

MEETING NOTES

Job Title	BioTherm Wind EIA's
Project Number	47579
DEA Reference	14/12/16/3/3/2/967
Number:	14/12/16/3/3/2/963
	14/12/16/3/3/2/962
Date	23 February 2017
Time	16:30
Venue	Community Hall, Matjiesfontein
Subject	Pubic Meeting for the Esizayo and Maralla Wind Energy Facilities
Client	BioTherm Energy (Pty) Ltd
Present	See Appendix A
Apologies	None
Distribution	As above

199 Bryanston Drive Bryanston 2191

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www.wspgroup.com www.pbworld.com

MATTERS ARISING

1.0 WELCOME AND INTRODUCTION

- 1.1 Ashlea Strong (AS) welcomed the local community and apologised that the presentation was not visible due to the light coming in from the windows.
- 1.2 AS introduced the project team and explained their roles.

2.0 SCOPING & EIA PHASE

- 2.1 AS: As we are at the beginning of the Project we are still conducting the Environmental Impact Assessment (EIA) Process. Following the granting of the Environmental Authorisation (EA) the project will be submitted into the next Renewable Energy Independent Power Producer Programme (REIPPP) bidding window. Therefore, it is still 2 to 3 years until the project commences, if it receives preferred bidder status.
- 2.2 AS stressed that this meeting was for the EIA Phase we are running and jobs are not yet available, as the project is not yet approved.

3.0 TECHNICAL DESCRIPTION & LOCATION

- 3.1 Mohammed Yusuf (MY) from BioTherm was asked to give an overview of the REIPPP and gave a short overview of BioTherm as company and that they have 3 existing operational facilities, 2 solar facilities in the Northern Cape and 1 WEF in the Western Cape.
- 3.2 MY: BioTherm are applying to build three WEFs. In order for us to do this we need to first obtain the EA. This is where we are now. Once we have the EA we will wait until the government announces a new bidding window and then BioTherm will submit their bid. We then wait for the government (Department of Energy) to select a preferred bidder and then the project will commence. This can take a number of years.
- 3.3 If BioTherm are awarded preferred bidder status for one of these 3 WEF then they will come back to the community and provide an update.

ACTION

3.4	There are a number of other projects being planned in the area and any of them	
J. 4	may be awarded preferred bidder status. Right now we are just looking at the potential environmental impacts.	
4.0	IMPACT IDENTIFICATION AND ASSESSMENT	
4.1	Specialist Studies:	
	 Social, Land Capacity and Wetlands Biodiversity Avifauna Bats Heritage Palaeontology Visual Social Traffic Noise 	
5.0	PROJECT LOCATION	
5.1	AS gave a short overview about where the projects are located in terms of Matjiefontein location and which farms they are located on.	
6.0	PUBLIC PARTICIPATION PROCESS	
5.1	 Public Participation undertaken to date: Pre-application Consultation with DEA Newspaper adverts in: The Courier (9 September 2016) Die Noordwester (8 September 2016) Email notification of I&APs Site Notices placed at the entrance to the site DSR for 30 day public review Public Meetings (Laingsburg and Sutherland)- we didn't realise that there was such a big community in Matjiesfontein so we decided to hold a meeting here this time DEIR out for 30 day comment and review (2 February – 2 March 2017). The document is available in the library. Public Meetings- this is where we are now. We have met with the municipalities already. 	
7.0	DISCUSSION	
7.1	AS invited Simphiwe Kulu (SK) to come and talk about the socio-economic aspects of the projects.	
7.2	 SK: Under the REIPPP there are certain requirements the Preferred Bidder will need to meet. These include: > Employment from the local community; > Economic Development; and > Enterprise Development. A percentage of the project revenue needs be committed to the local community. BioTherm focus on: 	
7.3	 Community upliftment Education BioTherm have existing operational facilities, 2 solar facilities in the Northern Cape and 1 WEF in the Western Cape. For these projects we have focused on developing the communities through education, welfare and training. We currently have 30 students with Bursary's under BioTherm's bursary programme. 	

MATT	ERS ARISING	ACTION
7.4	AS: We have agreed to supply the municipality with a list of skills that would be required for a WEF, not just for BioTherm but any facility that will received preferred bidder status. The list of skills is included in Appendix C .	
7.5	MY: Please read over the documents that are at the library and then ask any questions you may have.	
8.0	QUESTIONS	
8.1 8.2	Community member (CM): How will the bursaries work? SK: Bursaries are an example of one of the projects that we implement as part of our socio-economic development initiatives for our current operational projects. A project such as a bursary programme would only be implemented once the facility becomes operational and is earning a revenue, where a certain percentage is allocated for implementing socio-economic development projects in the communities surrounding the project site. Making specific reference to our current operational projects, the bursary programme is run internally. The programme is advertised within the community through posters detailing information on the bursary and inviting candidates that meet the criteria to apply. This is then evaluated internally and all qualifying candidates are informed whether they are successful or not. Please note that this was merely an example of the type of projects that could be implemented and a decision of implementing such a project is always dependent on the socio-economic needs of the community at a given point in time.	
8.3	AS: The attendance register that everyone signed will be used to notify the community if the project is awarded preferred bidder status and moves forward.	
8.4	CM: Can all information please be sent to Jerome as the information will stop at the municipality. We don't trust them.	
8.5	AS: Yes sure please make a mark next to Jerome's name so that we can contact him.	
8.6	CM: How many jobs will be created?	
8.7	MY: We don't know at this point. It varies with every project.	
8.8	CM: Is there an age restriction with jobs?	
8.9 8.10	MY: No not that they are aware of. CM:Will these jobs and bursaries be separate from the municipality or will the	
0.10	municipality select the people?	

8.11 MY: Yes it is separate from the municipality, BioTherm work directly with the community.

9.0 CLOSING

- 9.1 AS thanked the community for listening and reminded everyone to sign the attendance register to ensure that they are registered on the database
- 9.2 Meeting closed at 17:00.

Appendix A: Attendance Register

Name	Company Name	Contact Details	Signature
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ATTENDANCE REGISTER 23 February 2017

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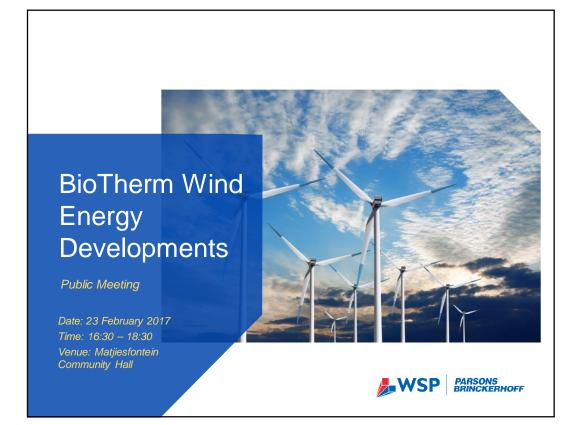
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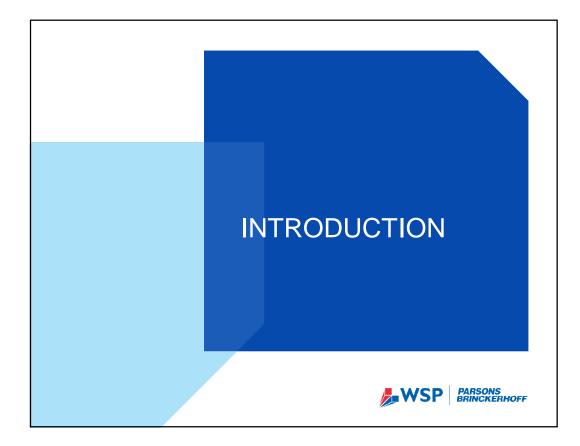
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Appendix B: Presentation









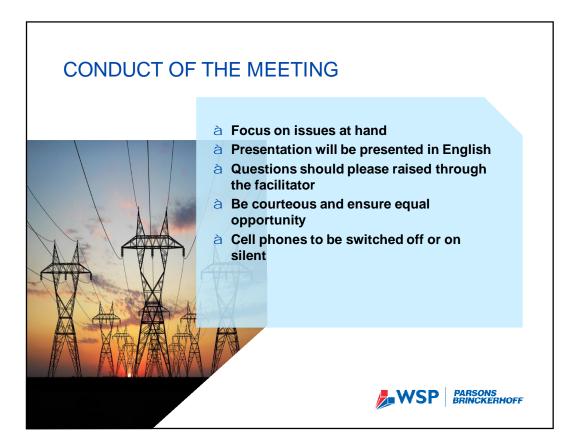
PURPOSE OF THE MEETING

a Provide stakeholders with information regarding:

- § The proposed project
- § The Environmental Impact Assessment (EIA) process to date
- § Findings of the Draft Environmental Impact Report (DEIR)
- Provide stakeholders with the opportunity to raise issues regarding the potential impacts of the project on the environment
- Provide an opportunity for stakeholders to interact with the project team

WSP

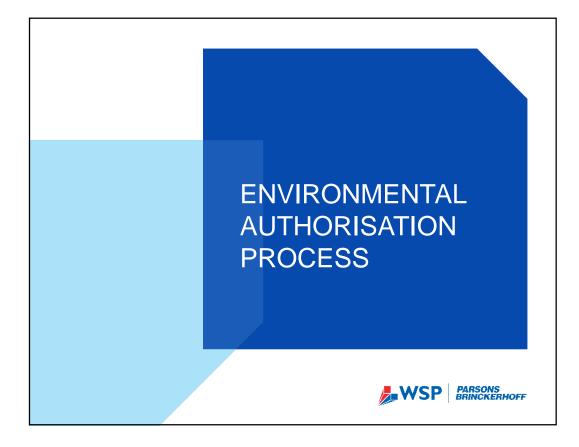
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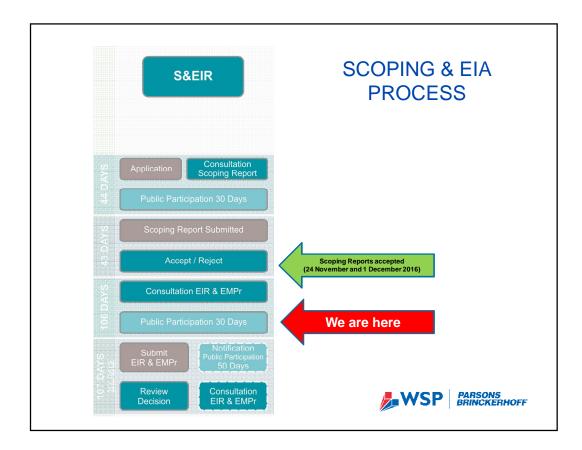


RESPONSIBILITIES

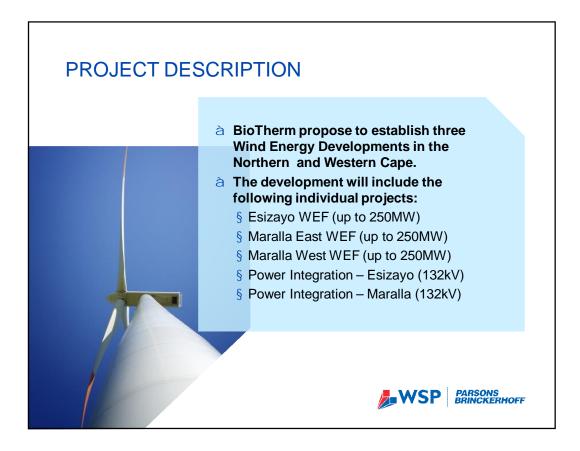
Roleplayer	Responsibility
Applicant (BioTherm)	 Appoint suitable, independent EAP Ensure adequate resources are available to conduct an effective, efficient & equitable S&EIR process Ensure that the EAP is provided with relevant information to undertake the S&EIR process effectively Ensure that the EAP provides all relevant information to the Authorities
EAP (WSP)	 Be independent with no vested interest Have the necessary qualifications & experience Responsible for authorisation process, information & reports Provide relevant & objective information to the authorities, the stakeholders & the proponent Ensure public participation process (PPP) is undertaken Ensure all issues raised are addressed or responded to
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Roleplayer	Responsibility
Stakeholders	 Provide input & comment during the S&EIR process Review of reports Draft Scoping Report (DSR) Environmental Impact Report (EIR) Environmental Management Programme (EMPr) Provide input & comment within specific timeframes
Decision-making Authority (Department of Environmental Affairs)	 Efficient & expedient in evaluating proposals Compliance with regulatory requirements Inter-departmental co-operation & consultation Consultation with the Applicant & the Consultant Evaluation/review & decision-making Requiring sufficient detail to make informed decisions

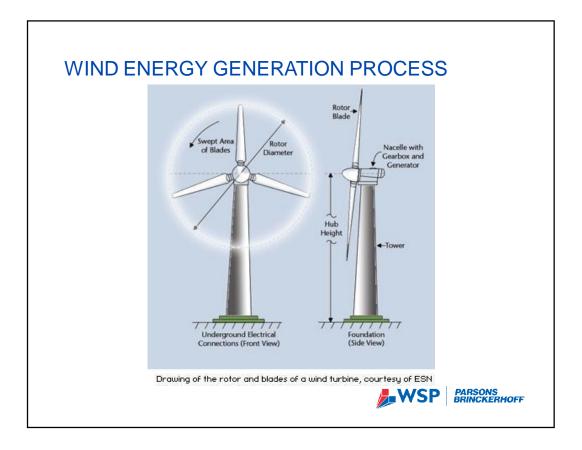








Generation Capacity	Up to 250 MW
Number of turbines	Up to 125 (Revised Layout includes 56 Turbines)
Area occupied by each turbine	0.5 ha (85m x 60m)
Turbine hub height	Up to 120m
Rotor Diameter	Up to 150m
Width of internal roads	Between 4.0m and 6.0m, however this may increase to 8m on bends
Footprint of internal onsite substation	150m x 150m
Onsite substation capacity	Up to 132kV
Width of the powerline servitude	31m (15.5m either side)
Powerline tower types and height	Tower (suspension / strain) / Steel monopole structure, which may be self-supported or guyed suspension.



PROJECT LOCATION

Esizayo Development Location

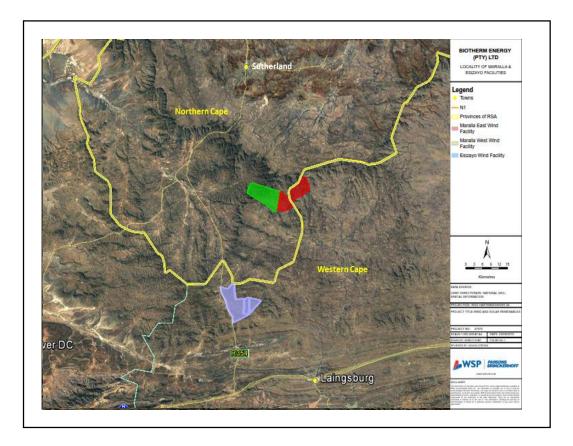
FARM NAME & NUMBER	Farm size (ha)
Portion 1 of Aanstoot Farm No. 72	762.42 ha
Annex Joseph's Kraal Farm No.84	913.32 ha
Aurora Farm No. 285	4 385.29 ha

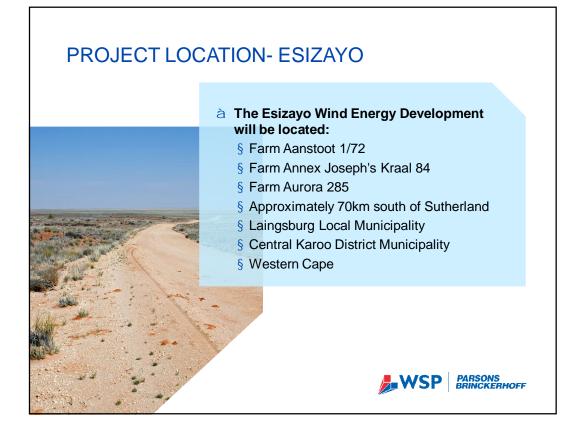
Maralla East Development Location

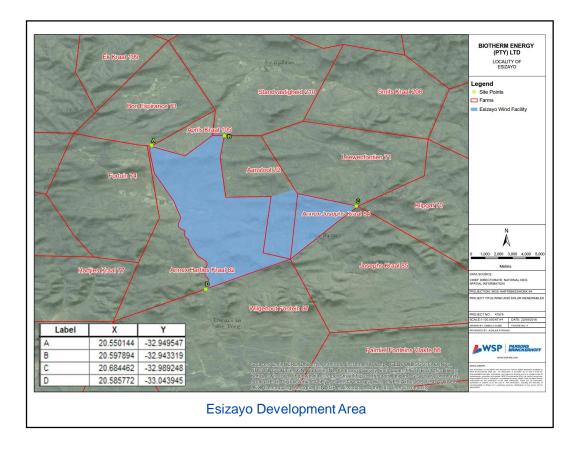
FARM NAME & NUMBER	Farm size (ha)
Farm Welgemoed 268, Remainder	2 649 ha
Farm Schalkwykskraal 204, Remainder	1 056 ha
Farm Drie Roode Heuvels 180, Remainder	3 929 ha

Maralla West Development Location

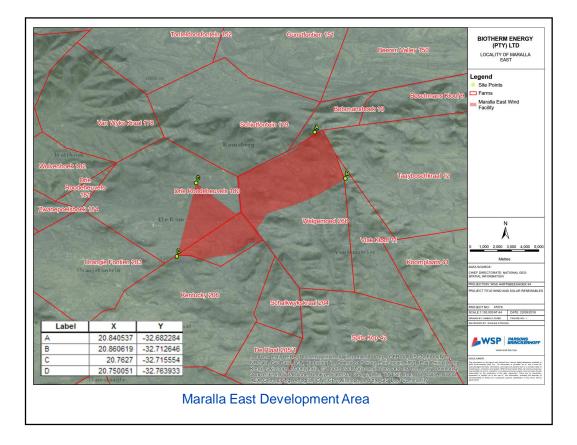
FARM NAME & NUMBER	Farm size (ha)
Farm Drie Roode Heuvels 180, Remainder	3 929 ha
Farm Annex Drie Roode Heuvels 181, Remainder	329 ha
Farm Wolven Hoek 182, Portion 1	763 ha
Farm Wolven Hoek 182, Portion 2	625 ha



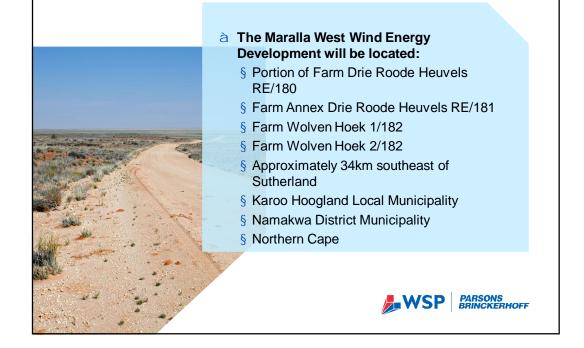


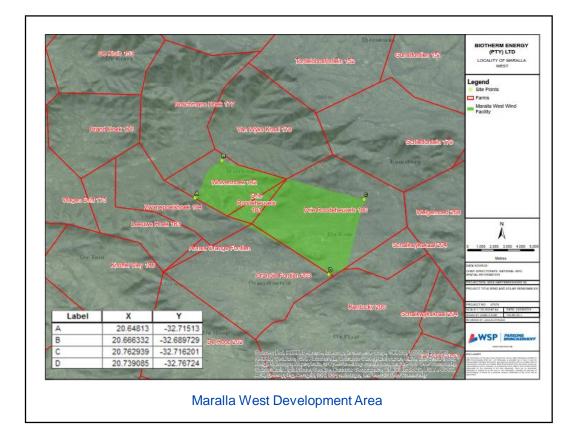


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PROJECT LOCATION- MARALLA WEST







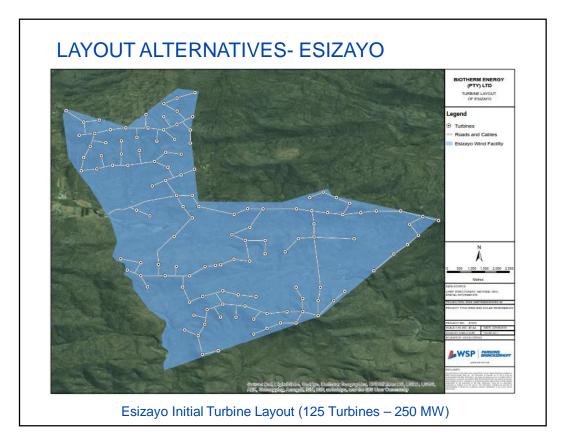
LEGAL REQUIREMENTS	
Relevant Act	Competent Authority
National Environmental Management Act (No. 107 of 1998) (NEMA)	Department of Environmental Affairs (DEA)
An environmental authorisation is required prior to the establishment of the Propose	d Projects
A full S&EIR Process is required to be conducted for the WEF Projects	
• A Basic Assessment is required to be conducted for the power integration projects	
Listed Activities triggered under Government Notice Regulation (GNR) 983, 984 and	1985 of 2014
National Water Act (No. 36 of 1998)	Department of Water and Sanitation
The following water uses have been identified as potentially applicable:	
• Section 21 (a) and 21 (b)	
• Section 21 (c) and 21 (i)	
Water Use Licence or General Authorisation required prior to the establishment of th	e Proposed Projects
National Environmental Management: Biodiversity Act, 2004 (No. 10 of 2004)	
• The are Critical Biodiversity Areas (CBAs) in the study areas.	
National Heritage Resource Act (No. 25 of 1999)	
A Heritage Impact Assessment (HIA) will be undertaken looking at Archaeology, Her mentioned projects	itage and Palaeontology for each of the above
Renewable Energy Development Zone	
The project areas fall within the Komsberg Wind REDZ	

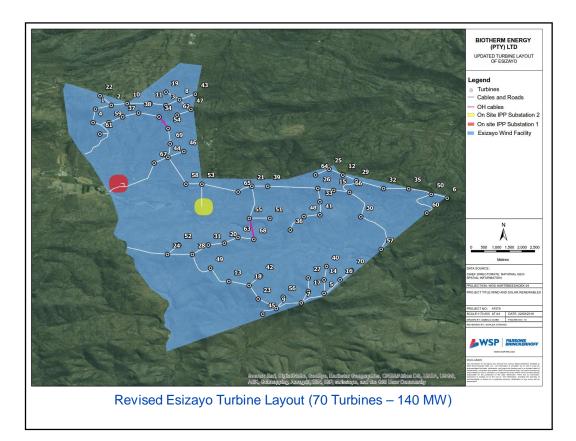
Relevant Water Use	Description	Applicability			
Section 21 (a)	Taking water from a water resource	In the event that ground water abstraction is required for operational activities			
Section 21 (b)	Storage of raw water	In the event that the storage of raw water is required for operational activities			
Section 21 (c)	Impeding or diverting the flow of water in a watercourse	In the event that the powerlines or			
Section 21 (i)	Altering the bed, banks course or characteristics of a water course	In the event that the powerlines or access roads cross a watercourse, drainage line or wetland area or if a turbine is constructed within 500m a watercourse, drainage line or wetland			

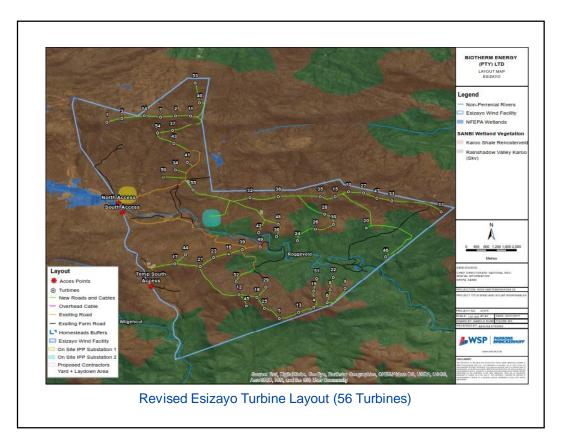
Project Name	Listing Notice	Activit	ies Triggere	ed				
Maralla West,	GNR 983	11(i)	12 (xii) (a&c)	19(i)	24(ii)	28(ii)	30	56
Maralla East and Esizayo	GNR 984	1	15	-	-	-	-	-
	GNR 985	4	10	12	14	18	23 (iii)	-
Power	GNR 983	11(i)	12 (xii) (a&c)	19(i)	27	28(ii)	30	-
Integration	GNR 985	4	12	14	-	-	-	-
	GNR 985	4	12	14	-	-	-	-

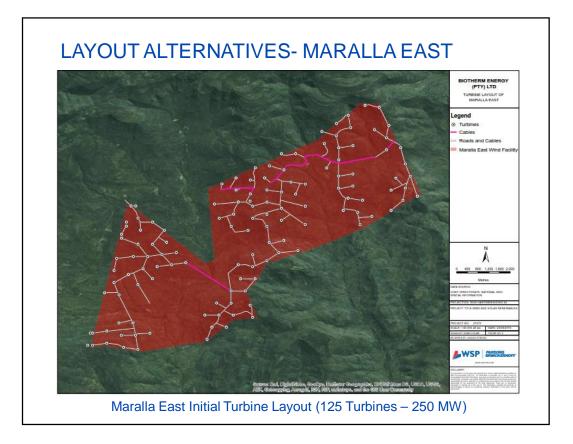


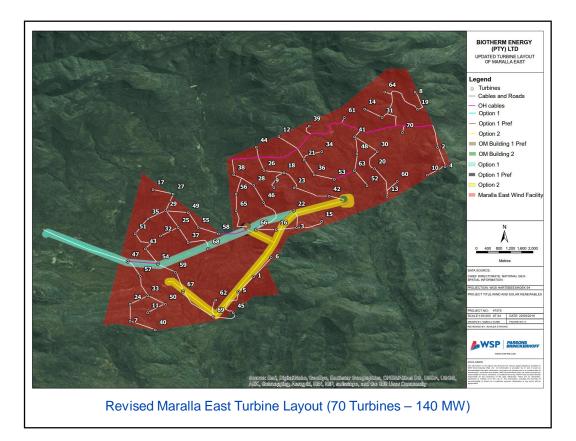
DEVELOPMENT AREA ALTERNATIVES	
Site Selection was based on the following factors:	
•Google Earth •SANBI BGIS •FEPA, SEA •Other EIAs	
Resources Factors • Satellite Data • Onsite Measurements	
Current Capacity -Future Capacity -Stability -Stability -Substations/Powerlines	
•Climate •Topography •Site Acess •Competition •Existing Environmental Authorisations	
Land Owner Factors • Compensation • Competition • Competition • Competition • Competition • Competition • Competition • Competition • Competition	

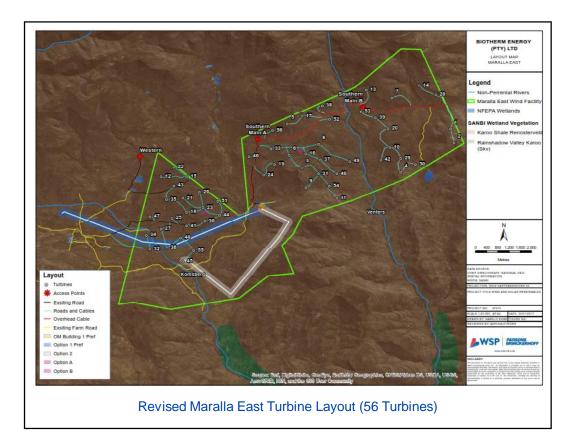


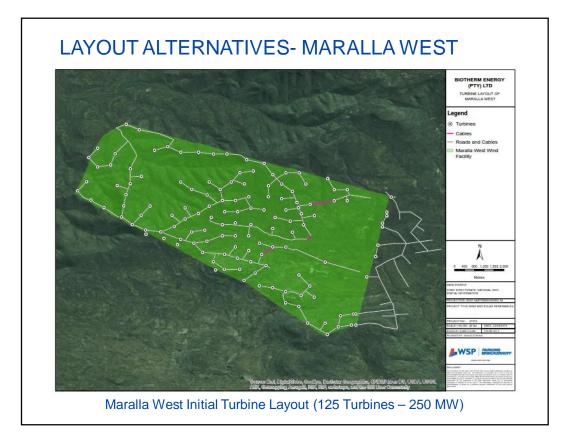


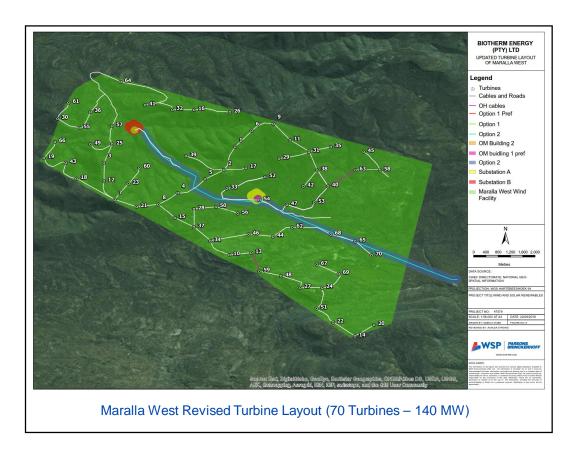


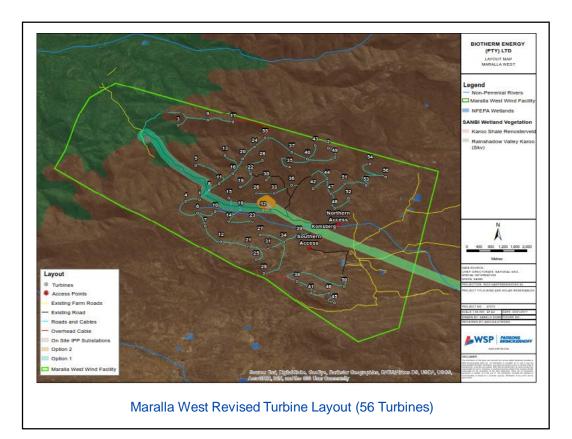


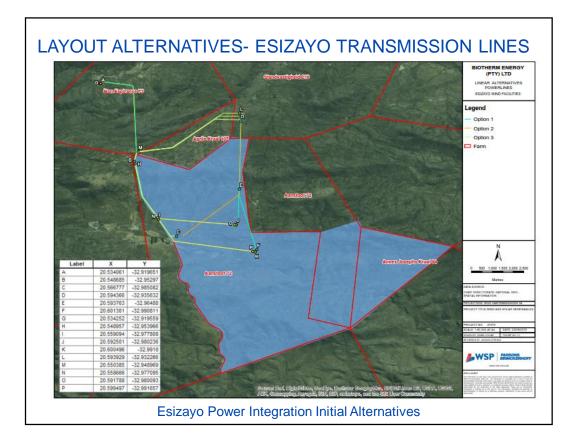


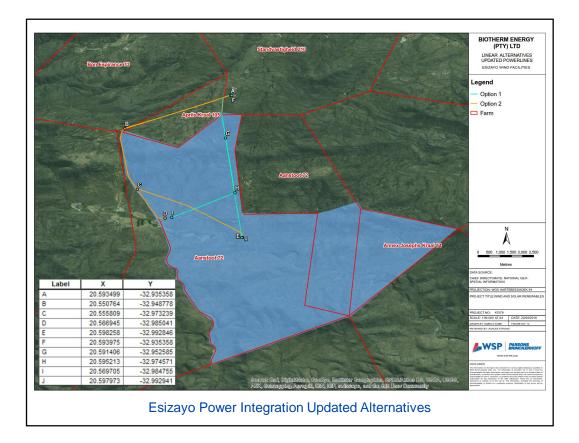


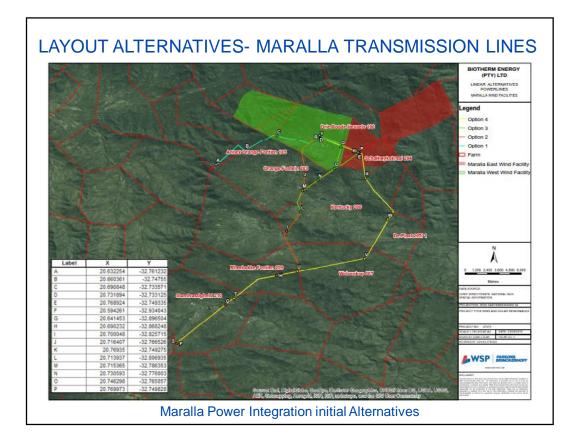


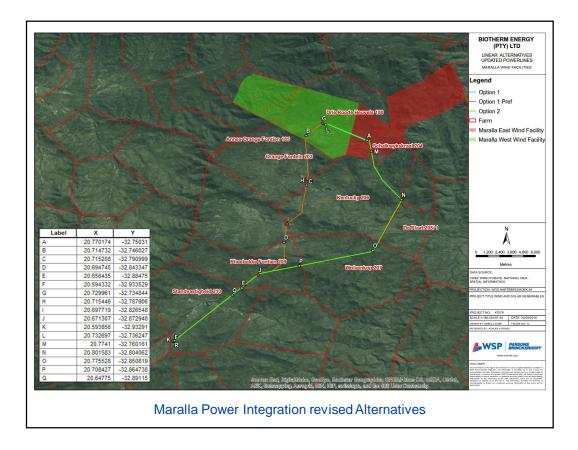














SPECIALIST FIELD	COMPANY NAME	TEAM MEMBERS	ASSESSMENT IN EIA PHASE
Soil, Land Capability and Wetlands	WSP Environmental (Pty) Ltd	Bruce Wickham, Gerg Matthews	Yes
Biodiversity	Simon Todd Consulting	Simon Todd	Yes
Avifauna	Chris van Rooyen Consulting	Chris van Rooyen, Albert Froneman	Yes
Heritage	ACO Associates	Tim Hart, Lita Webley, David Halkett	Yes
Palaeontology	Natura Viva	John Almond	Yes
Visual	-	Belinda Gebhardt	Yes
Social	WSP Environmental (Pty) Ltd	Danielle Sanderson, Hillary Konigkramer	Yes
Traffic	WSP Group Africa (Pty) Ltd	Christo Bredenhann	Yes
Noise	WSP Environmental (Pty) Ltd	Kirsten Collett	Yes

Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
SLC1	Loss of land (including wetlands) previously used for grazing.		Negative	Medium	Low
SLC2	Vegetation clearance, soil disturbance and high traffic movement on site, resulting in a higher potential for soil erosion	Construction	Negative	Low	Low
SLC3	Potential spillage of hazardous substances		Negative	Low	Low
SLC4	Loss of land (including wetlands) previously used for grazing.		Negative	Medium	Low
SLC5	Vegetation clearance, soil disturbance, and increased traffic movement on site, resulting in a higher potential for soil erosion	Operation	Negative	Low	Low
SLC6	Potential land contamination from hazardous substances		Negative	Low	Low
SLC7	Increased potential of soil erosion due to soil disturbance and a high traffic movement on site.	De-	Negative	Low	Low
SLC8	Potential spillage of hazardous substances	commissioning	Negative	Low	Low

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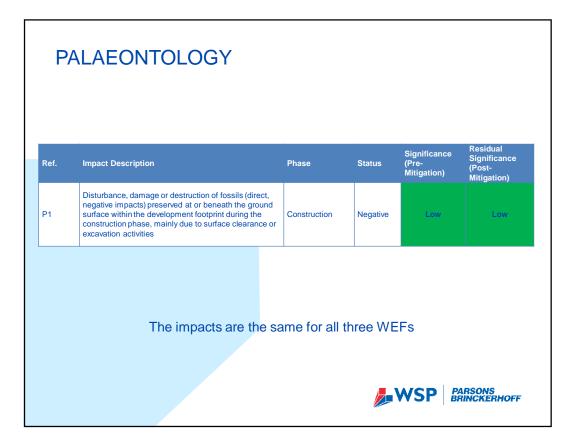
Ref.	Impact Description	Phase	Status	Significance (Pre-Mitigation)	Residual Significance (Post-Mitigation)
BIO1	Impacts on vegetation and protected plant species		Negative	Medium	Medium
BIO2	Faunal impacts due to construction activities	Construction	Negative	Medium	Medium
BIO3	Increased Soil Erosion risk during construction	-	Negative	Medium	Low
BIO4	Faunal impacts due to operational activities of the wind farm such as noise, and human presence during maintenance activities	Operation	Negative	Medium	Medium
BIO5	Erosion		Negative	Medium	Low
BIO6	Alien Plant Invasion		Negative	Low	Low
BIO7	Faunal impacts due to decommissioning of the wind farm such as noise, and operation of heavy machinery on-site	De- commissioning	Negative	Medium	Low
BIO8	Erosion	commissioning	Negative	Medium	Low
BIO9	Alien Plant Invasion	1	Negative	Medium	Low

				Esizay	/o WEF	Maralla Eas W	st and Wes EF
Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)	Significanc e (Pre- Mitigation)	Residual Significar e (Post- Mitigatior
AV1	Displacement of priority species due to disturbance during construction operations	Construction	Negative	Medium	Medium	Medium	Medium
AV2	Priority species mortality due to collision with the turbines		Negative	High	Medium	High	Medium
AV3	Displacement of priority species due to habitat transformation		Negative	Medium	Low	Medium	Low
AV4	Priority species mortality due to collision with the on-site powerlines	Operation	Negative	Medium	Medium	High	Medium
AV5	Priority species mortality due to electrocution on the on-site powerlines		Negative	Medium	Low	Medium	Low
AV6	Displacement of priority species due to disturbance during decommissioning operations	De- commissioning	Negative	Low	Low	Low	Low

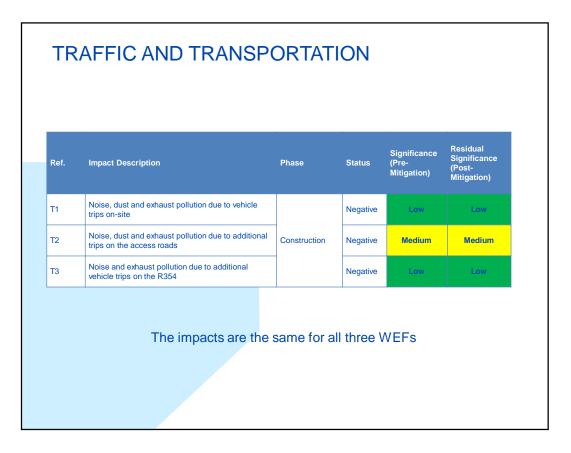
Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
BAT1	Destruction of bat roosts due to earthworks and blasting -	Construction	Negative	Medium	Low
BAT2	Loss of foraging habitat.		Negative	Medium	Low
BAT3	Bat mortalities due to direct blade impact or barotrauma during foraging activities (not migration).	Operation	Negative	High	Medium
BAT4	Artificial Lighting	-	Negative	Medium	Low
BAT5	Loss of foraging habitat.	De- commissioning	Negative	Medium	Low
	The impacts are the s	ame for all t		WCD	PARSONS

Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
SW1	Alterations of flow regimes of watercourses,		Negative	Medium	Low
SW2	Increased potential of soil erosion due to vegetation clearance, soil disturbance and a high traffic movement on site. Subsequent potential sedimentation of watercourses.	Construction	Negative	Low	Low
SW3	Potential land contamination from hazardous substances		Negative	Low	Low
SW4	Temporary potential degradation of wetland habitat due to the proposed positioning of road access		Negative	Medium	Low
SW5	Alterations of flow regimes of watercourses		Negative	Medium	Low
SW6	Increased potential of soil erosion due to vegetation clearance, and more run-off from harden surfaces (i.e. roads). Subsequent potential sedimentation of watercourses.	Operation	Negative	Low	Low
SW7	Potential land contamination from hazardous substances.		Negative	Low	Low
SW8	Alterations of flow regimes of watercourses, in close proximity to the site, or that is proposed to be traversed by roads.	2	Negative	Medium	Low
SW9	Increased potential of soil erosion due to soil disturbance and a high traffic movement on site.	De- commissioning	Negative	Low	Low
SW10	Potential land contamination from hazardous substances.		Negative	Low	Low

Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
ESIZAY	0				
H1	Impacts to buried archaeological material and graves		Negative	Low	Low
H2	Substation 1 will result in the destruction of South African War Military Outpost	Construction	Negative	Medium	Low
H3	Access road ,au damage or destroy the Nuwerus Cemetery		Negative	Medium	Low
MARAL	LA EAST				
H1	Impacts to ruined settlement and graveyard on public access road through De KOM		Negative	Medium	Low
H2	Impacts to late Stone Age sites along river bed	Construction	Negative	Medium	Low
H3	Impacts to the Farm House of Wolvenhoek		Negative	Medium	Low
MARAL	LA WEST	1			
H1	Impacts to a graveyard on the Komsberg River, Sckalkwykskraal		Negative	Medium	Low
H2	Impacts to a 19 th centuary stone stockpost and kraal on the Komsberg River, Sckalkwukskraal	Construction	Negative	Medium	Low
H3	Impacts to graves and a rock art site on Venters River, Welgemoed		Negative	Medium	Low

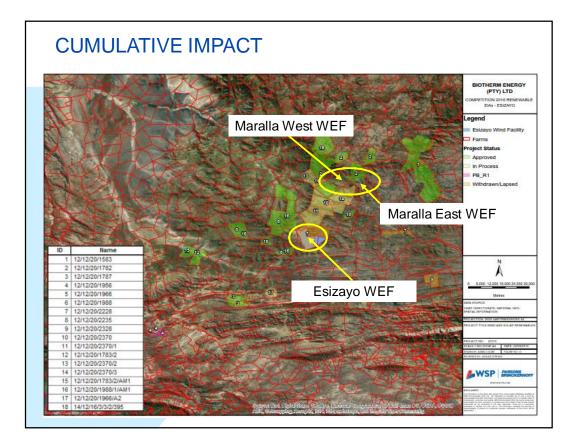


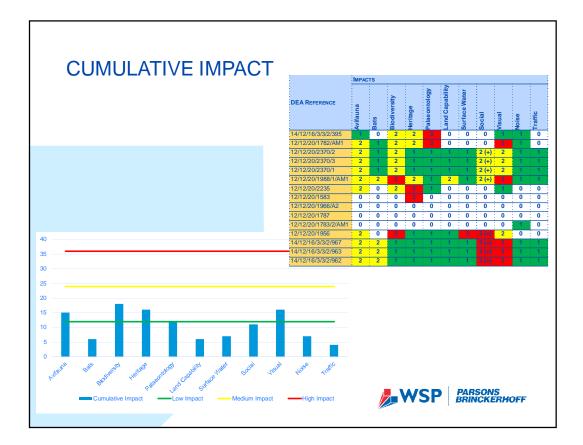
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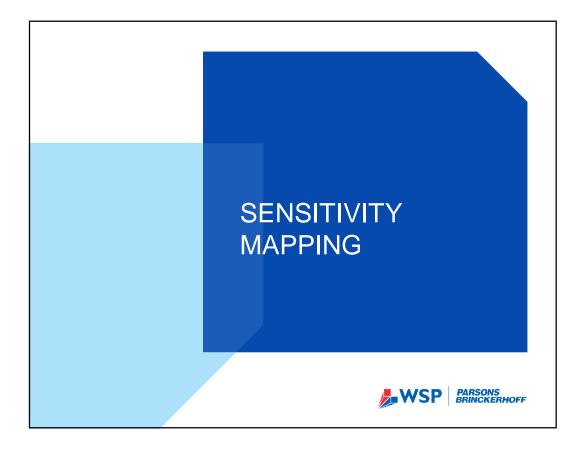


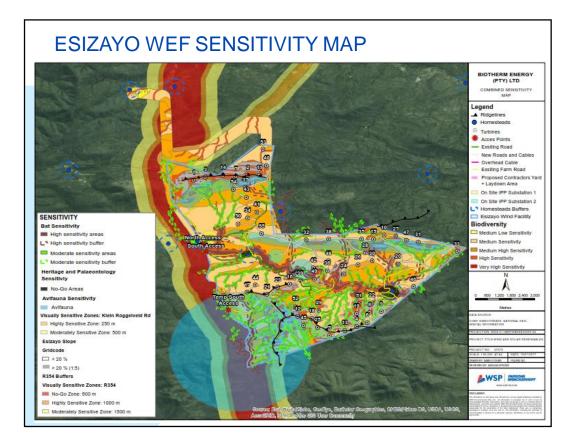
					Maralla West EF	Maralla	East WEF
Ref.	Impact Description	Phase	Status	Significanc e (Pre- Mitigation)	Residual Significanc e (Post- Mitigation)	Significan ce (Pre- Mitigation)	Residual Significa ce (Post- Mitigatio)
N1	Acoustic impact on residential receptors	Construction	Negative	Medium	Low	Medium	Low
N2	Acoustic impact on residential receptors	Operation	Negative	Medium	Low	Low	Low
N3	Acoustic impact on residential receptors	De- commissioning	Negative	Medium	Low	Medium	Low

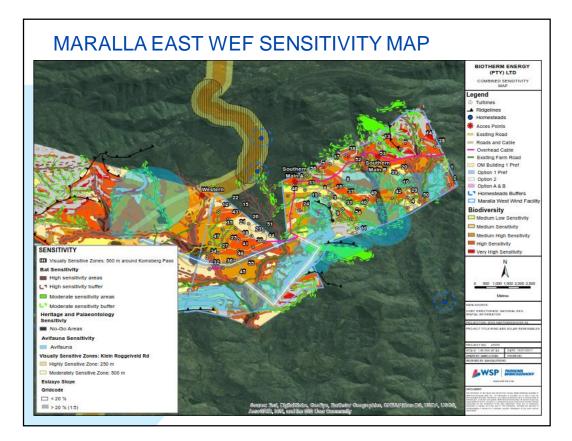
Ref.	Impact Description	Phase	Status	Significance (Pre-Mitigation)	Residual Significance (Post-Mitigation)
SE1	Increase in Employment Opportunities	Construction	Positive	Medium	High
SE2	Increased Economic Development Opportunities		Positive	Medium	High
SE3	Disruption due to influx of job seekers		Negative	Medium	Medium
SE4	Increase in communicable diseases and reduced public health		Negative	Medium	Medium
SE5	Change in sense of place		Negative	Medium	Low
SE6	Nuisance from noise, dust and traffic disturbances		Negative	Medium	Low
SE7	Increased risk to neighbouring land users		Negative	Low	Low
SE8	Increased risk of veld fires		Negative	Medium	Low
SE9	Increased employment opportunities	Operation	Positive	Medium	High
SE10	Increased economic development opportunities		Positive	Medium	Medium
SE11	Change in sense of place		Negative	Medium	Medium
SE12	Loss of permanent employment	De-	Negative	Medium	Low
SE13	Gain of short term employment	commissioning	Positive	Low	Medium
SE14	Nuisance from dust, noise and traffic		Negative	Low	Low
SE15	Increased risk to neighbouring land users		Negative	Low	Low
SE16	Increased risk of veld fires		Negative	Medium	Low

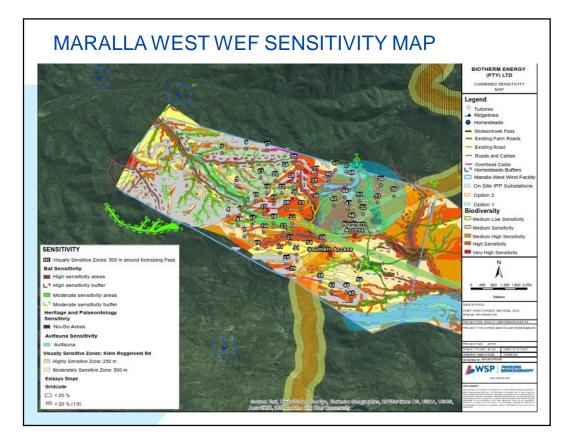














	C PARTICIPATION PROCE	55	1
io	Pre-application consultation with DEA	P	
Pre-Application	Newspaper Adverts	Р	
	Submit Application	P	
	Notification of IAPS	P	
ing	Newspaper Adverts	P	
Scoping	Site Notices	P	
	Draft Scoping Report – 30 days	P	
	Submit Final Scoping Report	Р	
-	EIR – 30 Days	Р	
EIA	Submit EIR for Decision		
_	Notification of decision		
Appeal	Appeal Process		
Ā	Must be submitted within 20 days from date of decision		

PUBLIC PARTICIPATION PROCESS TO DATE



à The Public Participation process has consisted of:

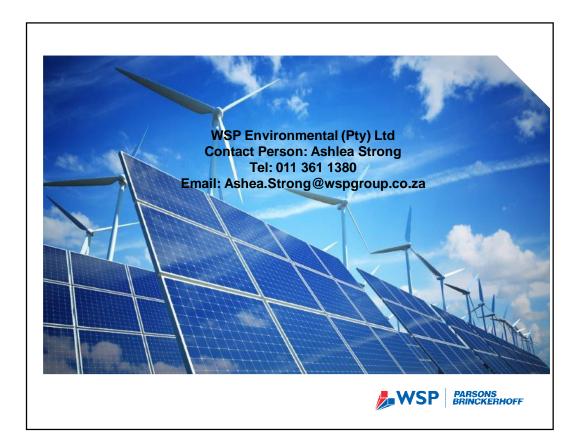
- § Pre-application Consultation with DEA
- § Newspaper adverts in:
 - The Courier (9 September 2016)
 - Die Noordwester (8 September 2016)
- § Email notification of I&APs
- § Site Notices placed at the entrance to the site
- § DSR for 30 day public review
- § Public Meetings
 - 29 September 2016 Laingsburg
 - 30 September 2016 Sutherland
- § DEIR for 30 day public review
- § Public Meetings
 - 23 February 2017 Matjiesfontein
 - 24 February 2017 Sutherland

WSP

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Activity	Anticipated Timeframe
Stakeholder Meetings	21 – 24 February 2017
Close of public review period	2 March 2017
Finalisation of DEIR and submission to authorities	3 - 28 March 2017
Authority review	31 March – 17 July 2017
Receipt of Environmental Authorisation (EA)	Mid – end July 2017
Appeal Period	20 days from receipt of the EA



Appendix C: List of Skills

Sub-station site manager

Site admin clerk H&S representative

Bricklayer

Ecologists

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Cc	nstruction	Operation
	Environmental coordinator Project manager Director Technical buyer Engineering manager Engineering director Site manager Engineer Logistic project manager Substation and OHL manager Telecontroller/telecommunications Management committee control General labourer HR/IR officer HSE manager Wind turbine technicians and assistants Climber Foremen/section foremen Carpenter Site supervisor Truck driver Surveyor Operator Managing director Site administrator Supply chain manager Buyer senior Commercial manger Construction manager	 Ecologists General workers Buyers Security guards Operations managers Bird specialists Bat specialists Data sorters Office assistants Office Administrators Technician/Junior technicians Assistant Engineer HR Director Operations and Maintenance Manager Buyer Seniors ED Director Commercial manager Engineers