Designation		Fax : :	
			Cell : :	
			E-mail : :	
2	JUWI	Mark van Niekerk	Tel : 021 831 6100	
	Designation	22 Floor Metropolitan Life Building	Fax : :	
	Project Manager	7 Caen Steytler Avenue, Cape Town	Cell : 082 329 7383	
			E-mail : Vanniekerk@juwi.co.za	
3	Water Affairs	Mbusisi (CHRISTOPHER)	Tel : 054 338 5891	
	Designation	CEBELEHUMU	Fax : 054 334 6205	
			Cell : 083 2722 554	
			E-mail : Cebekhulum@dwa.gov.za	
4	SF2A	Shawn Johnston	Tel : 0833259965	
	Designation	P.O. Box 749	Fax : 0865102537	
	Process Specialist	Rondebosch	Cell : 0833259965	
		7701	E-mail : SWjohnston@marb.co.za	
5	JUWI	CHRIS BELLINGHAM	Tel : 021 831 6150	
	Designation		Fax : :	
	P.M.		Cell : 078 9268852	
			E-mail : bellingham@juwi.co.za	

SAVANNAH ENVIRONMENTAL (PTY) LTD				ATTENDANCE REGISTER			
Project	Garob Wind Energy Facility			Meeting		Meeting with Siyathemba Local Municipality	
Date	6 November 2012	Time	10h00	No.		Venue	Siyathemba Local Municipality, Victoria Street Prieska

	Organisation	Name & Postal Address	Contact Details	Signature
1	SFZA Procurement Specialist	Shawn Johnston P.O. Box 749 Kondebas 7741	Tel : 083 325 9965 Fax : 086 510 2837 Cell : 083 325 9965 E-mail: swjohnston@nwco.co.za	
2	Juni Project Manager.	Mark van Niekerk 22 nd Floor Met Life Building 7 Coen Steytler Avenue. Cape Town.	Tel : 021 831 6100 Fax : Cell : 082 829 7383 E-mail : vanniekerk@juni.co.za	
3	SAVANNAH ENVIRONMENTAL Designation	Bonyani Khuphe P.O. Box 148 Sunningdale	Tel : 0833 533341 Fax : Cell : E-mail : bonyani@savannahsec.com	
4	Juni Project Manager	CHRIS BELLINGHAM 22 ND FLOOR, MET LIFE BUILDING 7 COEN STEYTLER AV CAPE TOWN 8001	Tel : 021 8316130 Fax : Cell : 078 926 8852 E-mail : bellingham@juni.co.za	
5	Siyathemba Designation Johann	Victoria street, P.O. Box 16 Prieska, 8940	Tel : 053 x 3535306 Fax : 053 x 351386 Cell : 082 804 2374 E-mail : johannb@siyathemba.gov.za	