

MEETING WITH ORGANS OF STATE BEFORE BASIC  
ASSESSMENT REPORT'S AVAILABILITY FOR REVIEW AND  
COMMENT

**Power Line Infrastructure was presented and  
discussed at the meetings held for the Wind Energy  
Facility**

BIRDLIFE SOUTH AFRICA

# NAMAS WIND FARM AND ZONNEQUA WIND FARM, NORTHERN CAPE

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**NOTES OF FOCUS GROUP MEETING WITH BIRDLIFE SA  
HELD ON 18 JULY 2018  
KIRSTENBOSCH BOTANICAL GARDENS, CAPE TOWN**

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**Notes for the Record prepared by:**

**Savannah Environmental (Pty) Ltd**

**Contact:** Ms Rozanne Els

**Position:** Public Participation Co-Ordinator

**E-mail:** [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)

***Please address any comments to Rozanne Els at the above address***

## NAMAS WIND FARM AND ZONNEQUA WIND FARM, NORTHERN CAPE

**Venue:** Room A3, Centre for Biodiversity Conservation, Building Kirstenbosch Botanical Gardens, Rhodes Drive, Cape Town

**Date:** 18 July 2018

**Time:** 13:00

### WELCOME AND INTRODUCTION

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Lisa Opperman, of Savannah Environmental, welcomed all present and thanked the attendees for availing themselves for the meeting. She noted that Genesis Namas Wind (Pty) Ltd and Genesis Zonnequa Wind (Pty) Ltd propose the development of two 140MW wind farms on adjacent sites within the Springbok Renewable Energy Development Zone (REDZ), approximately 20km south-east of the town of Kleinsee in the Northern Cape. The wind farms are known as the Namas Wind Farm and the Zonnequa Wind Farm and are located within the Nama Khoi Local Municipality and the Namakwa District Municipality. A suitable project site for the development of each of the wind farms has been identified by the project development companies.

Lisa Opperman noted that Genesis Namas Wind (Pty) Ltd and Genesis Zonnequa Wind (Pty) Ltd have appointed Savannah Environmental as the independent Environmental Assessment Practitioner (EAP) responsible for undertaking a Basic Assessment (BA) process to identify and assess all potential environmental impacts associated with the projects, and propose appropriate mitigation measures in an Environmental Management Programme (EMPr). She stated that the purpose of the meeting was to introduce the Namas Wind Farm and the Zonnequa Wind Farm and to provide feedback on the Avifaunal Impact Assessment and provide a description of the BA and public participation process being undertaken. She also noted that the comments raised during the meeting will be included and addressed as part of the BA reports for the projects and will also be considered by the avifaunal specialist appointed to undertake the Avifauna Impact Assessments (i.e. Rob Simmons). As the abbreviated process is applicable for the applications for authorisation, it is considered necessary to engage with key stakeholders prior to the release of the report in order to ensure that key requirements/comments are noted and addressed ahead of finalising the reporting. This will enable the application to remain within the prescribed timeframes.

### MEETING ATTENDEES

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Name	Organisation	Position
Samantha Ralston-Paton (SRP)	BirdLife SA	Birds and Renewable Energy Project Manager
Ralph Damonse (RD)	Genesis Eco-Energy Developments (Pty) Ltd	Project Developer
David Peinke (DP)	Atlantic Renewable Energy Partners (Pty) Ltd	Project Developer

Tamsin Sheard (TS)	Genesis Eco-Energy Developments (Pty) Ltd	Project Developer
Sonia Miszczak (SM)	Atlantic Renewable Energy Partners (Pty) Ltd	Project Developer
Lisa Opperman (LO)	Savannah Environmental (Pty) Ltd	Environmental Assessment Practitioner

## APOLOGIES

None

## BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECT

Lisa Opperman of Savannah Environmental presented the background and technical aspects relating to the Namas Wind Farm and the Zonnequa Wind Farm to the meeting attendees.

## DISCUSSION SESSION

Question / Comment	Response
SRP: Are the same specialists beings used to assess the proposed wind farms and the power lines for the facilities?	LO: Yes, the wind farms and their associated infrastructure, including the power lines, are assessed as part of one application for environmental authorisation. The same specialists are used to assess all infrastructure for both of the facilities.
SRP: Is a full Avifaunal Impact Assessment being undertaken as part of the shortened timeframe of the BA process considering the location of the projects within a REDZ?	LO: Yes, a 12-month monitoring programme has been undertaken and completed for birds for both wind farms in line with the best-practice guidelines of BirdLife, and a full impact assessment to assess the impacts on birds within the project sites will be included as part of the BA reports, which will be made available for comment and review.
SRP: This is the first process I have encountered which falls within a REDZ.	LO: Comment noted.
SRP: The size of the Secretarybird buffers identified within the project sites will need to be discussed further. There have not been a lot of Secretarybird collisions, but it is a threatened species so care must be taken in this regard. We are still in the process of developing the science to get a better understanding of the buffer sizes for the birds. Rob Simmons will have to provide a basis and justification for why a 1km buffer has been	LO: The concern raised regarding the size of the Secretarybirds buffers proposed for the wind farms is noted. This concern will be communicated to the avifaunal specialist to consider the comment and address the concern as part of the Avifaunal Impact Assessment Reports.

<p>applied for the Secretarybird nests. We have some tracking data for Secretarybirds which have been analysed to understand how far the birds move from their nests during the critical times. A 1km buffer around the Secretarybird nests will be too little, this will have to be considered further by the specialist.</p>	
<p>SRP: It is not considered favourable to move the nests of threatened species as mitigation as is being proposed for the Zonnequa Wind Farm project. It is preferred to move turbines, rather than nests; it is a safer option as you can't always predict how birds are going to respond. There is a reason the birds started nesting there and they may go back to the same area again.</p>	<p>LO: The concern raised, regarding the relocation of the nest is noted. The avifauna specialist will consider the comment and address it as part of the avifauna impact assessment report.</p>
<p>SRP: Previous correspondence has been undertaken with Rob Simmons regarding buffer sizes for birds. Craig Whittington-Jones from the Gauteng Department recommends a 3km buffer. There is also a risk that birds behave differently in the north than here.</p>	<p>LO: The concern raised, regarding the size of the Secretarybirds buffers proposed for the wind farms and the risk of differing bird behaviour, is noted. This concern will be communicated to the avifaunal specialist to consider the comment and address the concern as part of the Avifaunal Impact Assessment Reports.</p>
<p>RD: From the few instances where tracking technology has been applied [to Secretarybirds], the tracking pattern was very different from what was expected from the trackers on an existing wind farm. Have you reached a conclusion about the behaviour of and the ranges that the birds are actually moving?</p>	<p>SRP: I am not aware of a Secretarybird that has been tracked at a wind farm. The birds have however been tracked in other environments. The birds generally spend a lot of time close to the nests during the critical breeding time. The juvenile will start exploring to and from the nest and can also move hundreds of kilometres away. I will commit to speaking to other experts in BirdLife to get an agreement.</p> <p>LO: The Avifaunal Impact Assessment report will consider the behaviour of the species and provide justification for the recommended buffers.</p>
<p>SRP: How do the developers feel about the mitigation recommended by the avifaunal specialist to paint one blade of the wind turbines black? Is that something the developer will be happy to experiment with? An experiment in Norway has shown very promising results with the implementation of</p>	<p>DP: It is dependent on whether the Civil Aviation Authority (CAA) will accept this and whether the Original Equipment Manufacturers (turbines suppliers) will be able to cater for this change. The developers are not averse to this mitigation measure.</p>

<p>this mitigation measure. Birdlife would like to see this measure tested more, however the challenges related to this measure are recognised.</p>	
<p>RD: We are open to suggestions for mitigation.</p>	<p>SRP: Comment noted</p>
<p>SRP: The Booted Eagle is not a threatened species, but there have been fatalities.</p>	<p>LO: Commented noted.</p>
<p>SRP: Are there any other raptors or Jackal Buzzards present?</p>	<p>LO: No, none have been identified to date.</p>
<p>SRP: The projects are located south of a very localised lark, called Barlow's Lark, found near Port Nolloth. It is not a threatened species, but it is has a localised range. It will not be a red-flag to development as it is not threatened. However, the distance between the lowest blade tip and the ground will need to be considered o ensure that the species does not get hit.</p>	<p>LO: The concern raised regarding the potential presence of the Barlow's Lark is noted.</p>
<p>SRP: With the information available I do not predict any red flags to development in the area. Ludwig's Bustard is a problem, probably more for the power line than for the actual wind turbines. Bird flight diverters on the power lines do not seem to be that effective for this species. The species also tend to be more nomadic.</p>	<p>LO: Eskom is in the process of starting with the construction of a 400kV power line (Gromis Juno 400kV) to the Gromis Substation and the 132kV power lines proposed for the wind farms will be located directly adjacent and parallel to the Eskom line. The specialist is proposing to stagger the pylons of the power lines to increase the visibility of the lines for birds.</p>
<p>DP: The ideal for the two projects is to have one collector substation and a single power line to connect the facilities to Gromis Substation. There are other projects in the area and the intention would be to connect all the projects to the one collector substation and have only one power line which connects the facilities to Gromis substation. This effort is a collaboration between the developers within the area and Eskom.</p>	<p>RD: This enables the sharing of infrastructure between developers and therefore reduce the impacts of power lines.</p>
<p>SRP: What has recently come to light is that some wind farms are constructing their internal reticulation lines between the turbines above-ground as these do not trigger a listed activity. But within an environment like this it would be preferred to have the lines placed below-ground due to the Bustard collision risk.</p>	<p>DP: The internal lines will be below-ground.</p>

<p>LO: The process for the Kap Vley wind energy facility is currently being undertaken, is there any insight to add from a cumulative perspective?</p>	<p>SRP: No comment has been submitted for the Kap Vley Wind Farm project as yet, but cumulative impacts need to be assessed.</p>
<p>LO: Is there anything else that would specifically need to be covered in the Avifaunal Impact Assessment report?</p>	<p>SRP: Due to not having sight of the Avifaunal Impact Assessment reports as yet this will be difficult. But I can look at the reports when they are finalised and available, prior to the release of the BA reports to provide some input.</p>
<p>LO: Feedback will be provided to the specialist regarding the comments raised here today so that they can be considered and addressed as part of the reports.</p>	<p>SRP: Comment noted.</p>
<p>RD: Regarding Craig Whittington-Jones from the Gauteng Department and his recommendation on the Secretarybird buffer, is he a colleague or part of a government organisation?</p>	<p>SRP: The correspondence referred to here was internal communication with a few experts. The tracking data referred to was undertaken by BirdLife SA and analysed to see where the birds spend most of their time and predict what their core range is likely to be and, through the analysis, predict what the size of an appropriate buffer would be.</p>
<p>DP: What does it cost to tag a bird?</p>	<p>SRP: Probably less than R 50 000.00, however, depending on how much detail is required.</p>
<p>SRP: Are you considering tagging the birds?</p>	<p>DP: If we have to increase the buffer from 1 km to 3km I would prefer to keep the buffer at 1km but monitor in the form of pre-construction monitoring to see what the activity is, and if it is indeed more severe then we extend it.</p> <p>SRP: If additional studies are undertaken outside of the EIA process it will not be considered as part of the decision-making process. The data would need to inform the EIA. The tagging of the birds is supported, however I would be more comfortable with applying a precautionary buffer and if the tracking data indicates that the area where the bird spends its time is less than the buffer, then the buffer can be reduced.</p>
<p>DP: What if the pre-construction monitoring looks specifically at the movement of the birds through tagging and if the requirement is specifically included as a condition of the Environmental Authorisation?</p>	<p>SRP: This would not be sound decision-making. The purpose of the EIA is to inform development and inform mitigation. Something as key as the layout of your turbines, is critical mitigation. And if the decision on the layout is postponed till after the decision on the Environmental Authorisation, it is not legally correct.</p>



DP: If a 3km buffer is required then there must be a sound reason for it.	SRP: This is also true for the application of a 1km buffer. If the specialist says a 1km buffer is sufficient, the reasoning behind it must be provided.
SRP: I would really support tracking as it is really useful, however the timing of it is quite tricky.	LO: Comment noted.
SRP: The location of the nest relative to what is planned in the surrounding area would also need to be considered by the specialist. If you have a nest completely surrounded by turbines, then the bird is going to fledge and go through a dangerous environment.	RD: Comment noted. The lay of the land limits the number of turbines where the land parcel narrows. The geography of the land also needs to be considered.

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## WAY FORWARD AND CLOSURE


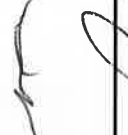


Lisa Opperman noted that the comments raised in the meeting will be provided to the avifaunal specialist for his consideration. She also stated that the interested and affected parties (I&APs) will be notified of the availability of the BA reports for review and comment, as well as the 30-day review period. She noted that comments received would be included in the final BA reports that would be submitted to the Department of Environmental Affairs (DEA) for decision-making. She thanked the meeting attendees for availing themselves for the meeting and closed the meeting.


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## Post Meeting Notes

Following the meeting with BirdLife a follow-up technical meeting was held on 14 August 2018 to further discuss the buffers of the Secretarybird nest recommended by the specialist and the justification for the size of the recommended buffers.

SAVANNAH ENVIRONMENTAL (PTY) LTD		ATTENDANCE REGISTER	
Project	Namas and Zonnequa Wind Farms		Birdlife SA
Date	18 July 2018	Time	13:00
		Meeting	
		Venue	Room A3, CBC Building Kirstenbosch Botanical Gardens, Rhodes Drive, Cape Town

	Organisation	Name & Postal Address	Contact Details	Signature
1	Birdlife SA Designation	Sam Ralston-Popson	Tel : Fax : Cell : 0836 733 5148 E-mail : energy@birdlife.org.za	
2	Genesis IS Designation	DAVID PENKE	Tel : Fax : Cell : 082 344 5911 E-mail : dpenke@iafrica.com	
3	AEP Designation	DAVID PENKE	Tel : Fax : Cell : E-mail : david@atlanticep.com	
4	GENESIS Designation	TAMSIN SHEARD	Tel : Fax : Cell : 083 251 2798 E-mail : tamsin.sheard@genesis-cc.com	
5	AEP Designation	SONIA MISCOZAK	Tel : Fax : Cell : E-mail : SONIA@ATLANTICEP.COM	

Organisation	Name & Postal Address	Contact Details	Signature
Savannah Environmental Designation EAP	Lisa Opperman	Tel : 011 656 3237 Fax : Cell : E-mail : lisa.o@savannahisa.com	
Designation		Tel : Fax : Cell : E-mail :	
Designation		Tel : Fax : Cell : E-mail :	
Designation		Tel : Fax : Cell : E-mail :	
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# NAMAS WIND FARM AND ZONNEQUA WIND FARM, NORTHERN CAPE

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**NOTES OF FOCUS GROUP MEETING WITH BIRDLIFE SA  
HELD ON 14 AUGUST 2018  
KIRSTENBOSCH BOTANICAL GARDENS, CAPE TOWN**

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**Notes for the Record prepared by:**

**Savannah Environmental (Pty) Ltd**

**Contact:** Ms Rozanne Els

**Position:** Public Participation Co-Ordinator

**E-mail:** [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)

***Please address any comments to Rozanne Els at the above address***

## **NAMAS WIND FARM AND ZONNEQUA WIND FARM, NORTHERN CAPE**

**Venue:** Room A3, Centre for Biodiversity Conservation, Kirstenbosch Botanical Gardens, Rhodes Drive, Cape Town

**Date:** 14 August 2018

**Time:** 10:00

### **WELCOME AND INTRODUCTION**

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The Namas Wind Farm and the Zonnequa Wind Farm are 140MW wind projects located within the Springbok Renewable Energy Development Zone (REDZ). As the abbreviated process is applicable for the applications for authorisation, it is considered necessary to engage with key stakeholders prior to the release of the report in order to ensure that key requirements/comments are noted and addressed ahead of finalising the reporting. This will enable the application to remain within the prescribed timeframes.

The projects were introduced at a meeting held with BirdLife SA (BLSA) on 18 July 2018. At the focus group meeting held in July 2018, BLSA had raised a comment regarding the Secretarybirds that had been observed on both the project sites proposed for the wind farms, and specifically the need for a buffer where the nest sites had been identified. Comment was also raised regarding the potential relocation of the Secretarybird nest located within the Zonnequa Wind Farm project site. This meeting provides the opportunity for clarity to be sought regarding these issues. The purpose of the meeting is to provide an opportunity for Rob Simmons (appointed as the avifauna specialist) to give a brief summary of his findings following the 12-month pre-construction monitoring campaign at both the Namas and the Zonnequa sites, and specifically regarding the use of the site by Priority bird species.

Rob Simmons advised the following regarding the observed behaviour of the Secretarybirds for the two sites:

- » Namas Wind Farm: One inactive nest site observed; one flight of Secretarybird recorded only during the 12-month monitoring campaign; rest of the activity was at ground level.
- » Zonnequa Wind Farm: One inactive nest site observed.

A low number of flights were observed over the monitoring period and the Secretarybirds were only noted as a pair in August/September 2017. Other than the pair observed in August/September 2017, only a single bird was noted during the monitoring campaign. Throughout the duration of the monitoring period (in more than 300 hours), the Secretarybirds were never seen on both sites, and therefore it is believed to be the same bird moving between the two nests located within the project sites.

During the monitoring campaign, the farmers were consulted regarding the sightings. One farmer reported a Secretarybird nest close to the Kommagas road and off the project site, albeit several years before. Following the fatality of one adult, the single individual has since left the area.

Rob Simmons advised that a cautious approach is being taken on the projects. As there is no active breeding being undertaken at the nests, and limited individuals recorded within the area, a 1km exclusion area around each inactive nest is still recommended. The justification for a 1km exclusion zone was based on a collation of thoughts from specialists in the field; and explained by Rob Simmons to include the following:

1. This is not an active breeding site, and the 1km exclusion zone is put forward as a precautionary measure.
2. Craig Whittington-Jones advised that a distance of 2500m from a nest is considered a "sensitive" area.
3. Ernest Retief has, from the results of a juvenile tagged Secretarybird, demonstrated that the bird stayed within 1.3km from its nest, and that the findings were from an open grassland habitat.
4. There is no good usage data available.
5. The Secretarybird is a terrestrial species and rarely takes flight.
6. Records from breeding Secretarybirds on an Eastern Cape wind farm site showed that the birds spend less than 0.2% of the time in flight, but 85% of that time is in the rotor swept area.
7. There is one recorded fatality of a Secretarybird at a wind farm in South Africa.
8. Collision with fences result in more deaths of Secretarybirds (than collision with wind turbines).

## MEETING ATTENDEES

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Name	Organisation	Position
Samantha Ralston-Paton (SRP)	BirdLife SA	Birds and Renewable Energy Project Manager
David Peinke (DP)	Atlantic Renewable Energy Partners (Pty) Ltd	Project Developer
Tamsin Sheard (TS)	Genesis Eco-Energy Developments (Pty) Ltd	Project Developer
Sonia Mischczak (SM)	Atlantic Renewable Energy Partners (Pty) Ltd	Project Developer
Karen Jodas (KJ)	Savannah Environmental (Pty) Ltd	Environmental Assessment Practitioner
Marlei Martins (MM)	Birds and Bats Unlimited	Avifauna Specialist
Rob Simmons (RS)	Birds and Bats Unlimited	Avifauna Specialist

## APOLOGIES

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None

## DISCUSSION SESSION

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Question / Comment	Response
SRP: As the nests are not active, this is encouraging. The question will remain what if this situation changes, what can be done to safeguard the birds until more answers become available?	RS: One key mitigation for the area is to remove all roads from use within the recommended 1km buffer applied around the nests, as well as the removal all fences in these areas. There is no record of breeding on the sites, and no current breeding activity. The nests are inactive, and a second bird was only briefly observed on one occasion.
SRP: BirdLife SA is satisfied with the 1km buffer proposed for the Secretarybirds nests considering the justification provided by Rob Simmons. What management measures can be included into the Environmental Management Programme (EMPr) as long-term management or mitigation measures? The nest sites should be monitored continually for any breeding activity.	RS: The recommendation for long-term monitoring during the operation phase has been included in the Avifauna Impact Assessment Report. A change in activity during the operation phase monitoring will be noted.
SRP: Should a nest become an active breeding site, it may be necessary to consider shut down on demand during high risk periods.	RS: The potential for risk to a provisioning male during the breeding period (that is, when bringing food back to the nest, the bird will soar/glide into the nest area) is acknowledged, and this risk can also impact the survival rates in juveniles.
SRP: As not enough data is on hand to know success rate of black blade painting as a mitigation measure, the success of this cannot be relied on alone. However, the remoteness of this area (with the lack of visual observers) may lend this site to being a good test site for this mitigation measure.	DP: In the scenario that an inactive nest becomes active, as a developer the potential to paint one blade on each turbine for those few turbines close to the 1km buffer may be viable. This will depend on the turbine supplier's requirements.

## SUMMARY, WAY FORWARD AND CLOSURE

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In summary, the 1km exclusion zone put forward as a precautionary measure is supported by BLSA, following the rationale provided by the specialists. BLSA will review the report once made available and provide any written comments as may be required. Karen Jodas thanked the meeting attendees for availing themselves for the meeting and closed the meeting.






## Post Meeting Notes

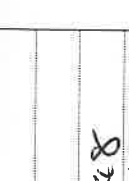
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Following the meeting, further correspondence was undertaken between the avifauna specialist and BirdLife and the size of the buffer around the nest located on the Namas Wind Farm project site and the recommendation of the relocation of the nest located on the Zonnequa Wind Farm project site was accepted. This is confirmed in the Avifauna Impact Assessment included as **Appendix E** of the Basic Assessment report.



SAVANNAH ENVIRONMENTAL (PTY) LTD		ATTENDANCE REGISTER	
<b>Project</b>	Namas Wind Farm and Zonnequa Wind Farm, Northern Cape	<b>Meeting</b>	BirdLife SA
<b>Date</b>	14 August 2018	<b>Time</b>	10:00
		<b>Venue</b>	Kirstenbosch National Botanical Gardens, Cape Town

	Organisation	Name & Postal Address	Contact Details	Signature
1	Savannah Environmental <b>Designation</b> EAP	Karen Jodas	Tel : 011 656 3237 Fax : Cell : E-mail : karen@savannahsa.com	
2	<b>AEP</b> <b>Designation</b> PEVELOPER	DAVID PENKE	Tel : 021 418 2596 Fax : Cell : E-mail : david.p@atlanticp.com	
3	<b>GENESIS</b> <b>Designation</b> DEVELOPER	TANSIN SHEARO	Tel : 083 2512748 Fax : Cell : E-mail : tansin.shearoe@genesis-eco.com	
4	<b>AEP</b> <b>Designation</b> DEVELOPER	SONIA MISZCZAK	Tel : 021 418 2596 Fax : Cell : E-mail : SONIA@ATLANTICP.COM	
5	<b>Birds &amp; Bats Unlimited</b> <b>Designation</b> Bird Specialists	marlei MARTINS Rob Simmons	Tel : 082 765 6850 / 082 7860133 Fax : Cell : E-mail : marlei.bushbaby@gmail.com rob.simmons@uct.ac.za	

Organisation	Name & Postal Address	Contact Details	Signature
BirdLife SP	Somayha Helston Paton	Tel : Fax : Cell : 0036733748 E-mail : energy@birdlife.org.za	
Designation Gross & K. Meyer		Tel : Fax : Cell : E-mail :	
Designation		Tel : Fax : Cell : E-mail :	
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ESKOM

## NAMAS WIND FARM AND ZONNEQUA WIND FARM, NORTHERN CAPE

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**NOTES OF FOCUS GROUP MEETING WITH ESKOM  
HELD ON 18 JULY 2018  
DOODLES RESTAURANT, BLOUBERGSTRAND**

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**Notes for the Record prepared by:**

**Savannah Environmental (Pty) Ltd**

**Contact:** Ms Rozanne Els

**Position:** Public Participation Co-Ordinator

**E-mail:** [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)

***Please address any comments to Rozanne Els at the above address***

## NAMAS WIND FARM AND ZONNEQUA WIND FARM, NORTHERN CAPE

**Venue:** Doodles Restaurant, Bloubergstrand

**Date:** 18 July 2018

**Time:** 11:00

### WELCOME AND INTRODUCTION

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Lisa Opperman, of Savannah Environmental, welcomed all present and thanked the attendees for availing themselves for the meeting. She noted that Genesis Namas Wind (Pty) Ltd and Genesis Zonnequa Wind (Pty) Ltd propose the development of two 140MW wind farms on adjacent sites within the Springbok Renewable Energy Development Zone (REDZ), approximately 20km south-east of the town of Kleinsee in the Northern Cape. The wind farms are known as the Namas Wind Farm and the Zonnequa Wind Farm and are located within the Nama Khoi Local Municipality and the Namakwa District Municipality. A suitable project site for the development of each of the wind farms has been identified by the project development companies.

Lisa Opperman noted that Genesis Namas Wind (Pty) Ltd and Genesis Zonnequa Wind (Pty) Ltd have appointed Savannah Environmental as the independent Environmental Assessment Practitioner (EAP) responsible for undertaking a Basic Assessment (BA) process to identify and assess all potential environmental impacts associated with the projects, and propose appropriate mitigation measures in an Environmental Management Programme (EMPr). She stated that the purpose of the meeting was to introduce the Namas Wind Farm and the Zonnequa Wind Farm and provide a description of the BA and public participation process being undertaken. She also noted that the comments raised during the meeting will be included and addressed as part of the BA reports for the projects. As the abbreviated process is applicable for the applications for authorisation, it is considered necessary to engage with key stakeholders prior to the release of the report in order to ensure that key requirements/comments are noted and addressed ahead of finalising the reporting. This will enable the application to remain within the prescribed timeframes.

### MEETING ATTENDEES

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Name	Organisation	Position
Gert Greeff (GG)	Eskom (adjacent landowner)	Manager: Land Management
Ralph Damonse (RD)	Genesis Eco-Energy Developments (Pty) Ltd	Project Developer
David Peinke (DP)	Atlantic Renewable Energy Partners (Pty) Ltd	Project Developer
Tamsin Sheard (TS)	Genesis Eco-Energy Developments (Pty) Ltd	Project Developer
Sonia Miszczak (SM)	Atlantic Renewable Energy Partners (Pty) Ltd	Project Developer

Lisa Opperman (LO)	Savannah Environmental (Pty) Ltd	Environmental Practitioner	Assessment
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## APOLOGIES

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None

## BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECT

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Lisa Opperman of Savannah Environmental presented the background and technical aspects relating to the Namas Wind Farm and the Zonnequa Wind Farm to the meeting attendees.

## DISCUSSION SESSION

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Question / Comment	Response
GG: No issues are foreseen with the development of the projects. The developers and Eskom will just need to conclude on the issues of the roads within the area that are proposed to be used for the developments. Eskom has confirmed that access for the use of these roads will not be denied.	LO: Comment noted.
GG: Eskom has a property next to the project sites which is also earmarked for the development of a wind energy facility. The rest of the Eskom properties might be used for the future development of solar energy, however no application for Environmental authorisation has been lodged.	LO: It is noted that Eskom is proposing the development of the Eskom Kleinsee Wind Farm, which is authorised and will have a capacity of 300MW and that solar energy facilities might be developed in future.
GG: Eskom have, in principle, already given approval for the 132kV power line servitudes to connect the facilities to the Gromis Substation.	LO: Comment noted.
GG: Eskom will not be registering servitudes on the properties owned by Eskom for the 400kV power line connecting to the Gromis Substation. Should Eskom decide to sell the properties in future then the servitudes will be registered.	LO: Comment noted.
GG: The three farm houses that are located along the road are unoccupied, with occasional occupation, about once a year, by farm labourers.	LO: The intermittent use of the farm houses located along the road is noted.


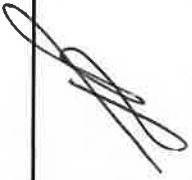


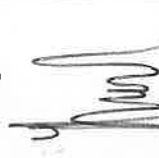
<p>DP: On the Zonnequa Wind Farm site, access will need to be gained by crossing underneath the 400kV Eskom line. Will that be an issue as turbine towers etc. will need to be transported?</p>	<p>GG: Eskom won't necessarily give approval to use the Eskom service road which will zigzag underneath the 400kv power Line to be constructed. Rather use the farm access road and cross under the line at one point, especially for the transporting of turbines.</p>
<p>GG: Remainder of the Farm No. 655 does not exist. The portion we are referring to is in fact Remainder of the Farm Brazil No. 329. This property is owned by Dep. of Public Works (DPW)</p>	<p>LO: Comment noted.</p>
<p>GG: The road which traverses the properties is a proclaimed road (i.e. public road), and an application to have the road de-proclaimed will be actioned in the future. Should the road be de-proclaimed, Eskom will not deny a right of way servitude.</p>	<p>LO: Comment noted.</p>
<p>GG: A way leave application can be made for power lines over any of the Eskom properties; the applications won't be denied by Eskom.</p>	<p>LO: Comment noted.</p>

## **WAY FORWARD AND CLOSURE**

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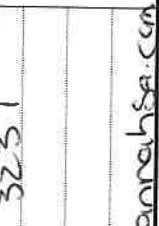
Lisa Opperman stated that the interested and affected parties (I&APs) will be notified of the availability of the BA reports for review and comment, as well as the 30-day review period. She noted that comments received would be included in the final BA reports that would be submitted to the Department of Environmental Affairs (DEA) for decision-making. She thanked the meeting attendees for availing themselves for the meeting and closed the meeting.

SAVANNAH ENVIRONMENTAL (PTY) LTD		ATTENDANCE REGISTER	
Project	Namans and Zonnequa Wind Farms		Meeting
Date	18 July 2018	Time	11:00
		Venue	Doodles Restaurant, Bloubergstrand

Organisation	Name & Postal Address	Contact Details	Signature
AEP Designation DEVELOPER	SOMIA MISZCZAK PO BOX 51060 WATERFRONT	Tel : 021 418 2596 Fax : Cell : E-mail : SOMIA@ATLANTICEP.COM	
AEP Designation DEVELOPER	DAVID PENNKE PO BOX 51060 WATERFRONT	Tel : 071 418 2596 Fax : Cell : E-mail : david@atlanticop.com	
Kiskom. Designation —	Street GAWZIFI, Private Bay X10 Kusumang, YHAU	Tel : Fax : Cell : 082 784 4374 E-mail : greeff@eskom.co.za	
Genesis Designation Developer	RA-AN AMPURSE	Tel : Fax : Cell : 082 344 5511 E-mail : damo@genisis.com	
Genesis Designation Developer	TAMISIN SHEARD	Tel : Fax : Cell : 083 251 2798 E-mail : tamsin.sheard@genesis-eco.com	

Rocky - 084 586 6667.



Organisation	Name & Postal Address	Contact Details	Signature
Savannah Environmental	Lisa Opperman	Tel : 011 656 3237	
Designation		Fax :	
EAP		Cell :	
		E-mail : lisa.o@savannahsa.com	
Designation		Tel :	
		Fax :	
		Cell :	
		E-mail :	
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MEETING WITH ORGANS OF STATE DURING THE BASIC  
ASSESSMENT REPORT'S REVIEW AND COMMENT  
PERIOD

**Power Line Infrastructure was presented and  
discussed at the Wind Energy Facility Meeting**

DEPARTMENT OF ENVIRONMENT AND NATURE  
CONSERVATION (DENC)

**BASIC ASSESSMENT AND PUBLIC PARTICIPATION  
PROCESS  
for the  
NAMAS AND ZONNEQUA WIND FARMS, ASSOCIATED  
INFRASTRUCTURE AND POWER LINE CORRIDOR NEAR  
KLEINSEE, NORTHERN CAPE PROVINCE**

**Northern Cape Department of Environment and Nature Conservation**

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**NOTES OF FOCUS GROUP MEETING  
HELD ON TUESDAY, 13 NOVEMBER 2018**

**VENUE: Department of Environment and Nature Conservation: Northern  
Cape Province Offices, Springbok**

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**Notes for the Record prepared by:**

Nicolene Venter

**Savannah Environmental (Pty) Ltd**

**E-mail: [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)**

***Please address any comments to Savannah Environmental at the above address***

## NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE AND POWER LINE CORRIDOR

**Venue:** DENC Northern Cape Province Offices, Springbok

**Date:** Tuesday, 13 November 2018

**Time:** 09h00

### WELCOME AND INTRODUCTION

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Ms Nicolene Venter, Public Participation Practitioner, Savannah Environmental, thanked the attendees for making time available for attending the Focus Group Meeting. After introducing herself and her role, she requested the project team and the attendance to introduce themselves.

### MEETING ATTENDEES

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Name	Organisation	Position
Mr Conrad Geldenhuys	Department of Environment and Nature Conservation (DENC)	Production Scientist: Grade B Botanist
Mr Peter Cloete		Production Scientist: Ecologist
Ms Tamsin Sheard	Developer	Genesis Eco Energy
Ms Sonia Mischczak	Developer	Atlantic Renewable Energy Partners
Ms Lisa Opperman	Savannah Environmental	Environmental Assessment Practitioner
Ms Nicolene Venter		Public Participation & Social Consultant

### APOLOGIES

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None received.

**Attendance record attached as Appendix A**

### BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECTS

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Two 140MW wind farms are proposed to be developed on adjacent sites within the Springbok REDZ, approximately 20 km south of the town of Kleinsee in the Northern Cape. The wind farms are known as the **Namas Wind Farm** and the **Zonnequa Wind Farm** and are within the Nama Khoi Local Municipality and the Namakwa District Municipality. Suitable project sites for the development of each of the wind farms has been identified within the Focus Area 8 of the Renewable Energy Development Zones (REDZ) which is known as the Springbok REDZ.

The farms Zonnekwa 328 and the Remaining Extent of the Farm Zonnekwa 326 are the properties identified for the **Zonnequa Wind Farm** and four (4) farms have been identified as suitable sites for

the **Namas Wind Farm**: Zonnekwa 328, portions 3 and 4 and Rooivlei 327, remaining extent and portion 3.

The associated infrastructure for both these wind farms will consist of:

- » concrete turbine foundations and hardstand areas;
- » temporary laydown areas, including storage and assembly areas;
- » internal cabling between the turbines;
- » temporary concrete batching plant; and
- » operation and maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop and visitors centre.

### **Grid Infrastructure**

The power generated by these two wind farms will feed into Eskom's existing grid network via a connection to the existing Gromis Substation located approximately 26km north of both the wind farm sites. The grid network will consist of a double-circuit 132kV power line and collector substation for each project and the proposed corridor for environmental assessment will be 300m wide. Should this corridor be found to be feasible, a registered servitude of 32m will be negotiated with the affected landowners.

It is the developer's intention to bid each wind farm under the Department of Energy's (DoE) Renewable Energy Independent Power Producer Procurement (REIPPP) Programme. The power generated from each facility will be sold to Eskom and will feed into the national electricity grid. The development of the facilities will also assist with the achievement of the electricity goals as set out in the Integrated Resources Plan (IRP).

### **Environmental Impacts as documented in the Basic Assessment Reports**

Ms Lisa Opperman informed the attendees that the environmental studies conducted for the Namas Wind Farm and the Zonnequa Wind Farm are:

- Ecology;
- Avifauna;
- Bats
- Land Use, Soils and Agricultural Potential;
- Heritage (including archaeology and palaeontology);
- Noise
- Visual;
- Socio-economic; and
- Traffic

No Fatal flaws were identified, and sensitive environmental features have been taken into account with the design layouts of both the wind farms and are therefore avoided.

The studies also indicated that the majority of the impacts will be of a medium to low significance although the visual impact would be high due to the flat terrain. This impact cannot be mitigated. All other environmental impacts can be mitigated to an acceptable level.

**Copy of presentation attached as Appendix B.**

**DISCUSSION SESSION**

Question / Comment	Response
<p>Mr Peter Cloete enquired whether a freshwater study was conducted.</p>	<p>Ms Lisa Opperman responded that during the screening study undertaken for the two project sites the ecologist, Simon Todd, undertook fieldwork for the two projects and did not identify any freshwater features within the sites. Due to the absence of freshwater features present within the project sites, as identified during the screening study (i.e. prior to the commencement of the BA processes), it was determined that there is no need for the undertaking of a Freshwater Impact Assessment as part of the Basic Assessment processes.</p>
<p>Mr Conrad Geldenhuys informed the project team that they had not yet had time to review the content of the BARs and enquire whether the Namaqualand Salt Pans were addressed in the study as the Namaqualand Salt Pans run directly through the sites.</p>	<p>Ms Opperman informed the attendees that this matter is addressed in the Ecological Impact Assessment Report and it was concluded in the report, and through the undertaking of fieldwork by the specialist, that the pans do not represent the Namaqualand Salt Pans unit as mapped by the VegMap, but rather represents a strandveld community associated with the coarse white sands that characterise this area. It was also noted that there are houses situated within these areas. The ecologist stated that this habitat is not currently operating as a hydrological feature and it is not considered as sensitive as it would be if it represented a more typical salt pan habitat.</p>
<p>Mr Geldenhuys informed the project team that the salt pans can diffuse its entity in the terrestrial environment, i.e. blend into the landscape. He is not quite familiar with the characteristics of these pans on the sites but assessing from google earth images it seems that there are patches that contain the characteristics of a salt pan.</p>	<p>Ms Opperman responded that the ecologist has undertaken fieldwork within the project sites and has ground-truthed that the salt pans do not represent the Namaqualand Salt Pans vegetation unit.</p>

Mr Cloete enquired where fresh water will be sourced from for the construction phase.	Ms Sonia Mischczak replied that fresh water will be sourced from the local municipality.
Mr Cloete asked, for clarification purposes, whether the water will be trucked in.	Ms Mischczak replied that it could be trucked in, should water not be supplied by the local municipality.
Mr Cloete enquired why the project site for the Namas Wind Farm is larger than that of the Zonnequa Wind Farm.	<p>Ms Opperman responded that the larger project sites were assessed to identify where the turbines could be located considering the sensitive environmental features present. Approximately 35ha would be required for the Namas Wind Farm development footprint and approximately 40ha would be required for the Zonnequa Wind Farm development footprint.</p> <p>Ms Mischczak informed the attendees that the eastern portion of the Namas Wind Farm project site (east of the Gromis/Juno 400kV power line) has been excluded as that portion of the project site is sensitive not only from a bats perspective but it is, from a biodiversity point of view, also sensitive. It is for these reasons that the Namas Wind Farm site is smaller than the Zonnequa Wind Farm.</p>
Mr Cloete enquired whether the footprint of the developments include the road infrastructure.	Ms Mischczak confirmed that it does.
Mr Cloete enquired for confirmation that turbines will not be constructed in sensitive bat areas.	Ms Opperman confirmed that a high sensitive buffer zone has been applied to sensitive bat features which have been avoided by the turbine placements included as part of the preferred development footprints.
Mr Geldenhuys enquired whether the possible impact on the Booted Eagle can be mitigated.	Ms Opperman responded that the avifaunal specialists recommended painting one blade of the turbines black or painting the blades with a UV paint to act as visual signalling to birds, but this is still being trialled on other facilities.
Mr Cloete informed the project team that an application for a permit needs to be lodged with the Department for the removal or relocation of any vegetation.	Ms Mischczak confirmed that all permits for the removal of vegetation will be attended to.
Mr Geldenhuys indicated that detailed planning needs to be undertaken where the project might impact on protected areas that are in the process of being expand.	Ms Opperman responded that with the consideration of the Northern Cape Critical Biodiversity Areas (CBA) it was identified that the Zonnequa Wind Farm project site is located within "Other Natural Areas", with a small area



	<p>in the southwest corner of the project site classified as an Ecological Support Area. The majority of the Namas Wind Farm project site is located within an Ecological Support Area, with some CBA2 present in the southwest of the project site, however the ecologist could not identify why this area has been classified as CBA2 considering the homogenous vegetation within the area. Both project sites are located outside of the Northern Cape Protected Area Expansion Strategy (NC-PAES) focus areas.</p>
<p>Mr Geldenhuys raised the concern regarding cumulative impacts, taking into consideration all the renewable energy projects receiving Environmental Authorisation (EA) in the area. The main concern is that some of the vegetation areas are not being identified as endangered.</p>	<p>Ms Opperman responded that the specialist environmental impact assessment reports address cumulative impacts and Chapter 10 of the BARs assess cumulative impacts as part of a separate assessment.</p>
<p>Mr Geldenhuys presented a map downloaded from the DEA's database on their website which indicates all the renewable energy projects that received EAs in the area and reiterated his concern regarding cumulative impacts.</p>	<p>Ms Opperman informed Mr Geldenhuys that unfortunately the DEA's information on their website is not updated as a few of the EAs have lapsed, which are therefore not considered as viable projects to be included and assessed as part of the cumulative impact assessment. It was mentioned that for each of the renewable energy projects that Savannah Environmental is conducting the BA or EIA, an investigation of the status of other proposed projects in the surrounding area is made to identify which projects are viable to include as part of the cumulative impact assessment. The cumulative impact assessment included in Chapter 10 of the BARs for the Namas Wind Farm and Zonnequa Wind Farm is considered to be the latest information.</p>
<p>Ms Nicolene Venter, as a reminder, informed the attendees that the grid connection information was presented at the FGM and that the comments received on the power line corridors will form part of the public participation process for the grid infrastructure Basic Assessment processes.</p>	<p>The attendees acknowledged the information received as presented.</p>
<p>Mr Geldenhuys informed the project team that the Strandveld Conservation area is in the process of formally registering a property in</p>	<p>Ms Opperman replied that to the project team's knowledge, the Strandveld Conservation area has not yet been formally declared a protected</p>

<p>Kleinsee as a protected area, and that the negotiations are still ongoing. He enquired whether this will affect these applications.</p>	<p>area, and that the declaration of the conservation area will not impact these projects. She informed the attendees that representatives from the Strandveld Conservation will attend the FGM to be held on Wednesday, 14 November 2018. The attendees were also informed that SanParks and World Wildlife Fund (WWF), who own some of SanPark's properties, are part of the consultation process.</p>
<p>Mr Cloete asked, for confirmation, whether no fresh water ecology studies will be conducted.</p>	<p>Ms Opperman confirmed, that it was identified not to be required for the project sites due to the absence of freshwater features.</p>
<p>Mr Geldenhuys enquired what quality of fresh water will be required for the construction of the turbines, as to his knowledge a certain type / quality of water is required.</p>	<p>Ms Mischczak replied that for the cement for the foundations the water must be of a high quality for the structural integrity of the cement.</p>

## WAY FORWARD AND CLOSURE

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In terms of the wind farms, Ms Opperman reminded the attendees that the Basic Assessment Reports' comment and review period started on the 24<sup>th</sup> of October 2018 and will end on the 23<sup>rd</sup> of November 2018. The attendees were requested that should they have any additional comments which were not discussed at the Focus Group Meeting, to please ensure that they reach the public participation office by the 23<sup>rd</sup> of November 2018. All comments raised during the public participation process will be included in the final Basic Assessment Reports that will be submitted to the Department of Environmental Affairs (DEA) by early December 2018 for decision-making.

It is envisaged that the DEA will issue their decision in February 2019.

In terms of the Grid Connection, the attendees were informed that:


- Basic Assessment Processes will be undertaken for the grid infrastructure associated with the wind farm, and that the detailed independent specialist studies will be completed, after which;
- the Basic Assessment Reports (BARs) will be drafted;
- Interested and Affected Parties (I&APs) will be notified of the availability of the BARs for review;
- the BARs will be made available for a 30-day review period;
- all comments received during the BARs' review period will be included in the final BARs;
- the final BARs will be submitted to the DEA for approval; and
- the expected timeframe for the BARs will be communicated to registered I&APs.


Ms Venter thanked the attendees once again for their attendance and informed them not to hesitate to submit any further queries regarding the proposed developments to the Savannah Environmental public participation office.


The meeting closed at 10h50

**ATTENDANCE REGISTER**


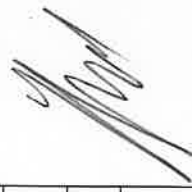

<b>Project</b>	Namas & Zonnequa Wind Farms		<b>Meeting</b>	Focus Group Meeting with Northern Cape Department of Environment and Nature Conservation
<b>Date</b>	13 November 2018	<b>Time</b>	9h00	<b>Venue</b> Boardroom, Northern Cape Department of Environment and Nature Conservation

Organization	Name & Postal Address	Contact Details	Signature
1 Savannah Environmental <b>Designation</b> Public Participation Consultant	Nicolene Venter First Floor, Block 2.5 Woodlands Drive Office Park, Woodmead	Tel: 011 656 2986 Fax: 086 684 0547 Cell: 083 377 9112 Email: nicolene@savannahsa.com	

Organization	Name & Postal Address	Contact Details	Signature
2 Savannah Environmental <b>Designation</b> EAP	Lisa Opperman First Floor, Block 2.5 Woodlands Drive Office Park, Woodmead	Tel: 011 656 2986 Fax: 086 684 0547 Cell: 084 920 3111 Email: lisa.o@savannahsa.com	


Organization	Name & Postal Address	Contact Details	Signature
3 Northern Cape Department of Environment and Nature Conservation <b>Designation</b> Dietrich Ecologist-Candidate Scientist Production Scientist	Peter Cloete c/o Voortrekker & Magasyn Street Springbok Northern Cape 8240 South Africa	Tel: 027-718-8800 Fax: Cell: Email: peter.denc87@gmail.com	

Ecologist

Organization	Name & Postal Address	Contact Details	Signature
4 Northern Cape DENC  Designation Production Scientist: Grade A Botanist	Conrad Geldenhuys Private bag X12 Springbok 8240	Tel: 027 718 8800 Fax: — Cell: — Email: c.geldenhuys@hotmail.com	
5 GENESIS BIO ENERGY  Designation DEVELOPER	TAMSIN SHEARD 39 De Villiers Rd kommotjie CT, INC. <del>8800</del>	Tel: 083 2512798 Fax: Cell: Email: tamsin.sheard@genesiscell.com	
6 ATLANTIC RENEWABLE ENERGY PARTNERS  Designation DEVELOPER	SONIA MISZCZAK PO BOX 51060 WATERFRONT 8002	Tel: 021 418 2546 Fax: Cell: Email: SONIA@ATLANTICEP.COM	
7  Designation		Tel: Fax: Cell: Email:	

# NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE, NORTHERN CAPE PROVINCE

Key Stakeholder Focus Group Meetings  
13 – 14 November 2018



1

## MEETING AGENDA


1. Welcome & introduction
2. Purpose of the Meeting
3. Scope of works
4. Project Overview
5. Overview of BA Process
6. Way forward



2

## PURPOSE OF THE MEETING


- » Provide I&APs with an overview of:
  - \* Namas Wind Farm and associated infrastructure
  - \* Zonnequa Wind Farm and associated infrastructure
- » Explain the **Basic Assessment (BA) & Public Participation** process(es) being undertaken
- » Present the findings of the **BA Reports**
- » Provide I&APs the opportunity to seek clarity regarding the projects
- » Opportunity to provide valuable input into/to inform the BA processes
- » Obtain and record comments for inclusion in the **Final BA Reports** to be submitted to DEA



3

## SCOPE OF WORKS


- » Assessment of the environmental and social impacts
- » Recommendation of appropriate mitigation measures
- » Studies include:
  - \* BA for the Namas Wind Farm (only the facility)
  - \* BA for the Namas Wind Farm associated grid infrastructure (incl. collector substation and power line)
  - \* BA for the Zonnequa Wind Farm (only the facility)
  - \* BA for the Zonnequa Wind Farm associated grid infrastructure (incl. collector substation and power line)



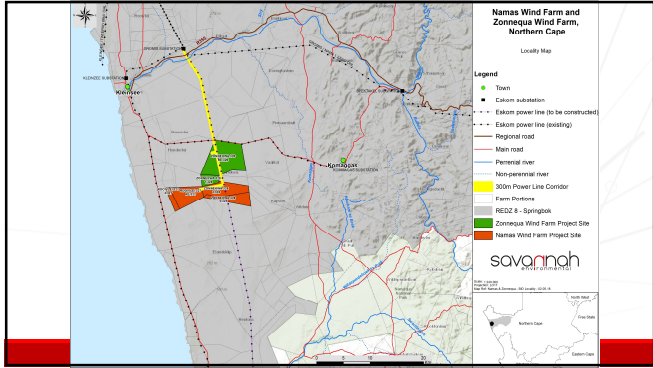
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## PROGRESS UPDATE

- » BAs for the Namas Wind Farm and Zonnequa Wind Farm (facilities only) – have been undertaken, reports are currently available for review and comment
- » BAs for the associated grid infrastructure – still underway



5



6

### DEVELOPMENT WITHIN A REDZ

- » REDZ - Renewable Energy Development Zone
- » Areas of strategic importance for large scale wind and solar photovoltaic development in terms of Strategic Integrated Project 8
- » Significant impacts on the natural environment are limited and socio-economic benefits to the country are enhanced
- » Shortened timeframe in terms of the EIA Regulations, 2014 (as amended), prescribed timeframes
- » Project location – Springbok REDZ



7

### PROJECT DETAILS – WIND FARMS

	Namas Wind Farm	Zonnequa Wind Farm
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Area of project site	~5092ha (4 affected properties)	~4434ha (2 affected properties)
Area of development footprint	~35.46ha	~39.57ha
Contracted capacity	up to 140MW	up to 140MW
Number of turbines	up to 43	up to 56
Hub height	up to 130m	up to 130m
Tip height	up to 205m	up to 205m
On-site facility substation size	150m x 150m	150m x 150m
Access roads	~8m in width	~8m in width

8

### PROJECT DETAILS – ASSOCIATED GRID INFRASTRUCTURE

	Namas Wind Farm – associated grid infrastructure	Zonnequa Wind Farm – associated grid infrastructure
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Grid connection	Existing Gromis Substation, approx. 26km north of the wind farm	Existing Gromis Substation, approx. 16km north of the wind farm
Grid connection solution	Double-Circuit power line and collector substation assessed as a 300m power line corridor	Double-Circuit power line and collector substation assessed as a 300m power line corridor
Power line capacity	132kV	132kV
Collector substation size	150m x 150m	150m x 150m
Collector substation capacity	22/132kV or 33/132kV	22/132kV or 33/132kV

9

### WIND FARM INFRASTRUCTURE

- » Concrete turbine foundations & hardstand areas
- » Temporary laydown areas, including storage and assembly areas
- » Internal cabling between the turbines
- » Temporary concrete batching plant
- » Operation & Maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop & visitors centre.



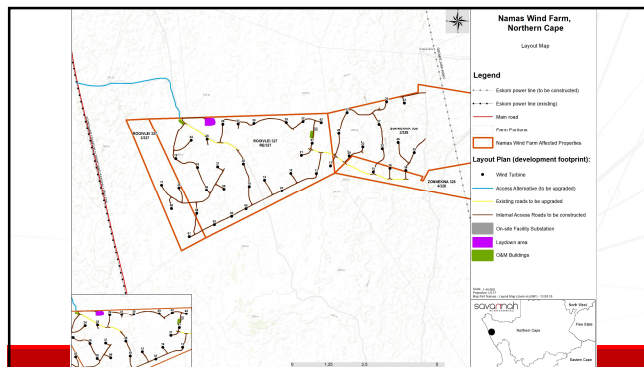
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### GRID INFRASTRUCTURE

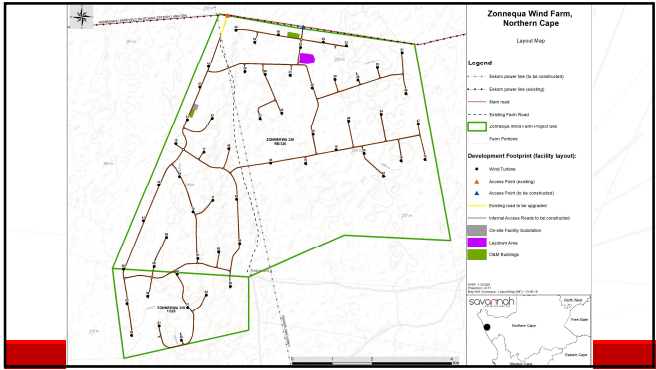
- » Access roads/tracks for construction and maintenance of power line and collector substation
- » Pylon foundations
- » Power line towers (pylons)
- » Collector substation foundation
- » Limited offices or buildings for the operation and management of the collector substation



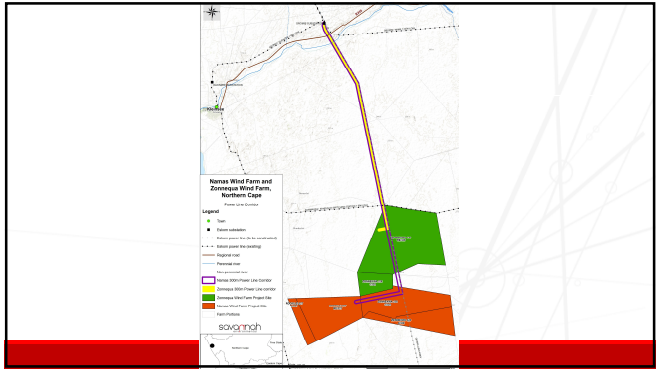
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12





13



14

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Activities



- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations
- » Construction of turbines
- » Installation of internal cabling
- » Construction of on-site substation
- » Temporary infrastructure

15

### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Activities


- » Operation of the turbines (rotation of the blades)
- » Maintenance activities
- » Night time lighting of the facility

16

### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Construction Activities


- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations (incl. pylon foundations)
- » Construction of collector substation
- » Construction of power line
- » Temporary infrastructure



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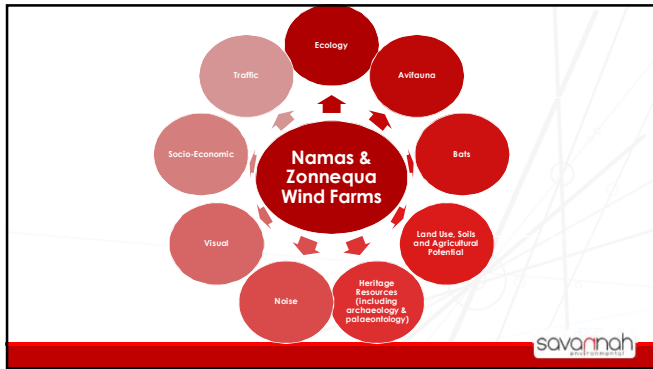
### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Operation Activities

- » Operation of the associated power infrastructure
- » Maintenance activities
- » Night time lighting of the collector substation



18





19

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Impacts

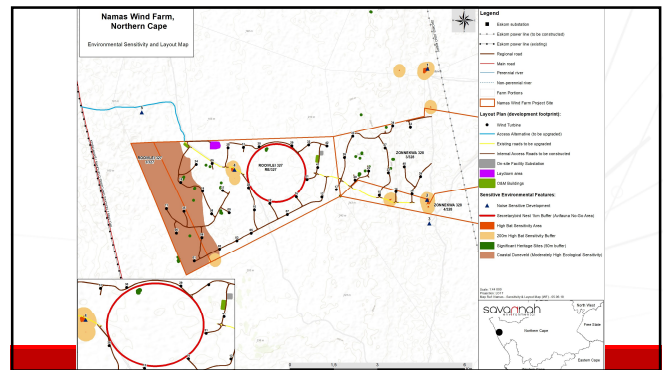
- » Environmental impacts: associated with construction activities within the development footprint
  - \* Loss or modification of intact vegetation
  - \* Threats to biodiversity and ecological processes (i.e. CBA and ESA)
  - \* Impacts to fauna and birds (e.g. direct mortality and loss of habitat)
  - \* Soil erosion (i.e. wind erosion)
  - \* Destruction of heritage sites/material
  - \* Noise and vibration
  - \* Nuisance impacts (i.e. dust)
  - \* Social impacts – visual, residents, socio-economic and economic benefits

20

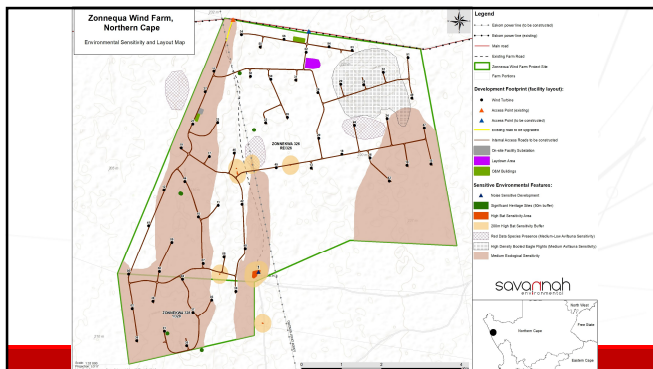
### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Impacts

- » Environmental impacts: associated with operation phase activities within the development footprint to be managed through the EMPr
  - \* Visual impacts – visibility of the wind turbines
  - \* Noise impacts
  - \* Avian/bat mortality resulting from collisions with infrastructure
  - \* Social impact/benefit – local residents, property value, socio-economic benefits

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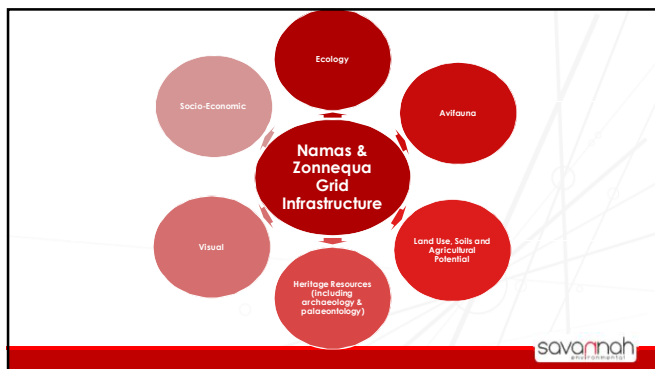


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### WIND FARM - RESULTS

- » No fatal flaws identified
- » Sensitive environmental features have been avoided
- » Majority of the impacts will be of a medium to low significance
- » High visual impact due to visibility of the turbines – cannot be mitigated
- » All other impacts can be mitigated to acceptable levels
- » Development footprints are considered acceptable within the proposed project sites

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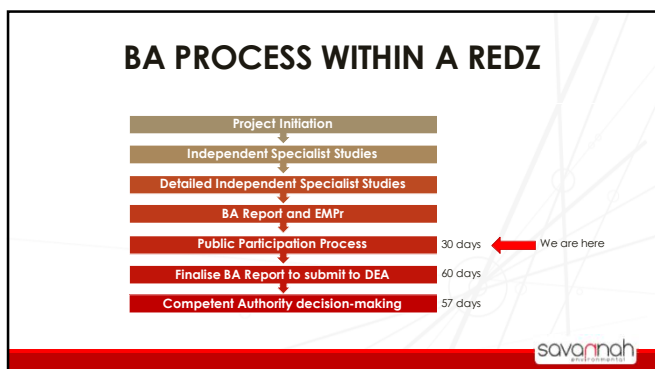


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### EIA PROCESS

- » **Environmental Authorisation (EA)** in terms of NEMA & the EIA Regulations
- » National Department of Environmental Affairs (DEA) is the competent authority (i.e. decision-maker)
- » Northern Cape Department of Environment and Nature Conservation (DENC) is the commenting authority
- » Basic Assessment (BA) process being undertaken
- » Basic Assessment process within the REDZ runs for a total of 147 days
  - \* 90 days - BA process
  - \* 57 days - competent authority decision-making

26



27

### WAY FORWARD – WIND FARMS

- » BA Reports Review period: **24 October 2018 – 23 November 2018**.
- » Written comments to be submitted by **23 November 2018**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval: December 2018.
- » Expected timing of decision: February 2019.

28

### WAY FORWARD – GRID INFRASTRUCTURE

- » Undertake and complete the detailed independent **specialist studies**.
- » Compile **BA reports** for the grid infrastructure.
- » Notify I&APs of the availability of the BA reports for review.
- » Make the BA reports available for a **30-day review period**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval.
- » Expected timing of report availability: TBC.

29

### PLEASE DIRECT COMMENTS TO:

**Nicolene Venter: Savannah Environmental**

t: +27 (0)11 656 3237  
 f: +27 (0)86 684 0547  
 e: publicprocess@savannahsa.com  
 w: www.savannahsa.com

o: First Floor, Block 2, 5 Woodlands Drive Office Park  
 Cnr Woodlands Drive & Western Service Road  
 Woodmead, 2191

30

LOCAL AUTHORITY:  
NAMA KHOI LOCAL MUNICIPALITY

**BASIC ASSESSMENT AND PUBLIC PARTICIPATION  
PROCESS  
for the  
NAMAS AND ZONNEQUA WIND FARMS, ASSOCIATED  
INFRASTRUCTURE AND POWER LINE CORRIDOR NEAR  
KLEINSEE, NORTHERN CAPE PROVINCE**

**Nama Khoi Local Municipality**

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**NOTES OF FOCUS GROUP MEETING  
HELD ON TUESDAY, 13 NOVEMBER 2018  
VENUE: Blue Diamond Lodge, Springbok**

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**Notes for the Record prepared by:**

Nicolene Venter

**Savannah Environmental (Pty) Ltd**

**E-mail: [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)**

***Please address any comments to Savannah Environmental at the above address***

## NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE AND POWER LINE CORRIDOR PROJECTS

**Venue:** Blue Diamond Lodge, Springbok

**Date:** Tuesday, 13 November 2018

**Time:** 14h00

### WELCOME AND INTRODUCTION

---

Ms Nicolene Venter, Public Participation Practitioner, Savannah Environmental, thanked the attendees for making time available for attending the Focus Group Meeting. After introducing herself and her role, she requested the project team and the attendance to introduce themselves.

### MEETING ATTENDEES

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Name	Organisation	Position
Cllr Paulus van Reenen	Nama Khoi Local Municipality	Councillor: Ward 8
Ms Laura Diergaardt		Ward Committee Member
Ms Elmarie Julie		Ward Committee Member
Mr Dominic Bugan	Corporate Governance, Human Settlements and Traditional Affairs	Community Development Worker:
Ms Tamsin Sheard	Developer	Genesis Eco Energy
Ms Sonia Mischczak	Developer	Atlantic Renewable Energy Partners
Ms Lisa Opperman	Savannah Environmental	Environmental Assessment Practitioner
Ms Nicolene Venter		Public Participation & Social Consultant

### APOLOGIES

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None received.

#### **Attendance record attached as Appendix A**

Ms Venter requested from the attendees in which languages they would prefer the information in the presentation to be presented in and it was agreed that Ms Opperman will present the information in Afrikaans.

### BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECTS

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Two 140MW wind farms are proposed to be developed on adjacent sites within the Springbok REDZ, approximately 20 km south of the town of Kleinsee in the Northern Cape. The wind farms are known as the **Namas Wind Farm** and the **Zonnequa Wind Farm** and are within the Nama Khoi Local Municipality and the Namakwa District Municipality. Suitable project sites for the development of

each of the wind farms has been identified within the Focus Area 8 of the Renewable Energy Development Zones (REDZ) which is known as the Springbok REDZ.

The farms Zonnekwa 328 and the Remaining Extent of the Farm Zonnekwa 326 are the properties identified for the **Zonnequa Wind Farm** and four (4) farms have been identified as suitable sites for the **Namas Wind Farm**: Zonnekwa 328, portions 3 and 4 and Rooivlei 327, remaining extent and portion 3.

The associated infrastructure for both of these wind farms will consist of:

- » concrete turbine foundations and hardstand areas;
- » temporary laydown areas, including storage and assembly areas;
- » internal cabling between the turbines;
- » temporary concrete batching plant; and
- » operation and maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop and visitors centre.

### **Grid Infrastructure**

The power generated by these two wind farms will feed into Eskom's existing grid network via a connection to the existing Gromis Substation located approximately 26km north of both the wind farm sites. The grid network will consist of a 132kV double-circuit power line and collector substation for each project and the proposed corridor for environmental assessment will be 300m wide. Should this corridor be found to be feasible, a registered servitude of 32m will be negotiated with the affected landowners.

It is the developer's intention to bid each wind farm under the Department of Energy's (DoE) Renewable Energy Independent Power Producer Procurement (REIPPP) Programme. The power generated from each facility will be sold to Eskom and will feed into the national electricity grid. The development of the facilities will also assist with the achievement of the electricity goals as set out in the Integrated Resources Plan (IRP).

### **Environmental Impacts as documented in the Basic Assessment Reports**

Ms Lisa Opperman informed the attendees that the environmental studies conducted for the Namas Wind Farm and Zonnequa Wind Farm are:

- Ecology;
- Avifauna;
- Bats;
- Land Use, Soils and Agricultural Potential;
- Heritage (including archaeology and palaeontology);
- Noise;
- Visual;
- Socio-economic; and
- Traffic

No Fatal flaws were identified, and sensitive environmental features have been taken into account with the design layouts of both the wind farms and are therefore avoided.

The studies also indicated that the majority of the impacts will be of a medium to low significance although the visual impact would be high due to the flat terrain. This impact cannot be mitigated. All other environmental impacts can be mitigated to an acceptable level.

**Copy of presentation attached as Appendix B.**

## DISCUSSION SESSION

Question / Comment	Response
<p>Cllr Van Reenen informed the meeting attendees of their experience with the Juwi wind farm project (Kap Vley), and another project, just outside Springbok believed to be known as Platvlei, which were presented in July 2017 to the Council and since the presentation of the projects no further communication or information was received.</p>	<p>Ms Lisa Opperman confirmed that the Kap Vley Wind Farm was granted Environmental Authorisation (EA).</p>
<p>Cllr Van Reenen stated, for information purposes, that although Kap Vley is privately owned, it falls under the jurisdiction of the Nama Khoi Local Municipality. Community members are raising questions which he cannot respond to i.e. why more attention is given to Kap Vley but not Platvlei, and these questions relate to human development and job opportunities, to which he does not have the answers.</p>	<p>Ms Nicolene Venter thanked the Councillor for the information provided and explained that neither Savannah Environmental nor the project development team can respond to these concerns as they are not involved in these projects.</p>
<p>Cllr Van Reenen informed the meeting attendees that the information regarding the wind farm projects, as presented, is noted and that all aspects of the environment have been well researched, and he thanked Savannah Environmental for sharing the information with them. The research that was done in terms of the Secretary Bird is proof of the level of assessment done.</p>	<p>Ms Opperman thanked the Councillor for the confirmation.</p>
<p>Cllr Van Reenen expressed the hope and trust that with the work done for these proposed projects that the outcome will be positive as it will be to the benefit of the communities in the area.</p>	<p>Ms Venter thanked the Councillor for the positive inputs.  Ms Opperman added that in terms of the benefits to the communities, one of the</p>

	<p>conditions prescribed by the Department of Energy for Independent Power Producers (IPPs) is that a percentage of the revenue generated from the wind farms need to be invested in communities within a 50km radius of the project sites. For this, a Trust will be established in co-operation with the Local Municipality, community representatives and the developer to assist with community upliftment within the relevant areas.</p> <p>In terms of job opportunities, it is envisaged that over the 2-year construction period there will be up to 400 job opportunities and during the 20 to 25 year operations period there will be approximately 35 permanent staff employed. Ms Opperman also informed the attendees that skills training / development forms part of the bidding process and that there will be opportunities for local procurement i.e. construction material.</p> <p>In addition, Ms Tamsin Sheard informed the attendees that as part of the Environmental Management Plan (EMPr) there are measures and procedures that would be followed in terms of sourcing local community members for work opportunities on the projects.</p>
<p>Cllr Van Reenen informed the project team that Councillors and Community Development Workers (CDWs) were not consulted regarding work opportunities on the Concordia Wind Farm and to avoid any possible conflict for these two proposed projects, he requested that the formal authority structures and municipal procedures form part of the employment process.</p> <p>He further informed the project team that a CDW will be appointed in Kleinsee which would make communication with the Kleinsee community easier.</p>	<p>Ms Opperman thanked the Councillor for the information regarding previous experience and said that consultation prior to construction will take place with the Nama Khoi Local Municipality.</p> <p>The information regarding the appointment of a CDW in Kleinsee is noted.</p>
<p>Mr Dominic Bugan informed the project team that there are local construction businesses that would be able to provide services and/or materials to the developer.</p>	<p>Ms Opperman thanked Mr Bugan for the information and said that it is important that local businesses make themselves known to the appointed contractor once the project starts.</p>



<p>Cllr Van Reenen expressed his concern that he hopes that these proposed developments, once its lifespan is over, do not follow the same path as that of De Beers mine. Although De Beers provided financial support for upgrading certain infrastructure in Kleinsee, the Local Municipality determined that it would not be sufficient to attend to all the upgrading that is needed. As an example, it was mentioned that the clinic is ill equipped.</p>	<p>Ms Opperman acknowledged the concerns raised, especially the impacts that could be associated once the project is decommissioned. However, as technology improves, the project's lifespan might be able to be extended after 20 years of operation.</p>
<p>Mr Bugan informed the meeting attendees that there are lots of social issues in the communities and urged the project team to please ensure that only local community members are used for the employment requirements on the project.</p>	<p>Ms Opperman confirmed that a Socio-Economic Impact Assessment has been conducted and urged Mr Bugan to read the Report as it includes information on the current social status of the area and also provides recommendations as to how these issues must be considered with the development of the two proposed wind farms.</p>

## **WAY FORWARD AND CLOSURE**

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In terms of the wind farms, Ms Opperman reminded the attendees that the Basic Assessment Reports' comment and review period started on the 24<sup>th</sup> of October 2018 and will end on the 23<sup>rd</sup> of November 2018. The attendees were requested that should they have any additional comments which were not discussed at the Focus Group Meeting, to please ensure that they reach the public participation office by the 23<sup>rd</sup> of November 2018. All comments raised during the public participation process will be included in the final Basic Assessment Reports that will be submitted to the Department of Environmental Affairs (DEA) by early December 2018 for decision-making.

It is envisaged that the DEA will issue their decision in February 2019.

In terms of the Grid Connection, the attendees were informed that:



- Basic Assessment Processes will be undertaken for the grid infrastructure associated with the wind farm, and that the detailed independent specialist studies will be completed, after which;
- the Basic Assessment Reports (BARs) will be drafted;
- Interested and Affected Parties (I&APs) will be notified of the availability of the BARs for review;
- the BARs will be made available for a 30-day review period;
- all comments received during the BARs' review period will be included in the final BARs;
- the final BARs will be submitted to the DEA for approval; and
- the expected timeframe for the BARs will be communicated to registered I&APs.

Ms Venter thanked the attendees once again for their attendance and informed them not to hesitate to submit any further queries regarding the proposed developments to the Savannah Environmental public participation office.


The meeting closed at 11h45.


**ATTENDANCE REGISTER**

<b>Project</b>	Namas & Zonnequa Wind Farms		<b>Meeting</b>	Focus Group meeting with Nama Khoi Local Municipality
<b>Date</b>	13 November 2018	<b>Time</b>	14h00	<b>Venue</b> Chambers, Nama Khoi Local Municipality, 4 Namakwa Street, Springbok

	<b>Organization</b>	<b>Name &amp; Postal Address</b>	<b>Contact Details</b>	<b>Signature</b>
1	Savannah Environmental <b>Designation</b> Public Participation Consultant	Nicolene Venter First Floor, Block 2, 5 woodlands Drive Office Park, Woodmead	<b>Tel:</b> 011 656 2986 <b>Fax:</b> 086 684 0547 <b>Cell:</b> 083 377 9112 <b>Email:</b> nicolene@savannahsa.com	
2	Savannah Environmental <b>Designation</b> EAP	Lisa opperman First Floor, Block 2, 5 woodlands Drive Office Park, Woodmead	<b>Tel:</b> 011 656 2986 <b>Fax:</b> 086 684 0547 <b>Cell:</b> 083 377 9112 <b>Email:</b> lisa.0@savannahsa.com	
3	Nama Khoi Local Municipality <b>Designation</b> Ward 8 Councillor	Cill Paulus van Reenen Nama Khoi Local Municipality, 4 Namakwa Street, Springbok	<b>Tel:</b> <b>Fax:</b> <b>Cell:</b> 076-113-8491 <b>Email:</b> Paulus.vanreenen@namakhoi.gov.za	

Organization	Name & Postal Address	Contact Details	Signature
4 AEP Designation DEVELOPER	SONIA MUSZCZAK POBOX 51060 WATERFRONT 800Z	Tel: 021 418 2596 Fax: Cell: Email: SONIA@ATLANTICEP.COM	
5 Genesis Designation DEVELOPER	TAMSIIN SHEARD 39 DE VILLIERS RD KONNETTIP CT	Tel: 0832512798 Fax: Cell: Email: tamsiin.sheard@genesis-eco.com	
6 Nama-Khoi CDW Designation WYK 8	Laura-Diengmarak Posbus 03, Komanggas 8242	Tel: 027-8211800 (W) Fax: 027-8211202 Cell: 072 0928 2578 Email:	
7 Nama-Khoi Wykstonite Designation WYK: 8	Elmaire Julie Pebus 99, Buffelsrivier 8251	Tel: Fax: Cell: 0724515115 Email:	

8	Organization	Name & Postal Address	Contact Details	Signature
	RAMASDIRS	PAULUS VAN KEENEN POBBUS 306 KOMARAGAS	Tel: 0278211574 Fax: - Cell: 0761138491 Email: paulus.van.keenen.@gmail.com khorqouza	
	Designation			
	NAMA KATO			


9	Organization	Name & Postal Address	Contact Details	Signature
	GD-IN	Dominic Bugan P.O BOX 05 BUFFELSRIVER	Tel: Fax: Cell: 074 4 22 4205 Email: dbugan55@gmail.com	
	Designation			
	COGHSTA			

10	Organization	Name & Postal Address	Contact Details	Signature
			Tel: Fax: Cell: Email:	
	Designation			

11	Organization	Name & Postal Address	Contact Details	Signature
			Tel: Fax: Cell: Email:	
	Designation			

# NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE, NORTHERN CAPE PROVINCE

Key Stakeholder Focus Group Meetings  
13 – 14 November 2018



1

## MEETING AGENDA


1. Welcome & introduction
2. Purpose of the Meeting
3. Scope of works
4. Project Overview
5. Overview of BA Process
6. Way forward



2

## PURPOSE OF THE MEETING


- » Provide I&APs with an overview of:
  - \* Namas Wind Farm and associated infrastructure
  - \* Zonnequa Wind Farm and associated infrastructure
- » Explain the **Basic Assessment (BA) & Public Participation** process(es) being undertaken
- » Present the findings of the **BA Reports**
- » Provide I&APs the opportunity to seek clarity regarding the projects
- » Opportunity to provide valuable input into/to inform the BA processes
- » Obtain and record comments for inclusion in the **Final BA Reports** to be submitted to DEA



3

## SCOPE OF WORKS


- » Assessment of the environmental and social impacts
- » Recommendation of appropriate mitigation measures
- » Studies include:
  - \* BA for the Namas Wind Farm (only the facility)
  - \* BA for the Namas Wind Farm associated grid infrastructure (incl. collector substation and power line)
  - \* BA for the Zonnequa Wind Farm (only the facility)
  - \* BA for the Zonnequa Wind Farm associated grid infrastructure (incl. collector substation and power line)



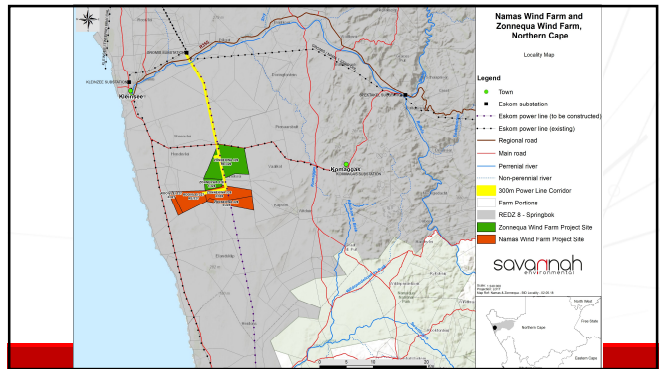
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## PROGRESS UPDATE

- » BAs for the Namas Wind Farm and Zonnequa Wind Farm (facilities only) – have been undertaken, reports are currently available for review and comment
- » BAs for the associated grid infrastructure – still underway



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6

### DEVELOPMENT WITHIN A REDZ

- » REDZ - Renewable Energy Development Zone
- » Areas of strategic importance for large scale wind and solar photovoltaic development in terms of Strategic Integrated Project 8
- » Significant impacts on the natural environment are limited and socio-economic benefits to the country are enhanced
- » Shortened timeframe in terms of the EIA Regulations, 2014 (as amended), prescribed timeframes
- » Project location – Springbok REDZ



7

### PROJECT DETAILS – WIND FARMS

	Namas Wind Farm	Zonnequa Wind Farm
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Area of project site	~5092ha (4 affected properties)	~4434ha (2 affected properties)
Area of development footprint	~35.46ha	~39.57ha
Contracted capacity	up to 140MW	up to 140MW
Number of turbines	up to 43	up to 56
Hub height	up to 130m	up to 130m
Tip height	up to 205m	up to 205m
On-site facility substation size	150m x 150m	150m x 150m
Access roads	~8m in width	~8m in width

8

### PROJECT DETAILS – ASSOCIATED GRID INFRASTRUCTURE

	Namas Wind Farm – associated grid infrastructure	Zonnequa Wind Farm – associated grid infrastructure
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Grid connection	Existing Gromis Substation, approx. 26km north of the wind farm	Existing Gromis Substation, approx. 16km north of the wind farm
Grid connection solution	Double-Circuit power line and collector substation assessed as a 300m power line corridor	Double-Circuit power line and collector substation assessed as a 300m power line corridor
Power line capacity	132kV	132kV
Collector substation size	150m x 150m	150m x 150m
Collector substation capacity	22/132kV or 33/132kV	22/132kV or 33/132kV



9

### WIND FARM INFRASTRUCTURE

- » Concrete turbine foundations & hardstand areas
- » Temporary laydown areas, including storage and assembly areas
- » Internal cabling between the turbines
- » Temporary concrete batching plant
- » Operation & Maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop & visitors centre.



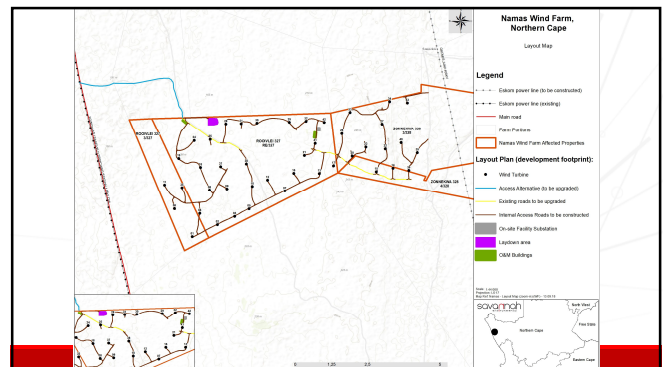
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### GRID INFRASTRUCTURE

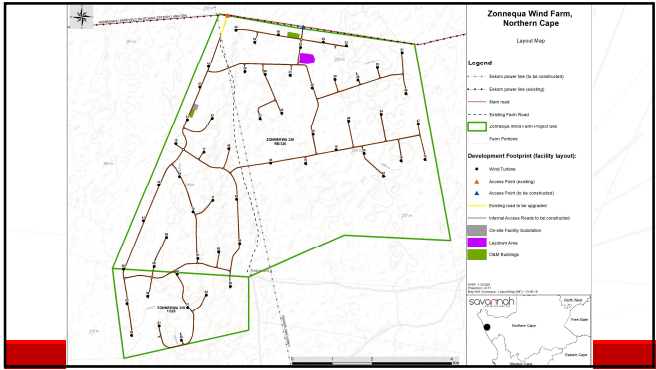
- » Access roads/tracks for construction and maintenance of power line and collector substation
- » Pylon foundations
- » Power line towers (pylons)
- » Collector substation foundation
- » Limited offices or buildings for the operation and management of the collector substation



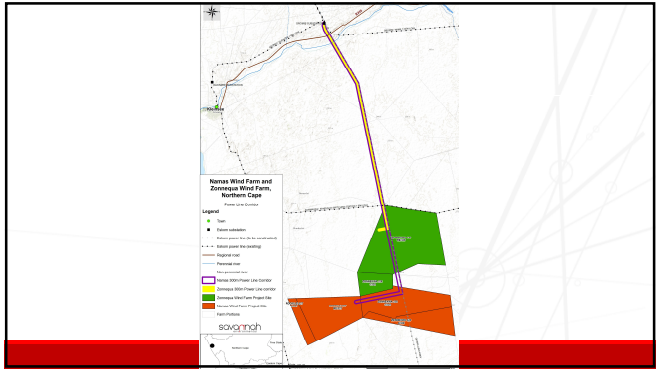
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### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Activities



- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations
- » Construction of turbines
- » Installation of internal cabling
- » Construction of on-site substation
- » Temporary infrastructure

15

### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Activities


- » Operation of the turbines (rotation of the blades)
- » Maintenance activities
- » Night time lighting of the facility

16

### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Construction Activities


- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations (incl. pylon foundations)
- » Construction of collector substation
- » Construction of power line
- » Temporary infrastructure



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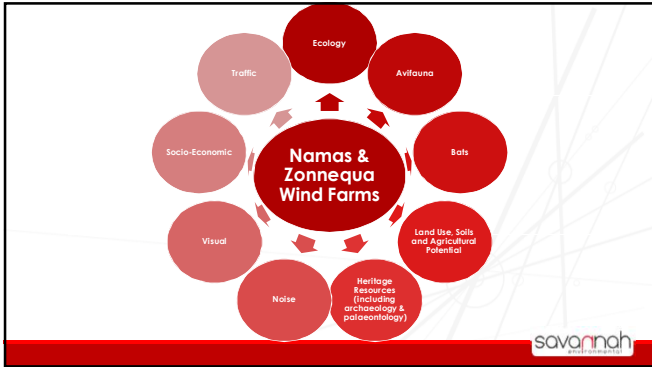
### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Operation Activities

- » Operation of the associated power infrastructure
- » Maintenance activities
- » Night time lighting of the collector substation



18





19

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Impacts

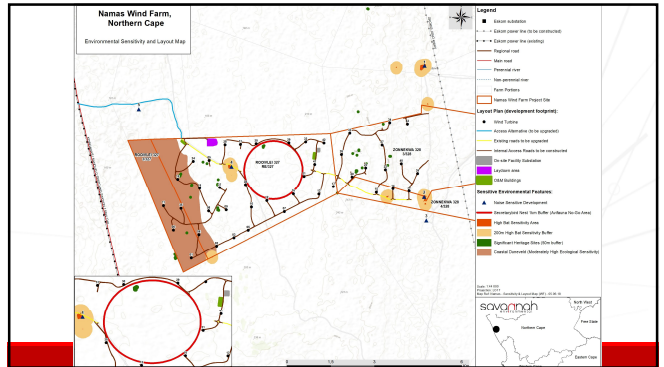
- » Environmental impacts: associated with construction activities within the development footprint
  - \* Loss or modification of intact vegetation
  - \* Threats to biodiversity and ecological processes (i.e. CBA and ESA)
  - \* Impacts to fauna and birds (e.g. direct mortality and loss of habitat)
  - \* Soil erosion (i.e. wind erosion)
  - \* Destruction of heritage sites/material
  - \* Noise and vibration
  - \* Nuisance impacts (i.e. dust)
  - \* Social impacts – visual, residents, socio-economic and economic benefits

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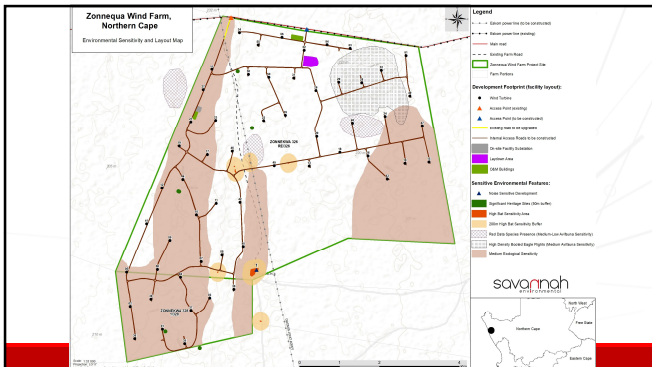
### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Impacts

- » Environmental impacts: associated with operation phase activities within the development footprint to be managed through the EMPr
  - \* Visual impacts – visibility of the wind turbines
  - \* Noise impacts
  - \* Avian/bat mortality resulting from collisions with infrastructure
  - \* Social impact/benefit – local residents, property value, socio-economic benefits

21



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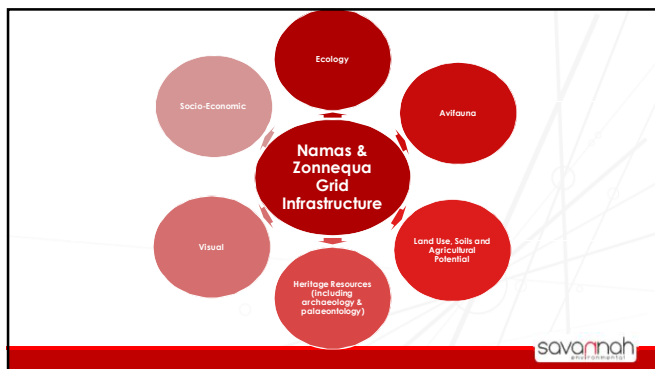


23

### WIND FARM - RESULTS

- » No fatal flaws identified
- » Sensitive environmental features have been avoided
- » Majority of the impacts will be of a medium to low significance
- » High visual impact due to visibility of the turbines – cannot be mitigated
- » All other impacts can be mitigated to acceptable levels
- » Development footprints are considered acceptable within the proposed project sites

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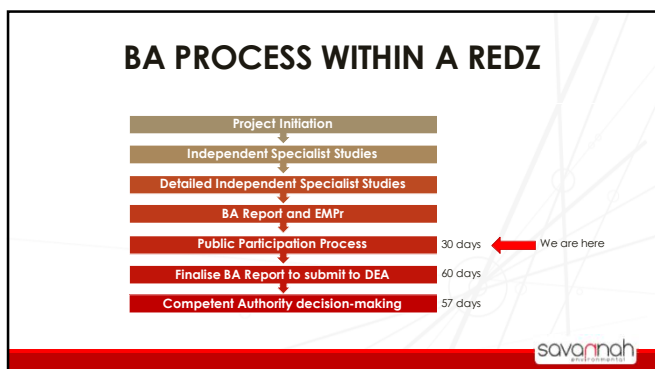


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### EIA PROCESS

- » **Environmental Authorisation (EA)** in terms of NEMA & the EIA Regulations
- » National Department of Environmental Affairs (DEA) is the competent authority (i.e. decision-maker)
- » Northern Cape Department of Environment and Nature Conservation (DENC) is the commenting authority
- » Basic Assessment (BA) process being undertaken
- » Basic Assessment process within the REDZ runs for a total of 147 days
  - \* 90 days - BA process
  - \* 57 days - competent authority decision-making

26



27

### WAY FORWARD – WIND FARMS

- » BA Reports Review period: **24 October 2018 – 23 November 2018**.
- » Written comments to be submitted by **23 November 2018**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval: December 2018.
- » Expected timing of decision: February 2019.

28

### WAY FORWARD – GRID INFRASTRUCTURE

- » Undertake and complete the detailed independent **specialist studies**.
- » Compile **BA reports** for the grid infrastructure.
- » Notify I&APs of the availability of the BA reports for review.
- » Make the BA reports available for a **30-day review period**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval.
- » Expected timing of report availability: TBC.

29

### PLEASE DIRECT COMMENTS TO:

**Nicolene Venter: Savannah Environmental**

t: +27 (0)11 656 3237  
 f: +27 (0)86 684 0547  
 e: publicprocess@savannahsa.com  
 w: www.savannahsa.com

o: First Floor, Block 2, 5 Woodlands Drive Office Park  
 Cnr Woodlands Drive & Western Service Road  
 Woodmead, 2191

30

MEETING WITH INTERESTED AND AFFECTED PARTIES  
DURING THE BASIC ASSESSMENT REPORT'S REVIEW  
AND COMMENT PERIOD

**Power Line Infrastructure was presented and  
discussed at the meetings held for the Wind Energy  
Facility**

# COMMUNITY REPRESENTATIVES

**BASIC ASSESSMENT AND PUBLIC PARTICIPATION  
PROCESS  
for the  
NAMAS AND ZONNEQUA WIND FARMS, ASSOCIATED  
INFRASTRUCTURE AND POWER LINE CORRIDOR NEAR  
KLEINSEE, NORTHERN CAPE PROVINCE**

**Kleinsee Community Representatives**

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**NOTES OF FOCUS GROUP MEETING  
HELD ON WEDNESDAY, 14 NOVEMBER 2018  
VENUE: Houthoop Guest Farm, Kleinsee**

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**Notes for the Record prepared by:**

Nicolene Venter

**Savannah Environmental (Pty) Ltd**

**E-mail: [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)**

***Please address any comments to Savannah Environmental at the above address***

## NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE AND POWER LINE CORRIDOR PROJECTS

**Venue:** Houthoop Guest Farm, Kleinsee

**Date:** Wednesday, 14 November 2018

**Time:** 10h00

### WELCOME AND INTRODUCTION

---

Ms Nicolene Venter, Public Participation Practitioner, Savannah Environmental, thanked the attendees for making time available for attending the Focus Group Meeting. After introducing herself and her role, she requested the project team and the attendance to introduce themselves.

### MEETING ATTENDEES

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Name	Organisation	Position
Natalie Weyers	Strandveld Conservation Club & Private Business	Member Owner
Hannes Visser	Private Business	Owner
Kobus van der Merwe	Private Business (Restaurant & Accommodation)	Owner
Rodney Williams	Private	
Schalk van der Merwe	Diamond Coast Aquaculture	Owner
Donovan van Wyk	Kraai Enterprizes	Owner
Carla van Wyk	Kraai Enterprizes	Owner
Gino Esterhuizen	Private Business	Owner
Victor Cloete	Kleinsee Community Forum	Chairperson
Cyril Hollenbacht	Kleinsee Community Forum	Ward Committee Member
Quiry Snethlage	Sandveld Conservation Club	Chairperson
Tamsin Sheard	Developer	Genesis Eco Energy
Sonia Miszczak	Developer	Atlantic Renewable Energy Partners
Lisa Opperman	Savannah Environmental	Environmental Assessment Practitioner
Nicolene Venter		Public Participation & Social Consultant

### APOLOGIES

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Paul Vermeulen, Trainee Estate Agent, ERA Estate Agency, Kleinsee

**Attendance record attached as Appendix A**

## **BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECTS**

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In the absence of projection facilities, Lisa Opperman presented the project information by referring the attendees to the Background Information Document and the environmental sensitivity and locality maps made available to the attendees.

She informed the attendees that the project consist of two 140MW wind farms proposed to be developed on adjacent sites within the Springbok REDZ, approximately 20 km south of the town of Kleinsee in the Northern Cape. The wind farms are known as the **Namas Wind Farm** and the **Zonnequa Wind Farm** and are within the Nama Khoi Local Municipality and the Namakwa District Municipality. Suitable project sites for the development of each of the wind farms has been identified within the Focus Area 8 of the Renewable Energy Development Zones (REDZ) which is known as the Springbok REDZ.

The farms Zonnekwa 328 and the Remaining Extent of the Farm Zonnekwa 326 are the properties identified for the **Zonnequa Wind Farm** and four (4) farms have been identified as suitable sites for the **Namas Wind Farm**: Zonnekwa 328, portions 3 and 4 and Rooivlei 327, remaining extent and portion 3.

The associated infrastructure for both these wind farms will consist of:

- » concrete turbine foundations and hardstand areas;
- » temporary laydown areas, including storage and assembly areas;
- » internal cabling between the turbines;
- » temporary concrete batching plant; and
- » operation and maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop and visitors centre.

### **Grid Infrastructure**

The power generated by these two wind farms will feed into Eskom's existing grid network via a connection to the existing Gromis Substation located approximately 26km north of both the wind farm sites. The grid network will consist of a double-circuit 132kV power line and collector substation for each project and the proposed corridor for environmental assessment will be 300m wide. Should this corridor be found to be feasible, a registered servitude of 32m will be negotiated with the affected landowners.

It is the developer's intention to bid each wind farm under the Department of Energy's (DoE) Renewable Energy Independent Power Producer Procurement (REIPPP) Programme. The power generated from each facility will be sold to Eskom and will feed into the national electricity grid. The development of the facilities will also assist with the achievement of the electricity goals as set out in the Integrated Resources Plan (IRP).

### **Environmental Impacts as documented in the Basic Assessment Reports**

Ms Lisa Opperman informed the attendees that the environmental studies conducted for the Namas Wind Farm and Zonnequa Wind Farm are:

- Ecology;
- Avifauna;
- Bats;
- Land Use, Soils and Agricultural Potential;
- Heritage (including archaeology and palaeontology);
- Noise;
- Visual;
- Socio-economic; and
- Traffic

No Fatal flaws were identified, and sensitive environmental features have been taken into account with the design layouts of both the wind farms and are therefore avoided.

The studies also indicated that the majority of the impacts will be of a medium to low significance although the visual impact would be high due to the flat terrain. This impact cannot be mitigated. All other environmental impacts can be mitigated to an acceptable level.

**Copy of presentation attached as Appendix B.**

**DISCUSSION SESSION**

Question / Comment	Response
Natalie Weyers enquired whether an impact assessment regarding the possible degradation of the roads has been done.	Lisa Opperman responded that a Traffic Impact Assessment has been undertaken by a traffic specialist and it was found that as the roads have been constructed to accommodate vehicles associated with De Beers Mine, no upgrade is needed for the trucks transporting the equipment for the wind farm developments to the respective project sites.
Natalie Weyers enquired whether the wind turbines will be transported from the Port of Saldanha.	Lisa Opperman replied that the equipment will be transported from the Port of Saldanha and that various route options were considered, and are included in the Traffic Impact Assessment Report of the Basic Assessment Reports for the projects.
Quiryn Snethlage enquired whether an Avifauna study was conducted.	Lisa Opperman responded that an Avifauna Impact Assessment was conducted, and the findings and mitigation measures can be found in the Basic Assessment Reports for the projects.
Natalie Weyers asked for clarification purposes, what is meant by O&M buildings.	Lisa Opperman replied that it is the term used for the buildings for the operational and maintenance (O&M) phases of the project.



<p>Natalie Weyers asked for clarification purposes, what is means by lay-down areas.</p>	<p>Lisa Opperman replied that it is the area identified for the storage of construction equipment and material during the construction phase.</p>
<p>Natalie Weyers asked how the significant heritage sites were determined.</p>	<p>Lisa Opperman responded that the layout plans of the projects were provided to the Heritage Specialist who undertook fieldwork and ground-truthed the heritage sites present within the project sites. Small artefacts were found in pockets and a buffer of 50m has been allocated to these identified sites to avoid any possible impacts during construction. The development footprints of the two projects avoid these areas.</p>
<p>Quiryn Snethlage mentioned that it is believed that with the various projects taking place in the area i.e. including the new 400kV power line and these two proposed wind farms, that there is no real benefit to the local communities in terms of employment and sub-contracting opportunities.</p>	<p>Tamsin Sheard responded that the local employment and sub-contracting would form a part of the construction phase and that local community members would play an important role. Once the main contractor has been appointed, local labour will be procured in collaboration with the Nama Khoi Local Municipality. Advertisements will also be placed inviting people to apply for various jobs. Sonia Mischczak added that a local community member will be appointed as a Community Liaison Officer for the projects.</p>
<p>Quiryn Snethlage enquired whether the Garies-Kommagas road will be tarred to accommodate the trucks transporting the heavy blades. It was also enquired whether the proposed Brazil temporary harbour has been considered to receive the material for the projects.</p>	<p>Lisa Opperman replied that the Garies-Kommagas road will not be tarred.  Only existing infrastructures have been considered for receiving and transporting of materials.</p>
<p>Natalie Weyers informed the project team that pot holes occurred in the resurfaced Kommagas-Kleinzee road.</p>	<p>Sonia Mischczak informed the attendees that the roads will be kept to their current conditions with the construction of the projects. However, should the roads be in such a state that it will compromise the integrity of the equipment, the surfacing of the roads will be considered.</p>
<p>Mr Van der Merwe commented that once the construction is completed, then the developer will leave and they, as community members, will sit with the consequences.</p>	<p>Lisa Opperman acknowledged the comment made regarding the possible negative impact on the road infrastructure and requested the attendees to read the Traffic Impact Assessment Report where the traffic impacts</p>

<p>He raised the concern regarding the road infrastructure and enquired whether funds would be made available for rehabilitating the roads.</p>	<p>associated with the projects and the significance of the impacts are assessed and addressed.</p> <p>In terms of funds being made available to rehabilitate the roads, Sonia Mischczak reiterated that the roads will be left in the same condition they are found, if not better.</p>
<p>Quiry Snethlage commented that the reports referred to are generally scientific waffle and not written in layman's terms.</p>	<p>Lisa Opperman confirmed that an Executive Summary is included in the Basic Assessment Report which summarised the scientific findings. She informed the attendees that a copy of the Executive Summary will be distributed with the draft meeting notes.</p> <p><b>Post-Meeting note:</b> Executive Summary attached as <b>Appendix C</b> to this document.</p>
<p>Cllr Van Reenen reiterated the concern regarding the road conditions and that travelling on these roads is a challenge to the local community.</p> <p>He made reference to the De Beers mine who left the town of Kleinsee and it has become the responsibility of the Nama Khoi Local Municipality to maintain outdated infrastructures</p>	<p>Lisa Opperman informed the attendees that it is important that they refer to the Environmental Management Plan (EMPr) in which the mitigation measures are captured for the projects to ensure that the impacts are mitigated to acceptable levels. The EMPr informs the reader and the developer how negative impacts could be avoided or mitigated but also how positive impacts can be enhanced.</p>
<p>Cllr Van Reene informed the project team that there are a number of successful land claims, especially in Kommagas and enquired whether there are any land claims lodged against the properties earmarked for these proposed developments.</p>	<p>Sonia Mischczak replied that information regarding land claims was requested from the Department of Rural Development and Land Reform and the feedback received was that there are currently no land claims submitted against these properties.</p>
<p>Victor Cloete enquired where in the process these projects are.</p>	<p>Lisa Opperman replied that the projects are currently busy with the Basic Assessment processes in order to obtain Environmental Authorisation.</p>
<p>Victor Cloete enquired which communities would benefit from the proposed developments.</p>	<p>Lisa Opperman replied that all communities located within a 50km radius from the project sites stand in line to benefit from the proposed developments.</p> <p>Sonia Mischczak added that as part of the Social Development aspect as required by the Department of Energy for the companies bidding their projects, a certain percentage of the revenue needs to be allocated to social</p>

	development within the surrounding communities.
Gino Esterhuizen asked how big the work force will be during the construction phase.	Sonia Mischczak responded that it is envisaged that 300 – 400 workers will be required during the construction phase of the projects, and that it is important to note that no workers will be staying on site and that they will stay in town and be bussed in daily.
Quiry Snethlage enquired how many staff will be permanently employed, i.e. during the operation phase of the developments.	Lisa Opperman replied that it is envisaged that up to 30 people will be permanently employed. Sonia Mischczak added that depending on the operation of the wind farms, it could be 10 permanent staff members attending to the day-to-day operations of the wind farms.
Victor Cloete informed the project team that according to him, it seems that there will not be a lot of jobs at the end. He further said that they are looking forward to further discussions prior to the construction phase.	Sonia Mischczak acknowledged Mr Cloete's comment and confirmed that due process will be followed with the legal entities of the communities prior to the commencement of construction.
Victor Cloete enquired who are the partners in these developments, i.e. who will own the development.	Sonia Mischczak replied that the project is a partnership between Atlantic Renewable Energy Partners and Genesis Eco Energy Developments. They are the partners that will be bidding the projects to the Department of Energy as part of the REIPPP programme.
Mr Van der Merwe enquired whether the specialists took note of the Kleinsee airstrip.	Lisa Opperman responded that the project team is aware of the airstrip and that the Air Traffic and Navigation Services (ATNS) and the Civil Aviation Authority (SA CAA) are key stakeholders on these proposed projects and are being consulted as part of the process.
Mr Van der Merwe requested that the correspondence received regarding the land claims be provided to the community.	Sonia Mischczak informed the attendees that the correspondence would be made available as requested. Nicolene Venter confirmed that it will be included as an Appendix to the meeting notes. <b>Post-Meeting note:</b> The letter is attached as <b>Appendix D</b>
Victor Cloete informed the project team that to date there were a number of successful land claims and that the project team needs to be conscious of this fact.	Nicolene Venter acknowledged the information provided by Mr Cloete.
Cyril Hollenbacht informed the project team that it is his viewpoint that transformation first	Nicolene Venter acknowledged Mr Hollenbacht's input and responded that

needs to be dealt with before the team proceed with this proposed development.	transformation is a lengthy process and in the interim, proposed developments need to proceed.
Cllr Van Reenen mentioned that at the meetings held for the Concordia Solar PV project there was a lot of conflict regarding ownership of properties.	Nicolene Venter thanked the Councillor for the information and noted that the project team will take this matter into consideration for the proposed developments.
Gino Esterhuizen enquired how the developer will deal with injuries, especially serious injuries, occurring during the construction phase as there is not a hospital in Kleinsee or Komaggas and the nearest hospital is in Springbok.	Sonia Mischczak responded that there will be trained people with basic first aid skills available to deal with injuries.
Victor Cloete enquired when the development of the proposed projects will start.	Sonia Mischczak replied that there are not fixed timelines as the Department of Energy needs to announce the next bidding round as part of the REIPPP programme. Should these projects be successful, it is envisaged that the projects might commence in 5 to 6 years' time, however this is subject to change.

## WAY FORWARD AND CLOSURE

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In terms of the wind farms, Ms Opperman reminded the attendees that the Basic Assessment Reports' comment and review period started on the 24<sup>th</sup> of October 2018 and will end on the 23<sup>rd</sup> of November 2018. The attendees requested that should they have any additional comments which were not discussed at the Focus Group Meeting, to please ensure that they reach the public participation office by the 23<sup>rd</sup> of November 2018. All comments raised during the public participation process will be included in the final Basic Assessment Reports that will be submitted to the Department of Environmental Affairs (DEA) by early December 2018 for decision-making.

It is envisaged that the DEA will issue their decision in February 2019.

In terms of the Grid Connection, the attendees were informed that:

- Basic Assessment Processes will be undertaken for the grid infrastructure associated with the wind farms, and that the detailed independent specialist studies will be completed, after which;
- the Basic Assessment Reports (BARs) will be drafted;
- Interested and Affected Parties (I&APs) will be notified of the availability of the BARs for review;
- the BARs will be made available for a 30-day review period;
- all comments received during the BARs' review period will be included in the final BAR(s);
- the final BARs will be submitted to the DEA for approval; and
- the expected timeframe for the BARs will be communicated to registered I&APs.


Ms Venter thanked the attendees once again for their attendance and informed them not to hesitate to submit any further queries regarding the proposed developments to the Savannah Environmental public participation office.


The meeting closed at 11h20.


**ATTENDANCE REGISTER**


<b>Project</b>	Namas & Zonnequa Wind Farms		<b>Meeting</b>	Focus Group Meeting With Representatives	
<b>Date</b>	14 November 2018	<b>Time</b>	10h00	<b>Venue</b>	Hardoop Guest Farm, Cleve


*Khazene Community*


Organization	Name & Postal Address	Contact Details	Signature
1 Savannah Environmental <b>Designation</b> Public Participation Consultant	Nicolene Venter  First Floor Block 2, 5 Woodlands Drive office Park, Woodmead	Tel: 011 656 2986 Fax: 086 684 0547 Cell: 083 377 9112 Email: nicolene@savannahsa.com	

Organization	Name & Postal Address	Contact Details	Signature
2 Savannah Environmental <b>Designation</b> EAP	Lisa Opperman  First Floor Block 2, 5 Woodlands Drive office Park, Woodmead	Tel: 011 656 2986 Fax: 086 684 0547 Cell: 084 920 3111 Email: lisa.o@savannahsa.com	





Organization	Name & Postal Address	Contact Details	Signature
3 GENESU <b>Designation</b> DEVELOPER	TAMSIN SHEARD 39 de Villiers rd Kommegie CT	Tel: 083 251 2798 Fax: Cell: Email: tamsin.sheard@genesis-eco.com	

Organization	Name & Postal Address	Contact Details	Signature
4 AEP Designation DEVELOPER	SUNIA MIZOGAKI PO BOX 51060 WATERFRONT 8002	Tel: 021 418 2916 Fax: Cell: Email: SONIA@ATLANTICCP.COM	


Organization	Name & Postal Address	Contact Details	Signature
5 Private Business Strandveld Cons Club Designation Developer	Natalie Weyers P.O. Box 1001 Kleinsee 8282	Tel: 027 - 8770908 Fax: Cell: 073 5474 9148 Email: nats.weyers@gmail.com	


Organization	Name & Postal Address	Contact Details	Signature
6 Private Business Designation	Hannes Vigger PO Box 42 Kleinsee 8282	Tel: 027 - 8770039 Fax: Cell: 082 720 8884 Email: SUGANVISOR42@GMAIL.COM	

Organization	Name & Postal Address	Contact Details	Signature
7 Private Business Restaurant Accountants Designation	Wendy Meow PO Box 19 Whaling	Tel: 082 4612 819 Fax: Cell: 082 4612 819 Email: 256848@amh.com	

Organization	Name & Postal Address	Contact Details	Signature
8 PRIVATE Designation	R. Williams PO Box 118 Kleinsee 8282	Tel: 027 8770112 Fax: 0866476537 Cell: 0834419646 Email: <del>RWILLIAMS@NETACTIVE.COM</del> 1954 RD EMAIL.COM	
9 Diamond Coast Agriculture Designation	Schalke van der Merwe	Tel: 0734250156 Fax: Cell: Email: <del>Schalke@DiamondCoast.com</del> Schalke@vib.ingondjua.co.za	
10 KLAFFI ENTERPRISES Designation	Bonnavu - Carla VAN WYK P.O. Box 223 Kleinsee 8282	Tel: Fax: 072 476 2183 Cell: 073 155 8435 / 076 24467 Email: VANWYKDONI9@gmail.com	
11 Accommodation Hotel / Hostel Designation U.S.:	3 3rd Avenue Kleinsee P.O. Box 1032 Sea Point 5060 Cape Town	Tel: 083 3370644 / 082 4905017 Fax: Cell: 083 3370644 / 082 4905017 Email: anthingb@netactive.co.za	 U.C.



Organization	Name & Postal Address	Contact Details	Signature
12 Kleinzee Community Forum Chairperson	V. Cwete	Tel:	
		<del>Fax:</del> Victorc1oe1e728@gmail.com	
Cell: 0630419870			
Email: victorcloete@728			




Organization	Name & Postal Address	Contact Details	Signature
13 Kleinzee Com. Forum	C. Humberbach	Tel:	
		Fax:	
Cell: 071 7047318			
Email: Humberbach@outlook.com			


Organization	Name & Postal Address	Contact Details	Signature
14 Kleinzee Com. Forum		Tel:	
		Fax:	
Cell:			
Email:			

Organization	Name & Postal Address	Contact Details	Signature
15 Kleinzee Com. Forum		Tel:	
		Fax:	
Cell:			
Email:			

ATTENDANCE REGISTER

Project	Planning a Zoning Change WEF	Meeting	Focus Group Meeting: Community
Date	14 November 2018	Venue	Boardroom Guest Town Representatives

Organization	Name & Postal Address	Contact Details	Signature
1 Savannah ENV Designation Public Participation Practitioner	Nicoleene Ventel	Tel: 011 656 3237 Fax: Cell: 0933779112 Email: nicoleene@savannahenv.com	
2 Organization Designation	Marion Daniels	Tel: 0783736312 Fax: Cell: Email:	
3 Ward Committee Ward 8 - Komaggas Designation	Randica Milford P.O Box 114 Komaggas 8242	Tel: Fax: Cell: 0789768196 Email: randicam89@gmail.com	

Organization	Name & Postal Address	Contact Details	Signature
4 MAMA KHOI Designation RAASDID	PAULUS VAN REENEN POSBUS 306 KOMAGGAS 8242	Tel: 0279211514 Fax: / Cell: 0761138491 Email: paulus.vanreenen@nam9.khoi.gov.za	


Organization	Name & Postal Address	Contact Details	Signature
5 Designation		Tel: Fax: Cell: Email:	

Organization	Name & Postal Address	Contact Details	Signature
6 Designation		Tel: Fax: Cell: Email:	

Organization	Name & Postal Address	Contact Details	Signature
7 Designation		Tel: Fax: Cell: Email:	

# NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE, NORTHERN CAPE PROVINCE

Key Stakeholder Focus Group Meetings  
13 – 14 November 2018



1

## MEETING AGENDA


1. Welcome & introduction
2. Purpose of the Meeting
3. Scope of works
4. Project Overview
5. Overview of BA Process
6. Way forward



2

## PURPOSE OF THE MEETING


- » Provide I&APs with an overview of:
  - \* Namas Wind Farm and associated infrastructure
  - \* Zonnequa Wind Farm and associated infrastructure
- » Explain the **Basic Assessment (BA) & Public Participation** process(es) being undertaken
- » Present the findings of the **BA Reports**
- » Provide I&APs the opportunity to seek clarity regarding the projects
- » Opportunity to provide valuable input into/to inform the BA processes
- » Obtain and record comments for inclusion in the **Final BA Reports** to be submitted to DEA



3

## SCOPE OF WORKS


- » Assessment of the environmental and social impacts
- » Recommendation of appropriate mitigation measures
- » Studies include:
  - \* BA for the Namas Wind Farm (only the facility)
  - \* BA for the Namas Wind Farm associated grid infrastructure (incl. collector substation and power line)
  - \* BA for the Zonnequa Wind Farm (only the facility)
  - \* BA for the Zonnequa Wind Farm associated grid infrastructure (incl. collector substation and power line)



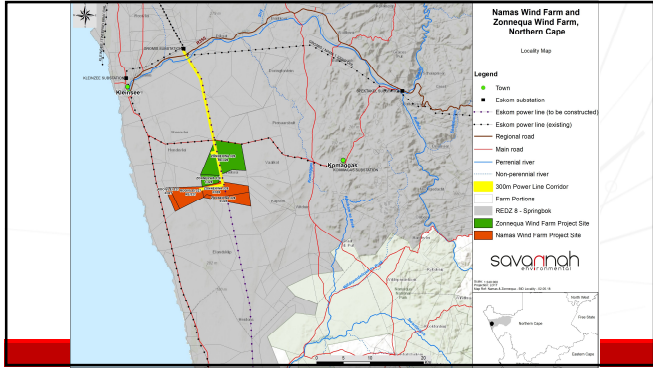
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## PROGRESS UPDATE

- » BAs for the Namas Wind Farm and Zonnequa Wind Farm (facilities only) – have been undertaken, reports are currently available for review and comment
- » BAs for the associated grid infrastructure – still underway



5



6

### DEVELOPMENT WITHIN A REDZ

- » REDZ - Renewable Energy Development Zone
- » Areas of strategic importance for large scale wind and solar photovoltaic development in terms of Strategic Integrated Project 8
- » Significant impacts on the natural environment are limited and socio-economic benefits to the country are enhanced
- » Shortened timeframe in terms of the EIA Regulations, 2014 (as amended), prescribed timeframes
- » Project location – Springbok REDZ



7

### PROJECT DETAILS – WIND FARMS

	Namas Wind Farm	Zonnequa Wind Farm
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Area of project site	~5092ha (4 affected properties)	~4434ha (2 affected properties)
Area of development footprint	~35.46ha	~39.57ha
Contracted capacity	up to 140MW	up to 140MW
Number of turbines	up to 43	up to 56
Hub height	up to 130m	up to 130m
Tip height	up to 205m	up to 205m
On-site facility substation size	150m x 150m	150m x 150m
Access roads	~8m in width	~8m in width

8

### PROJECT DETAILS – ASSOCIATED GRID INFRASTRUCTURE

	Namas Wind Farm – associated grid infrastructure	Zonnequa Wind Farm – associated grid infrastructure
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Grid connection	Existing Gromis Substation, approx. 26km north of the wind farm	Existing Gromis Substation, approx. 16km north of the wind farm
Grid connection solution	Double-Circuit power line and collector substation assessed as a 300m power line corridor	Double-Circuit power line and collector substation assessed as a 300m power line corridor
Power line capacity	132kV	132kV
Collector substation size	150m x 150m	150m x 150m
Collector substation capacity	22/132kV or 33/132kV	22/132kV or 33/132kV



9

### WIND FARM INFRASTRUCTURE

- » Concrete turbine foundations & hardstand areas
- » Temporary laydown areas, including storage and assembly areas
- » Internal cabling between the turbines
- » Temporary concrete batching plant
- » Operation & Maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop & visitors centre.



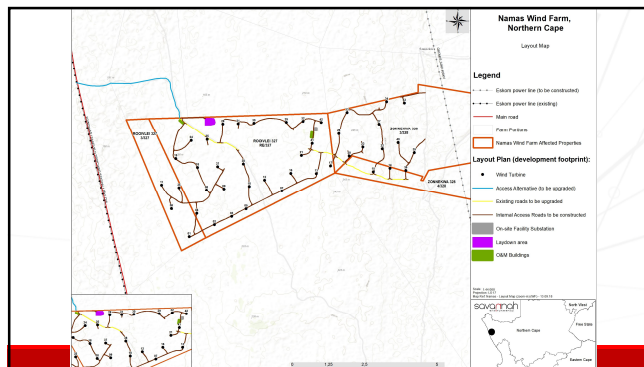
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### GRID INFRASTRUCTURE

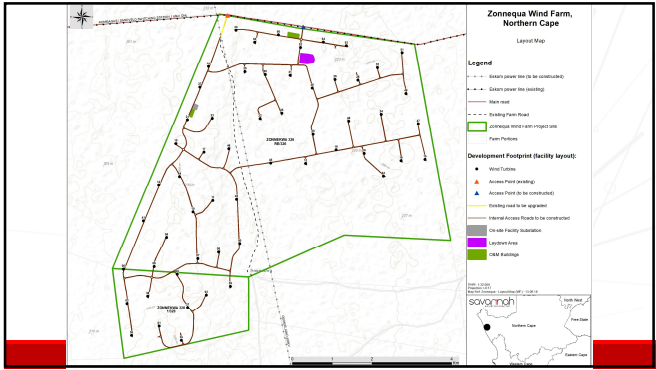
- » Access roads/tracks for construction and maintenance of power line and collector substation
- » Pylon foundations
- » Power line towers (pylons)
- » Collector substation foundation
- » Limited offices or buildings for the operation and management of the collector substation



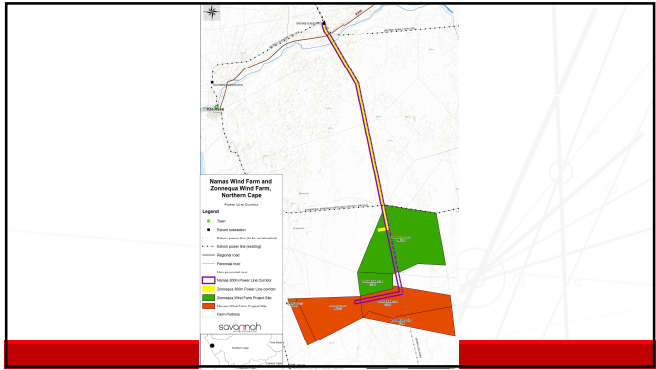
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14

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Activities



- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations
- » Construction of turbines
- » Installation of internal cabling
- » Construction of on-site substation
- » Temporary infrastructure

15

### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Activities


- » Operation of the turbines (rotation of the blades)
- » Maintenance activities
- » Night time lighting of the facility

16

### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Construction Activities


- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations (incl. pylon foundations)
- » Construction of collector substation
- » Construction of power line
- » Temporary infrastructure



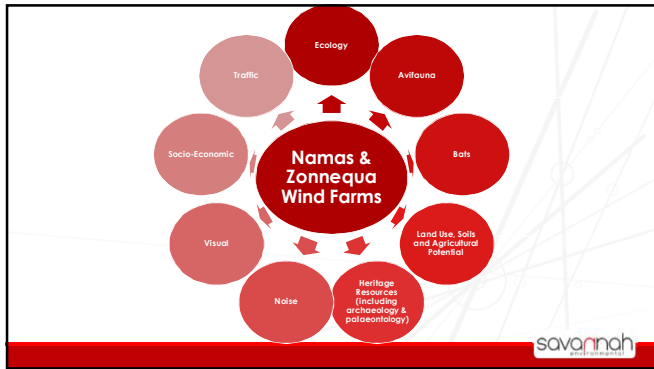
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### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Operation Activities

- » Operation of the associated power infrastructure
- » Maintenance activities
- » Night time lighting of the collector substation



18



19

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Impacts

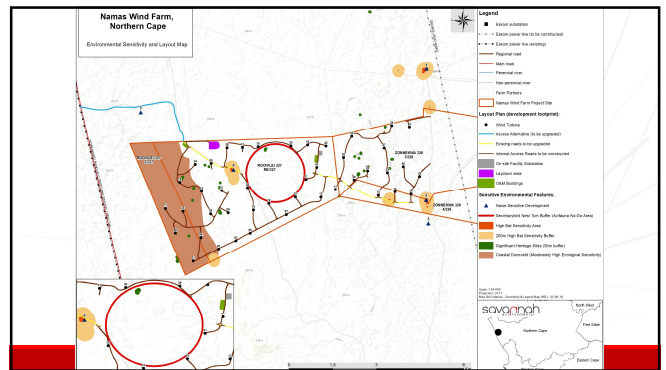
- » Environmental impacts: associated with construction activities within the development footprint
  - \* Loss or modification of intact vegetation
  - \* Threats to biodiversity and ecological processes (i.e. CBA and ESA)
  - \* Impacts to fauna and birds (e.g. direct mortality and loss of habitat)
  - \* Soil erosion (i.e. wind erosion)
  - \* Destruction of heritage sites/material
  - \* Noise and vibration
  - \* Nuisance impacts (i.e. dust)
  - \* Social impacts – visual, residents, socio-economic and economic benefits

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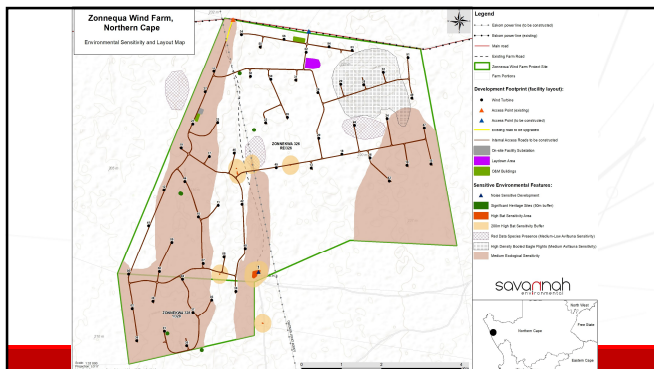
### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Impacts

- » Environmental impacts: associated with operation phase activities within the development footprint to be managed through the EMPr
  - \* Visual impacts – visibility of the wind turbines
  - \* Noise impacts
  - \* Avian/bat mortality resulting from collisions with infrastructure
  - \* Social impact/benefit – local residents, property value, socio-economic benefits

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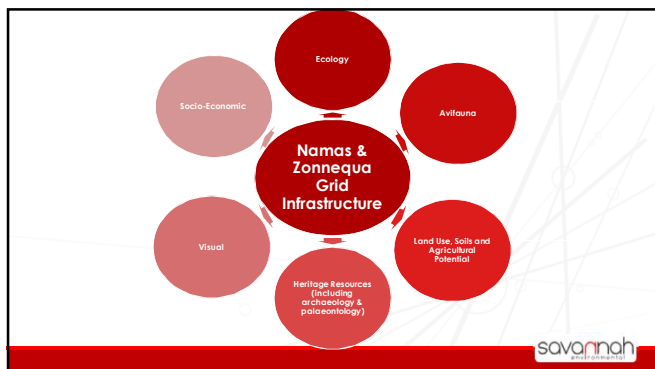


23

### WIND FARM - RESULTS

- » No fatal flaws identified
- » Sensitive environmental features have been avoided
- » Majority of the impacts will be of a medium to low significance
- » High visual impact due to visibility of the turbines – cannot be mitigated
- » All other impacts can be mitigated to acceptable levels
- » Development footprints are considered acceptable within the proposed project sites

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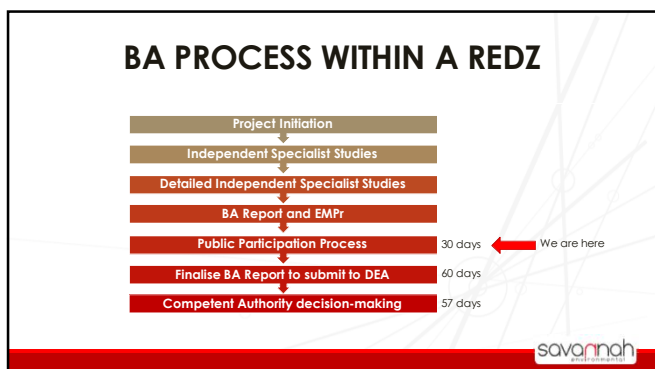


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### EIA PROCESS

- » **Environmental Authorisation (EA)** in terms of NEMA & the EIA Regulations
- » National Department of Environmental Affairs (DEA) is the competent authority (i.e. decision-maker)
- » Northern Cape Department of Environment and Nature Conservation (DENC) is the commenting authority
- » Basic Assessment (BA) process being undertaken
- » Basic Assessment process within the REDZ runs for a total of 147 days
  - \* 90 days - BA process
  - \* 57 days - competent authority decision-making

26



27

### WAY FORWARD – WIND FARMS

- » BA Reports Review period: **24 October 2018 – 23 November 2018**.
- » Written comments to be submitted by **23 November 2018**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval: December 2018.
- » Expected timing of decision: February 2019.

28

### WAY FORWARD – GRID INFRASTRUCTURE

- » Undertake and complete the detailed independent **specialist studies**.
- » Compile **BA reports** for the grid infrastructure.
- » Notify I&APs of the availability of the BA reports for review.
- » Make the BA reports available for a **30-day review period**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval.
- » Expected timing of report availability: TBC.

29

### PLEASE DIRECT COMMENTS TO:

**Nicolene Venter: Savannah Environmental**

t: +27 (0)11 656 3237  
f: +27 (0)86 684 0547  
e: publicprocess@savannahsa.com  
w: www.savannahsa.com

a: First Floor, Block 2, 5 Woodlands Drive Office Park  
Cnr Woodlands Drive & Western Service Road  
Woodmead, 2191

30



**BASIC ASSESSMENT AND PUBLIC PARTICIPATION  
PROCESS  
for the  
NAMAS AND ZONNEQUA WIND FARMS, ASSOCIATED  
INFRASTRUCTURE AND POWER LINE CORRIDOR NEAR  
KLEINSEE, NORTHERN CAPE PROVINCE**

**Affected Landowners**

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**NOTES OF FOCUS GROUP MEETING  
HELD ON WEDNESDAY, 14 NOVEMBER 2018  
VENUE: Houthoop Guest Farm, Kleinsee**

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**Notes for the Record prepared by:**

Nicolene Venter

**Savannah Environmental (Pty) Ltd**

**E-mail: [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)**

***Please address any comments to Savannah Environmental at the above address***

## NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE AND POWER LINE CORRIDOR PROJECTS

**Venue:** Houthoop Guest Farm, Kleinsee

**Date:** Wednesday, 14 November 2018

**Time:** 14h00

### WELCOME AND INTRODUCTION

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Ms Nicolene Venter, Public Participation Practitioner, Savannah Environmental, thanked the attendees for making time available for attending the Focus Group Meeting. After introducing herself and her role, she requested the project team and the attendance to introduce themselves.

### MEETING ATTENDEES

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Name	Organisation	Position
Meisie Engelbrecht	Farm Zonnekwa	Landowner
Danie Englebrecht		
Annabe van Dyk		
Johan & Jenny Mostert	Farm Rooivlei	Landowners
Albertus Roux	Farm Kap Vley	Landowner
Anton Meyer	De Beers Group	Senior Environmental Officer
Winnfred McNellas	Namahala Trading	Owner
Nico Stassen	Kamieskroon	Resident
Tamsin Sheard	Developer	Genesis Eco Energy
Sonia Miszczak	Developer	Atlantic Renewable Energy Partners
Lisa Opperman	Savannah Environmental	Environmental Assessment Practitioner
Nicolene Venter		Public Participation & Social Consultant

### APOLOGIES

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Gert Greeff, Eskom Holdings SOC Ltd

**Attendance record attached as Appendix A**

### BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECTS

---

In the absence of projection facilities, Lisa Opperman presented the project information by referring the attendees to the Background Information Document and the environmental sensitivity and locality maps made available to the attendees.

She informed the attendees that the project consist of two 140MW wind farms proposed to be developed on adjacent sites within the Springbok REDZ, approximately 20 km south of the town of Kleinsee in the Northern Cape. The wind farms are known as the **Namas Wind Farm** and the **Zonnequa Wind Farm** and are within the Nama Khoi Local Municipality and the Namakwa District Municipality. Suitable project sites for the development of each of the wind farms has been identified within the Focus Area 8 of the Renewable Energy Development Zones (REDZ) which is known as the Springbok REDZ.

The farms Zonnekwa 328 and the Remaining Extent of the Farm Zonnekwa 326 are the properties identified for the **Zonnequa Wind Farm** and four (4) farms have been identified as suitable sites for the **Namas Wind Farm**: Zonnekwa 328, portions 3 and 4 and Rooivlei 327, remaining extent and portion 3.

The associated infrastructure for both these wind farms will consist of:

- » concrete turbine foundations and hardstand areas;
- » temporary laydown areas, including storage and assembly areas;
- » internal cabling between the turbines;
- » temporary concrete batching plant; and
- » operation and maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop and visitors centre.

### **Grid Infrastructure**

The power generated by these two wind farms will feed into Eskom's existing grid network via a connection to the existing Gromis Substation located approximately 26km north of both the wind farm sites. The grid network will consist of a double-circuit 132kV power line and collector substation for each project and the proposed corridor for environmental assessment will be 300m wide. Should this corridor be found to be feasible, a registered servitude of 32m will be negotiated with the affected landowners.

It is the developer's intention to bid each wind farm under the Department of Energy's (DoE) Renewable Energy Independent Power Producer Procurement (REIPPP) Programme. The power generated from each facility will be sold to Eskom and will feed into the national electricity grid. The development of the facilities will also assist with the achievement of the electricity goals as set out in the Integrated Resources Plan (IRP).

### **Environmental Impacts as documented in the Basic Assessment Reports**

Ms Lisa Opperman informed the attendees that the environmental studies conducted for the Namas Wind Farm and the Zonnequa Wind Farm are:

- Ecology;
- Avifauna;
- Bats;
- Land Use, Soils and Agricultural Potential;
- Heritage (including archaeology and palaeontology);

- Noise;
- Visual;
- Socio-economic; and
- Traffic

No Fatal flaws were identified, and sensitive environmental features have been taken into account with the design layouts of both the wind farms and are therefore avoided.

The studies also indicated that the majority of the impacts will be of a medium to low significance although the visual impact would be high due to the flat terrain. This impact cannot be mitigated. All other environmental impacts can be mitigated to an acceptable level.

**Copy of presentation attached as Appendix B.**

**DISCUSSION SESSION**

Question / Comment	Response
<p>Johan Mostert raised the concern that the construction will have a negative impact on the environment and the landowners affected by the proposed developments.</p>	<p>Lisa Opperman responded that a Social Impact Assessment was conducted, and any negative impacts associated with the project, especially during the construction phase, have been identified, addressed and mitigation measures proposed.</p> <p>Sonia Miszczak added that an Environmental Control Officer (ECO) will be appointed during the construction phase to ensure that all mitigation measures captured in the Environmental Management Programme (EMPr) are adhered to considering the affected landowners.</p> <p>She informed the attendees that all non-compliance can be reported to the ECO and that the ECO needs to keep a register of all complaints submitted and indicate how and when it was dealt with.</p> <p>Tamsin Sheard added that all non-compliance can also be submitted directly to the Department of Environmental Affairs (DEA).</p>
<p>Jenny Mostert raised concerns that the construction vehicles will impact on the roads.</p>	<p>Lisa Opperman responded that a Traffic Impact Assessment has been undertaken by the Traffic Specialist and it was found that the roads in the area have been constructed to accommodate the De Beers mine vehicles, and as such no upgrades are needed for the trucks transporting</p>

	the equipment to the project sites for these developments.
Albertus Roux raised the concern regarding the damage that the construction vehicles would cause when turning in the field and thereby destroy the growth of the plants, which is highly sensitive in terms of re-growth.	Lisa Opperman replied that specific measures in terms of traffic management have been included in the EMPr and that the drivers of the construction vehicles will need to adhere to these mitigation measures in order to be compliant with the Environmental Authorisation.
The attendees informed the project team that the concern raised regarding construction vehicles not sticking to the requirements as set out in the EMPr and overall disregard of the environment and the disrespectful behaviour towards landowners is mentioned as they experienced it during the erection of the wind mast for the projects.	Sonia Miszczak replied that the company was not aware of the situation and that it will be taken forward to prevent the same situation should these projects be successful in the bidding process.
Anton Meyer requested that records need to be drafted in which the current environmental condition is recorded for the power line corridors (before and after) to address any disturbance and to determine whether the disturbance was due to mining or the construction of the power lines.	Lisa Opperman replied that this matter will need to be discussed further between the developer and the mining companies in order to ensure that correct responsibility is placed for disturbance and rehabilitation.
Anton Meyer enquired whether the power line project will consist of two single power lines or a double circuit for both the wind farms.	Lisa Opperman replied that two double-circuit 132kV power lines (one for each wind farm) will be assessed as part of the grid infrastructure Basic Assessment processes.
Albertus Roux enquired whether provision will be made to prevent and deal with veld fires.	Lisa Opperman replied that measures to prevent veld fires are included in the EMPr.
Johan Mostert enquired whether erosion has been taken into consideration.	Lisa Opperman confirmed that the Soils Impact Assessment identified and assessed the impact of soil erosion for the projects. The specialist has also recommended appropriate mitigation measures within the report for the mitigation of soil erosion associated with the wind farms.
Jenny Mostert enquired whether the registered servitude for the grid connection will traverse the farms listed as affected by the grid infrastructure.	Lisa Opperman confirmed that the power lines for the projects will traverse the properties as listed.
Danie Engelbrecht enquired whether the power lines for the projects will be above or below ground.	Lisa Opperman confirmed that the power lines will be constructed above ground. The only underground lines would be the internal reticulation lines from the wind turbines to the on-site substation.

## **WAY FORWARD AND CLOSURE**

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In terms of the wind farms, Ms Opperman reminded the attendees that the Basic Assessment Reports' comment and review period started on the 24<sup>th</sup> of October 2018 and will end on the 23<sup>rd</sup> of November 2018. The attendees were requested that should they have any additional comments which were not discussed at the Focus Group Meeting, to please ensure that they reach the public participation office by the 23<sup>rd</sup> of November 2018. All comments raised during the public participation process will be included in the final Basic Assessment Reports that will be submitted to the Department of Environmental Affairs (DEA) by early December 2018 for decision-making.

It is envisaged that the DEA will issue their decision in February 2019.

In terms of the Grid Connection, the attendees were informed that:


- Basic Assessment Processes will be undertaken for the grid infrastructure associated with the wind farm, and that the detailed independent specialist studies will be completed, after which;
- the Basic Assessment Reports (BARs) will be drafted;
- Interested and Affected Parties (I&APs) will be notified of the availability of the BARs for review;
- the BARs will be made available for a 30-day review period;
- all comments received during the BARs' review period will be included in the final BARs;
- the final BARs will be submitted to the DEA for approval; and
- the expected timeframe for the BARs will be communicated to registered I&APs.


Ms Venter thanked the attendees once again for their attendance and informed them not to hesitate to submit any further queries regarding the proposed developments to the Savannah Environmental public participation office.


The meeting closed at 14h45.


**ATTENDANCE REGISTER**

<b>Project</b>	Namas & Zonnequa		<b>Meeting</b>	Focus Group Meeting with Landowners	
<b>Date</b>	14 November 2018	<b>Time</b>	14h00	<b>Venue</b>	Houthoop Guest House


Organization	Name & Postal Address	Contact Details	Signature
1 Savannah Environmental	Nicolene Venter	Tel: 011 656 2986	
<b>Designation</b>	First Floor, Block 2, 5 Woodlands Drive office Park, Woodmead	Fax: 086 684 0547	
Public Participation Consultant		Cell: 083 377 9112 Email: nicolene@savannahsa.com	

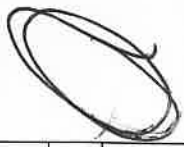
Organization	Name & Postal Address	Contact Details	Signature
2 Savannah Environmental	Lisa Opperman	Tel: 011 656 2986	
<b>Designation</b>	First Floor, Block 2, 5 Woodlands Drive office Park, Woodmead	Fax: 086 684 0547	
EAP		Cell: 084 920 3111 Email: lisa.o@savannahsa.com	

Organization	Name & Postal Address	Contact Details	Signature
3 Savannah Environmental	Meisie Engelbrecht	Tel: 0834580190	
<b>Designation</b>		Fax:	
		Cell: 083 458 2190 Email: meisie@3i.co.za	




Organization	Name & Postal Address	Contact Details	Signature
4	Annabe van Dyk	Tel: 0833050333 Fax: Cell: 083-232-5233 Email: annabevandyk@gmail.com	
	Designation		



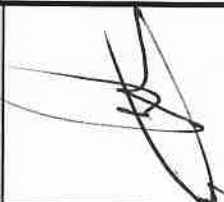
Organization	Name & Postal Address	Contact Details	Signature
5	Dean Francois Kotze	Tel: Fax: Cell: 081-050-7648 Email:	
	Designation		

Organization	Name & Postal Address	Contact Details	Signature
6	Johan Jacobus Mostert <i>Jenny</i>	Tel: 027 - 8770344 Fax: — Cell: 083-708-8947 Email: roovivley@gmail.com	
	Designation		

Organization	Name & Postal Address	Contact Details	Signature
7	Albertus Johannes Roux	Tel: Fax: 027 672 1646 Cell: 073-203-2691 Email:	
	Designation		




Organization	Name & Postal Address	Contact Details	Signature
8	Willem Engelbrecht (1943)	Tel: Fax: Cell: 083-232-5233 Email: annabevandyk@gmail.com	
	Designation		
9	Willem Engelbrecht (1944)	Tel: 0834582190 Fax: Cell: <del>0834582190</del> Email: meisie@3i.co.za	
	Designation		
10	TAMJIN SHEARD 39 de Villiers Rd kommetjie CT	Tel: 083 251 2798 Fax: Cell: Email: tamjin.sheard@genesis-eco.com	
	Designation		
	Developer		
11	SONIA MUSZCZAK PO BOX 51060 WATERFORD 9002	Tel: 021 418 2596 Fax: Cell: Email: SONIA@ATLANTICEP.COM	
	Designation		
	DEVELOPER		

Organization	Name & Postal Address	Contact Details	Signature
12 De Beers Designation S.E.O.	Anton Meyer PB X 01 Kleinzes 8282	Tel: 0279770048 Fax: Cell: 0839770119 Email: anton.meyer@debeersgroup.com	
13 Namahata Trading Designation Besheids eers.	Winnestad McNeilan Bus 208 Klensee 8282	Tel: 085 - 230 3211 Fax: - Cell: - Email: namahatatrading@gmail.com	
14 INNONCA KAMICSKLOON Designation	NICO STASSEN	Tel: 08455 21026 Fax: Cell: Email: NICO G. STASSEN @ 9 MAIL.COM	
15 Designation		Tel: Fax: Cell: Email:	

# NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE, NORTHERN CAPE PROVINCE

Key Stakeholder Focus Group Meetings  
13 – 14 November 2018



1

## MEETING AGENDA


1. Welcome & introduction
2. Purpose of the Meeting
3. Scope of works
4. Project Overview
5. Overview of BA Process
6. Way forward



2

## PURPOSE OF THE MEETING


- » Provide I&APs with an overview of:
  - \* Namas Wind Farm and associated infrastructure
  - \* Zonnequa Wind Farm and associated infrastructure
- » Explain the **Basic Assessment (BA) & Public Participation** process(es) being undertaken
- » Present the findings of the **BA Reports**
- » Provide I&APs the opportunity to seek clarity regarding the projects
- » Opportunity to provide valuable input into/to inform the BA processes
- » Obtain and record comments for inclusion in the **Final BA Reports** to be submitted to DEA



3

## SCOPE OF WORKS


- » Assessment of the environmental and social impacts
- » Recommendation of appropriate mitigation measures
- » Studies include:
  - \* BA for the Namas Wind Farm (only the facility)
  - \* BA for the Namas Wind Farm associated grid infrastructure (incl. collector substation and power line)
  - \* BA for the Zonnequa Wind Farm (only the facility)
  - \* BA for the Zonnequa Wind Farm associated grid infrastructure (incl. collector substation and power line)



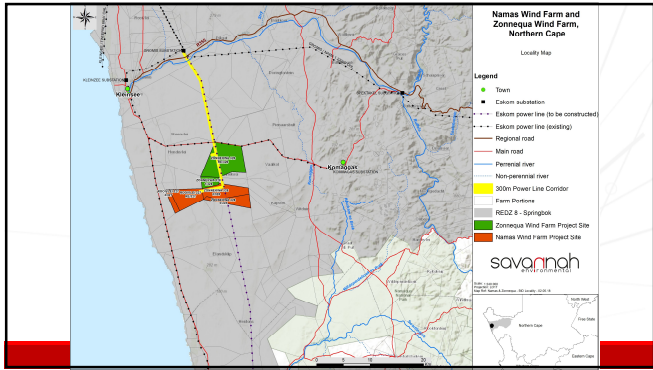
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## PROGRESS UPDATE

- » BAs for the Namas Wind Farm and Zonnequa Wind Farm (facilities only) – have been undertaken, reports are currently available for review and comment
- » BAs for the associated grid infrastructure – still underway



5



6

### DEVELOPMENT WITHIN A REDZ

- » REDZ - Renewable Energy Development Zone
- » Areas of strategic importance for large scale wind and solar photovoltaic development in terms of Strategic Integrated Project 8
- » Significant impacts on the natural environment are limited and socio-economic benefits to the country are enhanced
- » Shortened timeframe in terms of the EIA Regulations, 2014 (as amended), prescribed timeframes
- » Project location – Springbok REDZ



7

### PROJECT DETAILS – WIND FARMS

	Namas Wind Farm	Zonnequa Wind Farm
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Area of project site	~5092ha (4 affected properties)	~4434ha (2 affected properties)
Area of development footprint	~35.46ha	~39.57ha
Contracted capacity	up to 140MW	up to 140MW
Number of turbines	up to 43	up to 56
Hub height	up to 130m	up to 130m
Tip height	up to 205m	up to 205m
On-site facility substation size	150m x 150m	150m x 150m
Access roads	~8m in width	~8m in width

8

### PROJECT DETAILS – ASSOCIATED GRID INFRASTRUCTURE

	Namas Wind Farm – associated grid infrastructure	Zonnequa Wind Farm – associated grid infrastructure
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Grid connection	Existing Gromis Substation, approx. 26km north of the wind farm	Existing Gromis Substation, approx. 16km north of the wind farm
Grid connection solution	Double-Circuit power line and collector substation assessed as a 300m power line corridor	Double-Circuit power line and collector substation assessed as a 300m power line corridor
Power line capacity	132kV	132kV
Collector substation size	150m x 150m	150m x 150m
Collector substation capacity	22/132kV or 33/132kV	22/132kV or 33/132kV



9

### WIND FARM INFRASTRUCTURE

- » Concrete turbine foundations & hardstand areas
- » Temporary laydown areas, including storage and assembly areas
- » Internal cabling between the turbines
- » Temporary concrete batching plant
- » Operation & Maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop & visitors centre.



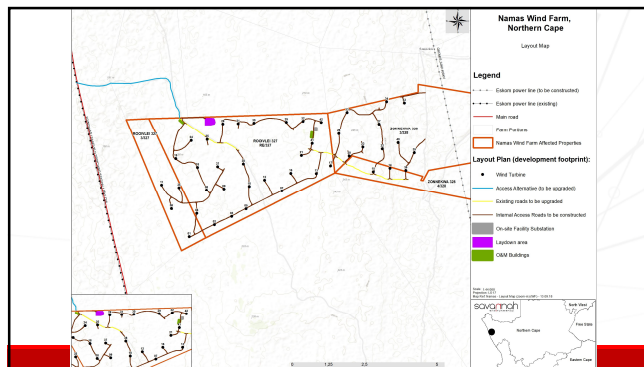
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### GRID INFRASTRUCTURE

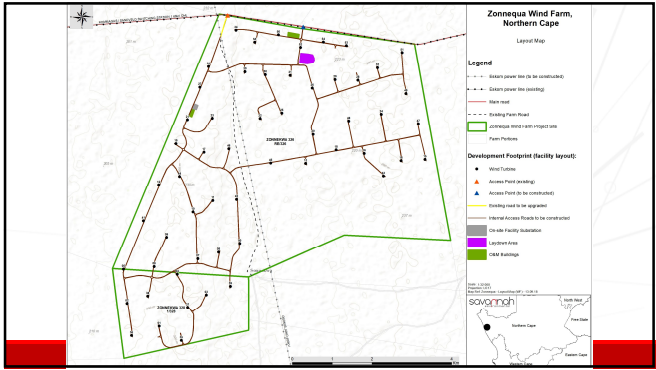
- » Access roads/tracks for construction and maintenance of power line and collector substation
- » Pylon foundations
- » Power line towers (pylons)
- » Collector substation foundation
- » Limited offices or buildings for the operation and management of the collector substation



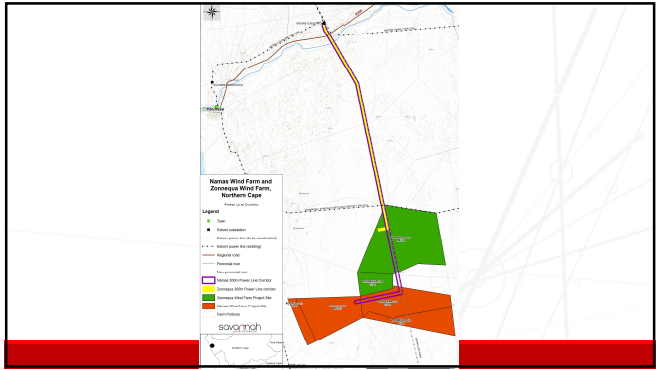
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13



14

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Activities



- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations
- » Construction of turbines
- » Installation of internal cabling
- » Construction of on-site substation
- » Temporary infrastructure

15

### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Activities


- » Operation of the turbines (rotation of the blades)
- » Maintenance activities
- » Night time lighting of the facility

16

### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Construction Activities


- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations (incl. pylon foundations)
- » Construction of collector substation
- » Construction of power line
- » Temporary infrastructure



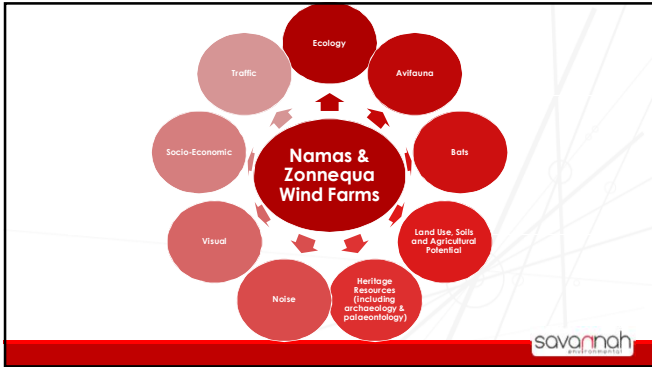
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### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Operation Activities

- » Operation of the associated power infrastructure
- » Maintenance activities
- » Night time lighting of the collector substation



18



19

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Impacts

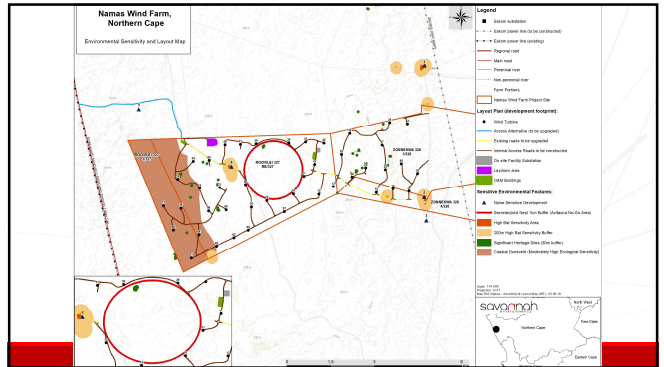
- » Environmental impacts: associated with construction activities within the development footprint
  - \* Loss or modification of intact vegetation
  - \* Threats to biodiversity and ecological processes (i.e. CBA and ESA)
  - \* Impacts to fauna and birds (e.g. direct mortality and loss of habitat)
  - \* Soil erosion (i.e. wind erosion)
  - \* Destruction of heritage sites/material
  - \* Noise and vibration
  - \* Nuisance impacts (i.e. dust)
  - \* Social impacts – visual, residents, socio-economic and economic benefits

20

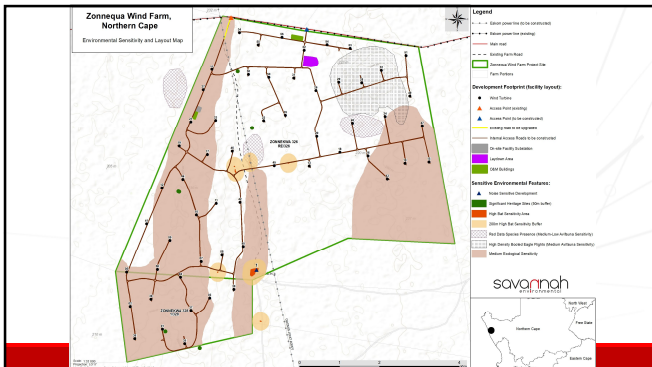
### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Impacts

- » Environmental impacts: associated with operation phase activities within the development footprint to be managed through the EMPr
  - \* Visual impacts – visibility of the wind turbines
  - \* Noise impacts
  - \* Avian/bat mortality resulting from collisions with infrastructure
  - \* Social impact/benefit – local residents, property value, socio-economic benefits

21



22

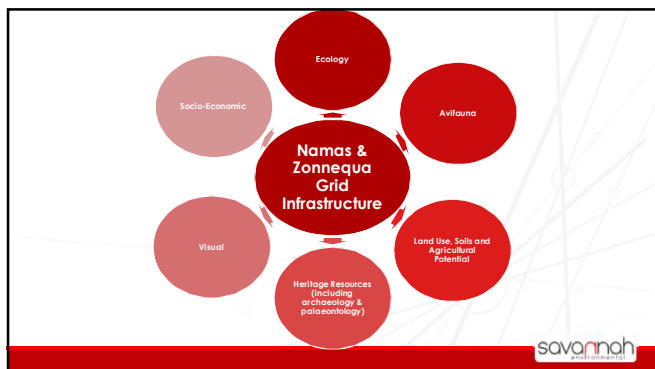


23

### WIND FARM - RESULTS

- » No fatal flaws identified
- » Sensitive environmental features have been avoided
- » Majority of the impacts will be of a medium to low significance
- » High visual impact due to visibility of the turbines – cannot be mitigated
- » All other impacts can be mitigated to acceptable levels
- » Development footprints are considered acceptable within the proposed project sites

24

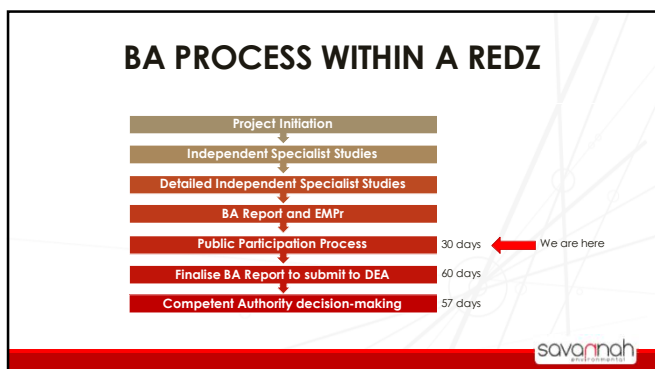


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### EIA PROCESS

- » **Environmental Authorisation (EA)** in terms of NEMA & the EIA Regulations
- » National Department of Environmental Affairs (DEA) is the competent authority (i.e. decision-maker)
- » Northern Cape Department of Environment and Nature Conservation (DENC) is the commenting authority
- » Basic Assessment (BA) process being undertaken
- » Basic Assessment process within the REDZ runs for a total of 147 days
  - \* 90 days - BA process
  - \* 57 days - competent authority decision-making

26



27

### WAY FORWARD – WIND FARMS

- » BA Reports Review period: **24 October 2018 – 23 November 2018**.
- » Written comments to be submitted by **23 November 2018**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval: December 2018.
- » Expected timing of decision: February 2019.

28

### WAY FORWARD – GRID INFRASTRUCTURE

- » Undertake and complete the detailed independent **specialist studies**.
- » Compile **BA reports** for the grid infrastructure.
- » Notify I&APs of the availability of the BA reports for review.
- » Make the BA reports available for a **30-day review period**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval.
- » Expected timing of report availability: TBC.

29

### PLEASE DIRECT COMMENTS TO:

**Nicolene Venter: Savannah Environmental**

t: +27 (0)11 656 3237  
 f: +27 (0)86 684 0547  
 e: publicprocess@savannahsa.com  
 w: www.savannahsa.com

o: First Floor, Block 2, 5 Woodlands Drive Office Park  
 Cnr Woodlands Drive & Western Service Road  
 Woodmead, 2191

30

**BASIC ASSESSMENT AND PUBLIC PARTICIPATION  
PROCESS  
for the  
NAMAS AND ZONNEQUA WIND FARMS, ASSOCIATED  
INFRASTRUCTURE AND POWER LINE CORRIDOR NEAR  
KLEINSEE, NORTHERN CAPE PROVINCE**

**Sandveld Farmers' Association**

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**NOTES OF FOCUS GROUP MEETING  
HELD ON WEDNESDAY, 14 NOVEMBER 2018  
VENUE: Houthoop Guest Farm, Kleinsee**

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**Notes for the Record prepared by:**

Nicolene Venter

**Savannah Environmental (Pty) Ltd**

**E-mail: [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)**

***Please address any comments to Savannah Environmental at the above address***



## NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE AND POWER LINE CORRIDOR PROJECTS

**Venue:** Houthoop Guest Farm, Kleinsee

**Date:** Wednesday, 14 November 2018

**Time:** 18h00

### WELCOME AND INTRODUCTION

---

Ms Nicolene Venter, Public Participation Practitioner, Savannah Environmental, thanked the attendees for making time available for attending the Focus Group Meeting. After introducing herself and her role, she requested the project team and the attendance to introduce themselves.

### MEETING ATTENDEES

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Name	Organisation	Position
Meisie Engelbrecht	Sandveld Farmers' Association	Chairperson
Danie Englebrecht		Member
Danie van Dykl		
Johan Mostert		
WD de Waal		
Eddie Snell & Mev Snell		
KC du Toit	South African Police Services	Superintendent
Alwyn Beeslaar		Kleinsee Forum
Tamsin Sheard	Developer	Genesis Eco Energy
David Peinke	Developer	Atlantic Renewable Energy Partners
Sonia Miszczak		
Lisa Opperman	Savannah Environmental	Environmental Assessment Practitioner
Nicolene Venter		Public Participation & Social Consultant

### APOLOGIES

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None

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- » concrete turbine foundations and hardstand areas;
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- Bats;
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- Heritage (including archaeology and palaeontology);

- Noise;
- Visual;
- Socio-economic; and
- Traffic

No Fatal flaws were identified, and sensitive environmental features have been taken into account with the design layouts of both the wind farms and are therefore avoided.

The studies also indicated that the majority of the impacts will be of a medium to low significance although the visual impact would be high due to the flat terrain. This impact cannot be mitigated. All other environmental impacts can be mitigated to an acceptable level.

**Copy of presentation attached as Appendix B.**

## DISCUSSION SESSION

Question / Comment	Response
Johan Mostert enquired how many local job opportunities there would be.	Lisa Opperman replied that during the construction phase, it is envisaged that there would be between 300 – 400 job opportunities and up to 30 people will be permanently employed during the operation phase. Sonia Mischczak added that depending on the operation of the wind farms, it could be 10 permanent staff members attending to the day-to-day activities of the wind farms for the 20 – 25-year life span of the wind farms.
Eddie Snell asked for clarification whether the construction period for the wind farms and the power lines would be 24 months.	Lisa Opperman replied that the construction of a wind farm can take between 12 to 18 months and the power lines proposed for these projects could take up to 6 months.
Danie van Dyk enquired whether the local workforce will be accommodated on the project sites or will they be transported by bus.	David Peinke responded that as developers they are avoiding making housing facilities available on site and that the workers will be transported on a daily basis by bus to the sites.  <b>Post-Meeting note:</b> It needs to be noted that the only staff that will stay on the property would be the security officer/s on duty.
Alwyn Beeslaar enquired how many people would be working on the project that are not local.	Lisa Opperman replied that at this stage the number is not known but it can be mentioned that it would be the highly skilled and skilled workforce that is envisaged not to be local.

<p>Alwyn Beeslaar enquired regarding the time frames for the proposed developments.</p>	<p>David Peinke responded that the Independent Power Producers (IPPs) are waiting for the Department of Energy (DOE) to release the next bidding date, at which stage all IPPs will be requested to submit their proposals. Generally, the DOE takes up to three (3) months to make a decision and inform the successful bidders, thereafter it takes between nine (9) months to two (2) years for the IPPs to reach financial closure. Construction will only commence once financial close has been reached.</p>
<p>Danie Engelbrecht informed the project team that the proposed power lines will traverse his property and asked whether the proposed power lines would be single or double circuit and whether the lines will be constructed and maintained by Eskom.</p>	<p>David Peinke responded that the developers are still in discussions with Eskom. At this stage, collector substations will be constructed on each of the proposed development sites and a double-circuit line for each power line will feed the generated electricity into Eskom's existing Gromis Substation.</p>
<p>Danie Engelbrecht enquired which roads would be used to bring in the wind turbines.</p>	<p>Sonia Mischczak replied that the current planning is to access the Zonnequa project site from the north via the DR2964, and that the Namas site is proposed to be accessed by the MR751. What is important to note is that as a developer, they cannot leave the roads worse than the state they are currently in.</p>
<p>Alwyn Beeslaar informed the project team that there are discussions that the harbour in Port Nolloth might be upgraded.</p>	<p>David Peinke thanked Mr Beeslaar for the information.</p>
<p>Eddie Snell raised the concern regarding the possible influx of people from other areas seeking jobs.</p>	<p>Tamsin Sheard responded that to ensure that the labour force is sourced from local communities, the establishment of a steering committee between the appointed main contractor and Officials from the Nama Khoi Local Municipality would be established. Nicolene Venter added that unfortunately no one has control if community members inform family members from communities outside the 50km radius about the possibility of employment. It is believed that it will come down to the community members to confirm that a job seeker is from the local community.</p>
<p>Alwyn Beeslaar raised the concern that there are various projects that received Environmental Authorisation and a number in</p>	<p>Lisa Opperman replied that cumulative impacts have been assessed and the outcome is available in the Basic Assessment Reports.</p>

the planning phase in the area and this influx of projects could also negatively impact the environment.	These cumulative impacts include not only biodiversity but also the socio-economic impact.
Alwyn Beeslaar enquired whether the electricity price will be cheaper with all the renewable energy projects taking place.	David Peinke responded that the National Energy Regulator of South Africa (NERSA) is the authority that regulates the electricity price, whether the electricity is generated at coal fired power stations or through renewable energy. Therefore, the pricing of renewable energy projects cannot be responded to.
Alwyn Beeslaar enquired whether the environmental studies were conducted during the dry-season.	Lisa Opperman responded that the specialists contracted to undertake the impact assessments are well informed of the broader study area as the specialists had conducted various studies in the area for historical and current projects.
Eddie Snell commented that in the long term it would be better for the environment if renewable energy can be the main source to generate electricity and to stop using coal as an electricity generating source.	David Peinke acknowledged the comment and informed the attendees that hopefully this could be the situation in the future.

## **WAY FORWARD AND CLOSURE**

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In terms of the wind farms, Ms Opperman reminded the attendees that the Basic Assessment Reports' comment and review period started on the 24<sup>th</sup> of October 2018 and will end on the 23<sup>rd</sup> of November 2018. The attendees were requested that should they have any additional comments which were not discussed at the Focus Group Meeting, to please ensure that they reach the public participation office by the 23<sup>rd</sup> of November 2018. All comments raised during the public participation process will be included in the final Basic Assessment Reports that will be submitted to the Department of Environmental Affairs (DEA) by early December 2018 for decision-making.

It is envisaged that the DEA will issue their decision in February 2019.


In terms of the Grid Connection, the attendees were informed that:


- Basic Assessment Processes will be undertaken for the grid infrastructure associated with the wind farms, and that the detailed independent specialist studies will be completed, after which;
- the Basic Assessment Reports (BARs) will be drafted;
- Interested and Affected Parties (I&APs) will be notified of the availability of the BARs for review;
- the BARs will be made available for a 30-day review period;
- all comments received during the BARs' review period will be included in the final BARs;
- the final BARs will be submitted to the DEA for approval; and
- the expected timeframe for the BARs will be communicated to registered I&APs.

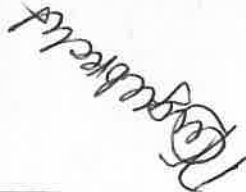
Ms Venter thanked the attendees once again for their attendance and informed them not to hesitate to submit any further queries regarding the proposed developments to the Savannah Environmental public participation office.


The meeting closed at 19h30.


ATTENDANCE REGISTER			
Project	Meeting		Venue
Namas & Zonnequa Wind Farms	Focus Group Meeting with Sandveld Farmers' Association (Agri Northern Cape)		Houthoob Guest House
Date	Time	Venue	
14 November 2018	18h00		


Organization	Name & Postal Address	Contact Details	Signature
1 Savannah Environmental Public Participation Consultant	Nicolene Venter First Floor, Block 2. 5 Woodlands Drive Office Park, Woodmead	Tel: 011 656 2986 Fax: 086 684 0547 Cell: 083 377 9112 Email: nicolene@savannahsa.com	


Organization	Name & Postal Address	Contact Details	Signature
2 Savannah Environmental EAP	Lisa Opperman First Floor, Block 2. 5 Woodlands Drive Office Park, Woodmead	Tel: 011 656 2986 Fax: 086 684 0547 Cell: 084 920 3111 Email: lisa.o@savannahsa.com	

Organization	Name & Postal Address	Contact Details	Signature
3 Sandveld Farmers' Association: Agri Northern Cape Chairperson	Meisie Engelbrecht	Tel: 083 458 2190 Fax: Cell: 0834582190 Email: meisie@3i.co.za	



Organization	Name & Postal Address	Contact Details	Signature
GENESIS	TAMJIN SHEARD 39 de villiers rd KAMMAGHIE CT	Tel: 083 251 2798 Fax: Cell: Email: tamjin.sheard@genesis-ec.com	
4	Designation DEVELOPER		

Organization	Name & Postal Address	Contact Details	Signature
AEP	SONIA MUSCRAK PO BOX 51060 WATERFRONT 8002	Tel: 021 418 2596 Fax: Cell: Email: SONIA@ATLANTICOP.COM	
5	Designation DEVELOPER		

Organization	Name & Postal Address	Contact Details	Signature
STH (SHAD) Springbok.	K. C. DU TOIT BUS 1122 Springbok	Tel: 027-7123737 Fax: Cell: 0824928291 Email: pillansii@telkomsa.net	
6	Designation		

Organization	Name & Postal Address	Contact Details	Signature
BOEREVERENING	WJ VAN DYK BUS 245 KLEINZEE	Tel: 083 2376105 Fax: Cell: Email: houthoop@telkomSA.net	
7	Designation		



Organization	Name & Postal Address	Contact Details	Signature
8 Boerevereniging Designation	JOHAN MOSTERT POSBUS 269 KLERINSEE. 8282.	Tel: 083 70 88947. Fax: Cell: Email:	
9 Boere Vereniging Designation	W D de Waal. POBOS 57 Klerinsee	Tel: 027 877 0013 Fax: Cell: 061 9631 250 Email:	
10 Boere Vereniging Designation	Eddie Snell POSBUS 12239 Leraatsfontein 1038	Tel: 082 820 2014 Fax: Cell: 079 191 0648 Email: jsnell@duccomas.co.za	
11 SOAPS KLINIEK. BOERE VERENIGING Designation	Alwyn PETERSHAM. POSBUS 019. Kliniek. 5752	Tel: 027 448 4540 Fax: 027 448 4540 Cell: 027 448 4540 Email: Boesloot@SOAPS.gov.za	

12	Organization	DAVID PENNKE 7 WEST QUAY ROAD WEST QUAY BUILDING WATERFRONT, 8000	Name & Postal Address	Contact Details		Signature
	Designation			Tel: 021 418 2596		
				Fax: -		
				Cell: 084 401 9015		
				Email: david@atlanticp.com		


13	Organization		Name & Postal Address	Contact Details		Signature
	Designation			Tel:		
				Fax:		
				Cell:		
				Email:		

14	Organization		Name & Postal Address	Contact Details		Signature
	Designation			Tel:		
				Fax:		
				Cell:		
				Email:		

15	Organization		Name & Postal Address	Contact Details		Signature
	Designation			Tel:		
				Fax:		
				Cell:		
				Email:		

# NAMAS AND ZONNEQUA WIND FARMS AND ASSOCIATED INFRASTRUCTURE, NORTHERN CAPE PROVINCE

Key Stakeholder Focus Group Meetings  
13 – 14 November 2018



1

## MEETING AGENDA


1. Welcome & introduction
2. Purpose of the Meeting
3. Scope of works
4. Project Overview
5. Overview of BA Process
6. Way forward



2

## PURPOSE OF THE MEETING


- » Provide I&APs with an overview of:
  - \* Namas Wind Farm and associated infrastructure
  - \* Zonnequa Wind Farm and associated infrastructure
- » Explain the **Basic Assessment (BA) & Public Participation** process(es) being undertaken
- » Present the findings of the **BA Reports**
- » Provide I&APs the opportunity to seek clarity regarding the projects
- » Opportunity to provide valuable input into/to inform the BA processes
- » Obtain and record comments for inclusion in the **Final BA Reports** to be submitted to DEA



3

## SCOPE OF WORKS


- » Assessment of the environmental and social impacts
- » Recommendation of appropriate mitigation measures
- » Studies include:
  - \* BA for the Namas Wind Farm (only the facility)
  - \* BA for the Namas Wind Farm associated grid infrastructure (incl. collector substation and power line)
  - \* BA for the Zonnequa Wind Farm (only the facility)
  - \* BA for the Zonnequa Wind Farm associated grid infrastructure (incl. collector substation and power line)



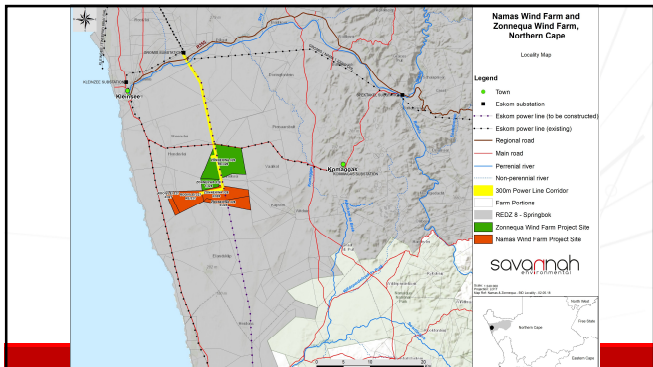
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## PROGRESS UPDATE

- » BAs for the Namas Wind Farm and Zonnequa Wind Farm (facilities only) – have been undertaken, reports are currently available for review and comment
- » BAs for the associated grid infrastructure – still underway



5



6

### DEVELOPMENT WITHIN A REDZ

- » REDZ - Renewable Energy Development Zone
- » Areas of strategic importance for large scale wind and solar photovoltaic development in terms of Strategic Integrated Project 8
- » Significant impacts on the natural environment are limited and socio-economic benefits to the country are enhanced
- » Shortened timeframe in terms of the EIA Regulations, 2014 (as amended), prescribed timeframes
- » Project location – Springbok REDZ



7

### PROJECT DETAILS – WIND FARMS

	Namas Wind Farm	Zonnequa Wind Farm
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Area of project site	~5092ha (4 affected properties)	~4434ha (2 affected properties)
Area of development footprint	~35.46ha	~39.57ha
Contracted capacity	up to 140MW	up to 140MW
Number of turbines	up to 43	up to 56
Hub height	up to 130m	up to 130m
Tip height	up to 205m	up to 205m
On-site facility substation size	150m x 150m	150m x 150m
Access roads	~8m in width	~8m in width

8

### PROJECT DETAILS – ASSOCIATED GRID INFRASTRUCTURE

	Namas Wind Farm – associated grid infrastructure	Zonnequa Wind Farm – associated grid infrastructure
Applicant	Genesis Namas Wind (Pty) Ltd	Genesis Zonnequa Wind (Pty) Ltd
Grid connection	Existing Gromis Substation, approx. 26km north of the wind farm	Existing Gromis Substation, approx. 16km north of the wind farm
Grid connection solution	Double-Circuit power line and collector substation assessed as a 300m power line corridor	Double-Circuit power line and collector substation assessed as a 300m power line corridor
Power line capacity	132kV	132kV
Collector substation size	150m x 150m	150m x 150m
Collector substation capacity	22/132kV or 33/132kV	22/132kV or 33/132kV



9

### WIND FARM INFRASTRUCTURE

- » Concrete turbine foundations & hardstand areas
- » Temporary laydown areas, including storage and assembly areas
- » Internal cabling between the turbines
- » Temporary concrete batching plant
- » Operation & Maintenance buildings, including gate house, security building, control centre, offices, warehouses, a workshop & visitors centre.



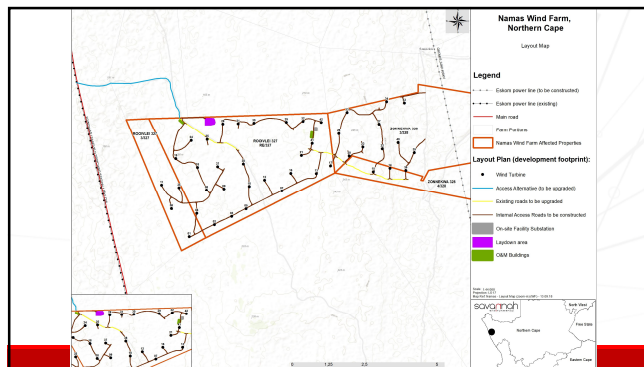
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### GRID INFRASTRUCTURE

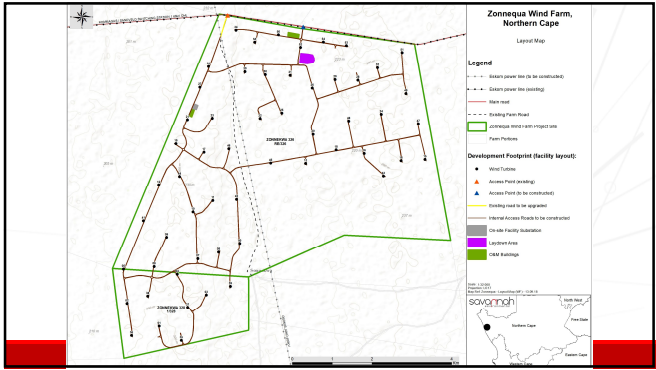
- » Access roads/tracks for construction and maintenance of power line and collector substation
- » Pylon foundations
- » Power line towers (pylons)
- » Collector substation foundation
- » Limited offices or buildings for the operation and management of the collector substation



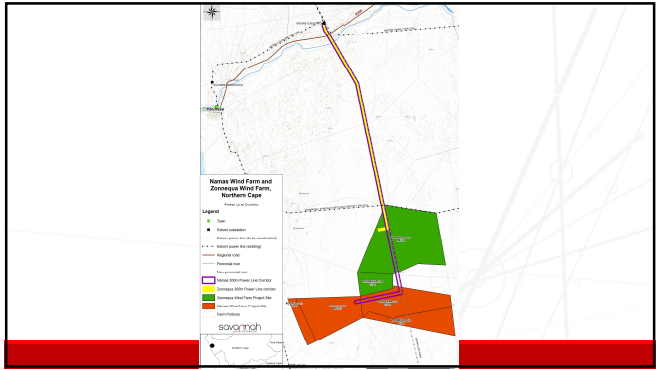
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12





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14

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Activities



- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations
- » Construction of turbines
- » Installation of internal cabling
- » Construction of on-site substation
- » Temporary infrastructure

15

### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Activities


- » Operation of the turbines (rotation of the blades)
- » Maintenance activities
- » Night time lighting of the facility

16

### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Construction Activities


- » Establish access roads
- » Site preparation
- » Laydown areas
- » Construction of foundations (incl. pylon foundations)
- » Construction of collector substation
- » Construction of power line
- » Temporary infrastructure



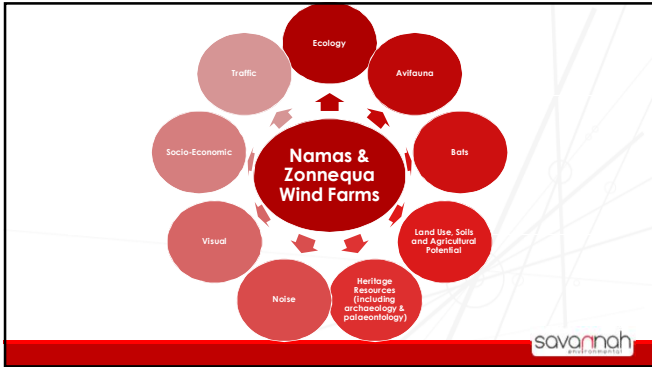
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### GRID INFRASTRUCTURE-SPECIFIC DETAILS: Operation Activities

- » Operation of the associated power infrastructure
- » Maintenance activities
- » Night time lighting of the collector substation



18



19

### WIND FARM PROJECT-SPECIFIC DETAILS: Construction Impacts

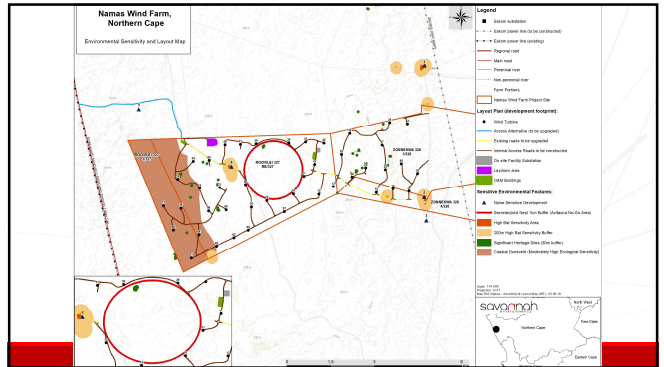
- » Environmental impacts: associated with construction activities within the development footprint
  - \* Loss or modification of intact vegetation
  - \* Threats to biodiversity and ecological processes (i.e. CBA and ESA)
  - \* Impacts to fauna and birds (e.g. direct mortality and loss of habitat)
  - \* Soil erosion (i.e. wind erosion)
  - \* Destruction of heritage sites/material
  - \* Noise and vibration
  - \* Nuisance impacts (i.e. dust)
  - \* Social impacts – visual, residents, socio-economic and economic benefits

20

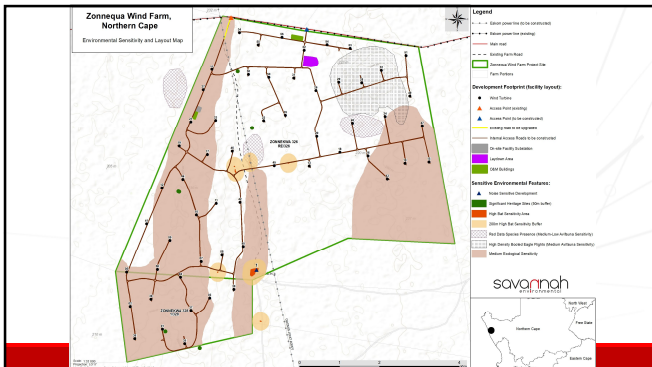
### WIND FARM PROJECT-SPECIFIC DETAILS: Operation Impacts

- » Environmental impacts: associated with operation phase activities within the development footprint to be managed through the EMPr
  - \* Visual impacts – visibility of the wind turbines
  - \* Noise impacts
  - \* Avian/bat mortality resulting from collisions with infrastructure
  - \* Social impact/benefit – local residents, property value, socio-economic benefits

21



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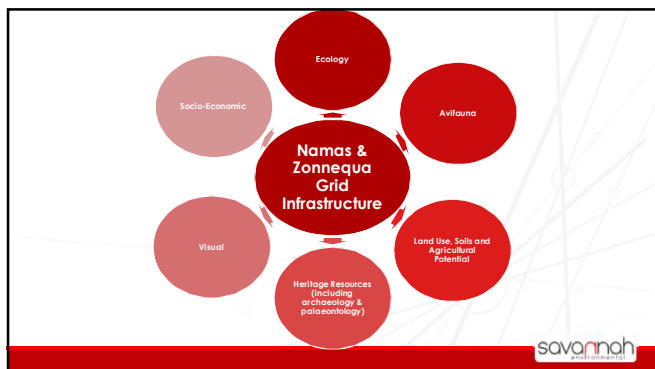


23

### WIND FARM - RESULTS

- » No fatal flaws identified
- » Sensitive environmental features have been avoided
- » Majority of the impacts will be of a medium to low significance
- » High visual impact due to visibility of the turbines – cannot be mitigated
- » All other impacts can be mitigated to acceptable levels
- » Development footprints are considered acceptable within the proposed project sites

24

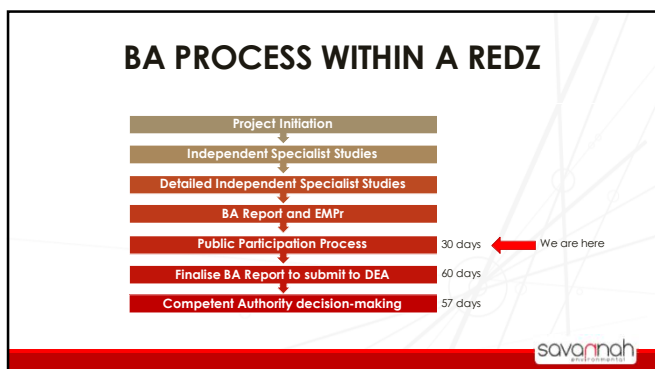


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### EIA PROCESS

- » **Environmental Authorisation (EA)** in terms of NEMA & the EIA Regulations
- » National Department of Environmental Affairs (DEA) is the competent authority (i.e. decision-maker)
- » Northern Cape Department of Environment and Nature Conservation (DENC) is the commenting authority
- » Basic Assessment (BA) process being undertaken
- » Basic Assessment process within the REDZ runs for a total of 147 days
  - \* 90 days - BA process
  - \* 57 days - competent authority decision-making

26



27

### WAY FORWARD – WIND FARMS

- » BA Reports Review period: **24 October 2018 – 23 November 2018**.
- » Written comments to be submitted by **23 November 2018**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval: December 2018.
- » Expected timing of decision: February 2019.

28

### WAY FORWARD – GRID INFRASTRUCTURE

- » Undertake and complete the detailed independent **specialist studies**.
- » Compile **BA reports** for the grid infrastructure.
- » Notify I&APs of the availability of the BA reports for review.
- » Make the BA reports available for a **30-day review period**.
- » **Record comments** raised during the PPP in the FBAR(s).
- » Submit **Final BA Reports** to DEA for approval.
- » Expected timing of report availability: TBC.

29

### PLEASE DIRECT COMMENTS TO:

**Nicolene Venter: Savannah Environmental**

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 f: +27 (0)86 684 0547  
 e: publicprocess@savannahsa.com  
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 Cnr Woodlands Drive & Western Service Road  
 Woodmead, 2191

30