

# APPENDIX E

## Pre-Consultation with the Competent Authority

- Appendix E.1: Pre-Application Meeting Request Form
- Appendix E.2: Pre-Application Meeting Presentation
- Appendix E.3: Pre-Application Consultation with DFFE





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## **E. 1: Pre-Application Meeting Request Form**



**environment, forestry  
& fisheries**

Department:  
Environment, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447- PRETORIA - 0001- Environment House - 473 Steve Biko, Arcadia- PRETORIA

**Template for the submission of documents:**

- 1) Reference Number if assigned: Reference numbers not assigned yet
- 2) Project Title: Scoping and Environmental Impact Assessment Processes for the Proposed Development of three Wind Energy Facilities; Kwagga 1 (279 MW), Kwagga 2 (341 MW) and Kwagga 3 (204.6 MW), near Beaufort West in the Western Cape Province. Note that all three projects will be discussed in one pre-application meeting in order to maximise on efficiency, however three separate Application Forms for Environmental Authorisation will be submitted to the DEFF following the pre-application meeting, based on the outcome of the meeting
- 3) Environmental Assessment Practitioner Company: Council for Scientific and Industrial Research (CSIR)
- 4) Applicant: ABO Wind renewable energies (Pty) Ltd
- 5) Date Submitted: 10 November 2020
- 6) Documents Submitted: PRE-APPLICATION MEETING REQUEST FORM
- 7) Do you agree to the rules and format on how documents are to be submitted? (Yes/No) Yes

**Check List:**

- Documents uploaded in the correct manner, i.e. email or Novel Filr: ☒
- Are all the documents in one folder: ☒
- Is the email with this document being sent: ☒
- Does the email have a correct and appropriate subject line: ☒
- Are each file in the respective folders named correctly: ☐
- Does the file have a correct folder structure: ☐
- Is one ZIP folder uploaded per project: ☐





## PRE-APPLICATION MEETING REQUEST

	(For official use only)
Pre-application meeting Reference Number:	
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

### PROJECT TITLE

- Scoping and Environmental Impact Assessment for the Proposed Development of a 279 MW Wind Energy Facility (i.e. Kwagga 1), near Beaufort West, Western Cape
- Scoping and Environmental Impact Assessment for the Proposed Development of a 341 MW Wind Energy Facility (i.e. Kwagga 2), near Beaufort West, Western Cape
- Scoping and Environmental Impact Assessment for the Proposed Development of a 204.6 MW Wind Energy Facility (i.e. Kwagga 3), near Beaufort West, Western Cape

**Note from the CSIR:** This pre-application meeting request form is being submitted to discuss three Scoping and Environmental Impact Assessment Projects (as listed above). Note that all three projects will be discussed in one pre-application meeting in order to maximise on efficiency, however three separate Application Forms for Environmental Authorisation will be submitted to the DEFF following the pre-application meeting, based on the outcome of the meeting.

### Kindly note the following:

1. This form must always be used for pre-application meeting requests where this Department is the Competent Authority.
2. This application form is current as of **June 2020**. It is the responsibility of the Applicant / Environmental Assessment Practitioner (EAP) to ascertain whether subsequent versions of the form have been published or produced by the Competent Authority. The latest available Departmental templates are available at <https://www.environment.gov.za/documents/forms>.
3. The onus on Applicant/EAP to determine all applicable listed activities that would require Environmental Authorisation prior to the commencement of the construction activities. Should any revision of your development comprise any other activities that constitute a listed activity/ies as defined in GN R983, R984 and R985 of 04 December 2014, as amended, it must also form part of the Application for Environmental Authorisation.
4. Be reminded that it is not compulsory in terms of the EIA Regulations that a pre-application meeting must take place prior to an application being lodged with the Department.
5. This form must be lodged with the Department at least **one (1) month** prior to the requested meeting date.
6. Please note that the proposed date and time will be confirmed prior to the meeting.
7. A detailed motivation and agenda must be appended to this meeting request.
8. This form must be marked **"for Attention: Chief Director: Integrated Environmental Authorisations"** and submitted to the Department via email.
9. All fields are compulsory.
10. The required information must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing. A legible font type and size must be used when completing the form. The font size should not be smaller than 10pt (e.g. Arial 10).



11. Note that the EAP is required to submit minutes of the meeting to the Department for approval as per the timeframes agreed to in the meeting.
12. The Department reserves the right to refuse the pre-application meeting based on the information provided in this request.

#### Departmental Details

<p><b>Online Submission:</b> EIAApplications@environment.gov.za</p> <p>Please read the process for uploading files to determine how files are to submitted to this Department.</p> <p><b>Postal address:</b> Department of Environment, Forestry and Fisheries Attention: Chief Director: Integrated Environmental Authorisations Private Bag X447 Pretoria 0001</p> <p><b>Physical address:</b> Department of Environment, Forestry and Fisheries Attention: Chief Director: Integrated Environmental Authorisations Environment House 473 Steve Biko Road Arcadia</p> <p>Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at: Email: EIAAdmin@environment.gov.za</p>
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#### 1. APPLICANT CONTACT DETAILS

Name of the Applicant:	ABO Wind renewable energies (Pty) Ltd		
RSA Identity/ Passport Number:	Not Applicable		
Name of contact person for applicant (if other):	Robert Invernizzi		
RSA Identity/ Passport Number:	7611035145082		
Responsible position, e.g. Director, CEO, etc.:	Team Leader: Project Development		
Company/ Trading name (if any):	Not Applicable		
Company Registration Number:	2011/135507/07		
BBBEE status:	Not Applicable		
Physical address:	Unit B1, Mayfair Square, Century Way, Century City, Cape Town, 7441		
Postal address:	Unit B1, Mayfair Square, Century Way, Century City, Cape Town		
Postal code:	7441	Cell:	073 265 8575
Telephone:	021 276 3620	Fax:	086 595 4668
E-mail:	Rob.Invernizzi@abo-wind.com		

**Note from the CSIR:** ABO Wind renewable energies (Pty) Ltd is the holding company. Prior to the submission of the Application Forms for Environmental Authorisation, various subsidiary companies will be registered and will serve as the Project Applicants. Details of the subsidiary companies will be provided in the separate Application Forms for Environmental Authorisation.

## 2. ENVIRONMENTAL ASSESSMENT PRACTITIONER CONTACT DETAILS

Company of Environmental Assessment Practitioner:	Council for Scientific and Industrial Research (CSIR)		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	2	Percentage Procurement recognition
EAP name:	Lizande Kellerman		
EAP Qualifications:	<ul style="list-style-type: none"> <li>BSc Zoology &amp; Entomology</li> <li>BSc Hons Botany</li> <li>MSc Botany</li> </ul>		
Professional affiliation/registration:	Registered Professional Natural Scientist (400076/10) with the South African Council for Natural Scientific Professions (SACNASP)		
Physical address:	11 Jan Celliers Street, Stellenbosch, 7599		
Postal address:	PO Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 799 0949
Telephone:	021 888 2489	Fax:	021 888 2693
E-mail:	<a href="mailto:LKellerman@csir.co.za">LKellerman@csir.co.za</a> <a href="mailto:DMoodley1@csir.co.za">DMoodley1@csir.co.za</a>		

## 3. COMPETENT AUTHORITY

Identified Competent Authority to consider the application:	National Department of Environment, Forestry and Fisheries (DEFF)
Reason(s) in terms of S24C of NEMA:	The National DEFF, based in Pretoria, will be the Competent Authority (CA). This is based on a directive that was issued by the Department of Minerals and Energy in 2009 indicating that all energy-related Environmental Assessments must be fast-tracked and that the National DEA (now the DEFF) must be the CA.

## 4. MEETING DETAILS

Purpose of the meeting request	<p>The purpose of the meeting request is to introduce and discuss the following proposed three Scoping and Environmental Impact Assessment (S&amp;EIA) projects with the DEFF and to obtain confirmation on the proposed scope, approach, and schedule of the S&amp;EIA processes to be undertaken:</p> <ul style="list-style-type: none"> <li>S&amp;EIA for the Proposed Development of a 279 MW Wind Energy Facility (i.e. Kwagga 1), near Beaufort West, Western Cape;</li> <li>S&amp;EIA for the Proposed Development of a 341 MW Wind Energy Facility (i.e. Kwagga 2), near Beaufort West, Western Cape;</li> <li>S&amp;EIA for the Proposed Development of a 204.6 MW Wind Energy Facility (i.e. Kwagga 3), near Beaufort West, Western Cape</li> </ul> <p>In particular, the purpose of the pre-application meeting includes the following:</p> <ul style="list-style-type: none"> <li>To provide the DEFF with an overview of the project description for the abovementioned projects;</li> <li>To discuss and confirm the specialist assessments and compliance statements to be undertaken;</li> <li>To discuss and confirm the approach towards the specialist reporting;</li> </ul>
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	<ul style="list-style-type: none"> <li>To confirm the approach towards including a selection of Electrochemical Battery Energy Storage Systems in the project description;</li> <li>To discuss the proposed Public Participation Plan (PPP) which will be submitted to the DEFF for approval in terms of the Directions issued by the DEFF on 5 June 2020 in Government Notice 650 (regarding measures to prevent the spread of COVID-19 relating to National Environmental Management permits and licences); and</li> <li>To discuss and confirm the proposed project schedule and overall process for the S&amp;EIAs, including the applicable Listed Activities and Cumulative Impact Assessment approach (i.e. assess cumulative impacts based on a 50 km buffer and based on Renewable Energy projects with a positive Environmental Authorisation issued at the start of these S&amp;EIAs (i.e. November 2020)).</li> </ul>	
Any advice requested before from the Department on this project i.e. from IQ or via email (attached response received)	No	
Applicant Category	Application by Parastatal	
	Organ of State	
	Private Individual/Parties	✓
Application type	Application for EA	✓
	Application for Integrated EA	
	Application for Amendment EA	
Proposed meeting date and time-slot. Provide three alternative dates and time-slots (note that the Department requires at least a month due to logistical arrangements)		
<p><b>Note from the CSIR:</b> The CSIR acknowledges that the DEFF has a considerable number of applications to process. We are humbly requesting alternative dates prior to the one-month clause above based on the strategic nature of the project and the approaching Bidding Window of the Renewable Energy Independent Power Producer Procurement Programme (REIPPPP).</p>		
Date	Time-slot	
	Start time	End time
1. 25 November 2020	10H00	12H00
2. 26 November 2020	10H00	12H00
3. 30 November 2020	10H00	12H00
Duration of the meeting	2 Hours	
Estimated number of people attending meeting	4	

Please attach a proposed agenda as **APPENDIX 1**. If the Applicant or EAP intends to discuss several projects in one meeting, separate agendas must be drafted for each proposed project and the project details for each project. Please note that a detailed agenda is required.

**Note from the CSIR:** This pre-application meeting request form is being submitted to discuss three Applications for Environmental Authorisations. All applications will be discussed in one pre-application meeting in order to maximise on efficiency, however three separate Applications for Environmental Authorisation will be submitted to the DEFF following the pre-application meeting. The proposed projects have the same project components, and they take place on adjacent farm properties. Based on this, one single combined, detailed proposed agenda for the pre-application meeting has been compiled and included in **Appendix 1** of this pre-application meeting request form.

## 5. PROJECT DETAILS

Project description	<p>The Project Applicant, ABO Wind renewable energies (Pty) Ltd (hereinafter referred to as ABO Wind), is proposing to design, construct and operate three Wind Energy Facilities, south of Beaufort West in the Western Cape Province. The proposed projects will make use of wind turbine technology to generate electricity from energy derived from the wind. Each WEF will have a range of associated infrastructure, including an on-site substation comprising the IPP portion and the Eskom switching yard which will make use of a 33/132 kV transformer. ABO Wind is still investigating options for possible grid connection, from each of the WEFs to a major transmission station (MTS) or a collector substation built nearby by another developer e.g. Mainstream, and therefore a separate Environmental Assessment Process will be undertaken at a later stage once the grid connection and the power line routing has been confirmed.</p> <p>The proposed WEFs will be constructed on the following farm portions:</p> <ul style="list-style-type: none"> <li>▪ Remainder of the Farm Dwaalfontein Wes No. 377</li> <li>▪ Portion 3 of the Farm Tyger Poort No. 376</li> <li>▪ Portion 1 of the Farm Dwaalfontein Wes No. 377</li> <li>▪ Remainder of the Farm Dwaalfontein No. 379</li> <li>▪ Remainder of the Farm Wolwe Kraal No. 17</li> <li>▪ Portion 1 of the Farm Wolwe Kraal No.17</li> <li>▪ Portion 3 of the Farm Wolwe Kraal No.17</li> <li>▪ Portion 6 of the Farm Wolwe Kraal No.17</li> <li>▪ Portion 7 of the Farm Wolwe Kraal No.17</li> <li>▪ Portion 8 of the Farm Wolwe Kraal No.17</li> <li>▪ Portion 9 of the Farm Wolwe Kraal No.17</li> <li>▪ Portion 10 of the Farm Wolwe Kraal No.17</li> <li>▪ Portion 11 of the Farm Wolwe Kraal No.17</li> <li>▪ Portion 12 of the Farm Wolwe Kraal No.17</li> <li>▪ The Farm Annex Wolwe Kraal No. 18</li> <li>▪ The Farm Annex Welbedacht No.19</li> <li>▪ Portion 1 of the Farm Arthurs Kraal No. 386</li> <li>▪ Portion 2 of the Farm Arthurs Kraal No. 386</li> <li>▪ Portion 3 of the Farm Arthurs Kraal No. 386</li> <li>▪ The Farm Annex Taaibos No. 21</li> <li>▪ Portion 4 of the Farm Cyferfontein No. 115</li> </ul> <p>Each WEF will cover an approximate footprint of 250 hectares, however, this footprint could be further reduced during the planning stage. The larger area comprising all relevant farm portions for the three proposed WEFs will be studied by the specialists in order to identify and confirm features and sensitivities and features that need to be avoided. The location of the proposed facilities and the citing of the project infrastructure within the assessed larger study areas will be informed by the recommendations of the specialists and field work.</p> <p>Overall, three WEFs will be assessed, along with several alternate locations for three on-site substations and associated infrastructure. It is important to note at the outset that the exact specifications of the proposed project components will be determined during the detailed engineering phase (subsequent to the issuing of an EA, should such an authorisation be granted for each of the proposed projects), but that the information provided below is seen as the worst-case scenario for each project.</p> <ul style="list-style-type: none"> <li>▪ Wind turbines             <ul style="list-style-type: none"> <li>○ Each WEF will comprise of turbines, which have a hub height of up to 180 m and a rotor diameter of up to 200 m. Each turbine will have an output of</li> </ul> </li> </ul>
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	<p>approximately 6.2 MW. Each turbine will have a footprint of approximately 1 ha (which includes the crane pad). The temporary hardstand areas and construction period laydown areas cover approximately 15 ha and six (6) ha, respectively.</p> <ul style="list-style-type: none"> <li>• Kwagga 1 will comprise of 45 turbines and have a total installed generation capacity of up to 279 MW;</li> <li>• Kwagga 2 will comprise of 55 turbines and have a total installed generation capacity of up to 341 MW; and</li> <li>• Kwagga 3 will comprise of 33 turbines and have a total installed generation capacity of up to 204.6 MW.</li> </ul> <ul style="list-style-type: none"> <li>▪ Building Infrastructure <ul style="list-style-type: none"> <li>○ Each of the three WEFs may include: offices, operational and maintenance (O&amp;M) control centre, ablution facilities and guard houses (specific dimensions to be confirmed); <ul style="list-style-type: none"> <li>• Site offices will comprise of single and/or two-stacked containers and will cover a footprint of approximately one (1) ha.</li> <li>• The height of the O&amp;M buildings will be turbine-manufacturer specific and cover a footprint of approximately one (1) ha.</li> </ul> </li> <li>○ Each WEF is likely to have a single substation comprising the IPP portion and the Eskom switching yard which will make use of a 33/132 kV transformer. Each WEF might also include a position for a collection station. Therefore, multiple alternative footprint options have been provided for each WEF as ABO would aim to have at least two substation footprints within each WEF as a single "preferred" alternative. The footprint size of each alternative within each WEF is as follows: <ul style="list-style-type: none"> <li>• Kwagga 1 <ul style="list-style-type: none"> <li>- Alternative 1 footprint: 250 000 m<sup>2</sup></li> <li>- Alternative 2 footprint: 157 500 m<sup>2</sup></li> <li>- Alternative 3 footprint: 185 500 m<sup>2</sup></li> </ul> </li> <li>• Kwagga 2 <ul style="list-style-type: none"> <li>- Alternative 1 footprint: 250 000 m<sup>2</sup></li> <li>- Alternative 2 footprint: 250 000 m<sup>2</sup></li> <li>- Alternative 3 footprint: 175 000 m<sup>2</sup></li> <li>- Alternative 4 footprint: 227 500 m<sup>2</sup></li> <li>- Alternative 5 footprint: 250 000 m<sup>2</sup></li> <li>- Alternative 6 footprint: 250 000 m<sup>2</sup></li> </ul> </li> <li>• Kwagga 3 <ul style="list-style-type: none"> <li>- Alternative 1 footprint: 200 000 m<sup>2</sup></li> <li>- Alternative 2 footprint: 250 000 m<sup>2</sup></li> </ul> </li> </ul> </li> </ul> </li> <li>▪ Associated Infrastructure <ul style="list-style-type: none"> <li>○ Battery energy storage systems (BESS) at each WEF. The BESS will comprise of a selection of electrochemical batteries together with chargers, inverters and related equipment. The BESS will cover an area of approximately five (5) ha at each WEF, have a maximum height of 8 m (as recommended) and have a capacity of 500 MW/500 MWh. The batteries that are considered include: <ul style="list-style-type: none"> <li>• Lead Acid and Advanced Lead Acid;</li> <li>• Lithium ion, NiCd, NiMH-based Batteries;</li> <li>• High Temperature (NaS, Na-NiCl<sub>2</sub>, Mg/PB-Sb); and</li> <li>• Flow Batteries (VRFB, Zn-Fe, Zn-Br)</li> </ul> </li> <li>○ The on-site internal electrical transmission and/or distribution grid with a capacity of 33 kV for all WEFs will follow the servitude of internal access roads. These transmission/distribution lines will preferably be underground, installed at a minimum depth of approximately 1 m below ground surface, unless not recommended by specialist's findings.</li> <li>○ Underground low voltage cables or cable trays (underground to maximum depth of 1 m);</li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li>○ Access roads: <ul style="list-style-type: none"> <li>• Width ranging between 6 - 8 m. The width of these access roads will be increased to a width of up to 10 m where needed.</li> <li>• Length of internal road network (Kwagga 1): approximately 45 km</li> <li>• Length of internal road network (Kwagga 2): approximately 55 km</li> <li>• Length of internal road network (Kwagga 3): approximately 33 km</li> </ul> </li> <li>○ Internal gravel roads and service roads below the power line (width of 4 m);</li> <li>○ Fencing: Fences will be constructed around the building and substation infrastructure at each of the WEFs. The fence specifications are yet to be confirmed.</li> <li>○ Construction work area (i.e. laydown area of maximum 5 ha);</li> <li>■ Water use requirements <ul style="list-style-type: none"> <li>○ It is proposed that approximately 8 333 kL of water will be used on a monthly basis over a period of 12 months during the construction phase. This is based on about 60 000 kL of water for construction, 5 000 kL for the batching plant and 35 000 kL for roads and earthworks.</li> <li>○ Water used during the operational phase of the projects will primarily be for human consumption and sanitation purposes. The project Applicants propose that municipal water will be trucked in to site; however, note that alternative sources of water supply are still being investigated. At this stage no water is planned to be abstracted from or discharged into any surface and/or groundwater systems</li> </ul> </li> <li>■ Construction Period: The construction phase for each proposed project is expected to extend 18 to 24 months.</li> </ul> <p>The total maximum project footprint of each WEF facility will be 250 hectares including the WEF facility and infrastructure such as internal roads for each WEF facility. Some of the main access roads will fall outside of the 250 hectares.</p> <p>The proposed projects do not fall within any of the Renewable Energy Development Zone (REDZs), which were promulgated in Government Gazette 41445, Government Notice (GN) 114 on 16 February 2018; therefore, a full Scoping and EIA process will be undertaken for each of these WEF projects with a authority decision-making period of 107 days.</p>
Indicate if any screening has taken place on site	No environmental screening has taken place on the proposed project sites of the Kwagga WEFs (1-3). Environmental features and sensitivities will be confirmed during the Scoping Phase of the S&EIR Processes.
Physical Address where the development will take place	<p>The proposed sites can be accessed via gravel roads off the N12 main road, which runs in a north-south direction passing to the west of the sites. The proposed sites are located approximately 60 km south of the town of Beaufort West, in the Western Cape Province.</p> <p>The Kwagga 1 project is located on the following farm portions:</p> <ul style="list-style-type: none"> <li>■ Remainder of the Farm Dwaalfontein Wes No. 377;</li> <li>■ Portion 3 of the Farm Tyger Poort No. 376;</li> <li>■ Portion 1 of the Farm Dwaalfontein Wes No. 377; and</li> <li>■ Remainder of the Farm Dwaalfontein No. 379.</li> </ul> <p>The Kwagga 2 project is located on the following farm portions:</p> <ul style="list-style-type: none"> <li>■ Remainder of the Farm Wolve Kraal No. 17</li> <li>■ Portion 1 of the Farm Wolve Kraal No.17</li> <li>■ Portion 3 of the Farm Wolve Kraal No.17</li> <li>■ Portion 6 of the Farm Wolve Kraal No.17</li> <li>■ Portion 7 of the Farm Wolve Kraal No.17</li> <li>■ Portion 8 of the Farm Wolve Kraal No.17</li> <li>■ Portion 9 of the Farm Wolve Kraal No.17</li> </ul>



	<ul style="list-style-type: none"> <li>▪ Portion 10 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 11 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 12 of the Farm Wolve Kraal No.17</li> <li>▪ The Farm Annex Wolve Kraal No. 18; and</li> <li>▪ The Farm Annex Welbedacht No.19</li> </ul> <p>The Kwagga 3 project is located on the following farm portions:</p> <ul style="list-style-type: none"> <li>▪ Portion 1 of the Farm Arthurs Kraal No. 386</li> <li>▪ Portion 2 of the Farm Arthurs Kraal No. 386</li> <li>▪ Portion 3 of the Farm Arthurs Kraal No. 386</li> <li>▪ The Farm Annex Taaibos No. 21</li> <li>▪ Portion 4 of the Farm Cyferfontein No. 115</li> <li>▪ Portion 5 of the Farm Cyferfontein No. 115</li> <li>▪ Portion 6 of the Farm Cyferfontein No. 115</li> <li>▪ Portion 8 of the Farm Cyferfontein No. 115</li> <li>▪ Portion 5 of the Farm Muis Kraal No. 373</li> <li>▪ Portion 7 of the Farm Muis Kraal No. 373</li> </ul>
Farm name(s)/ Erf No	<p>The Kwagga 1 project is located on the following farm portions:</p> <ul style="list-style-type: none"> <li>▪ Remainder of the Farm Dwaalfontein Wes No. 377;</li> <li>▪ Portion 3 of the Farm Tyger Poort No. 376;</li> <li>▪ Portion 1 of the Farm Dwaalfontein Wes No. 377; and</li> <li>▪ Remainder of the Farm Dwaalfontein No. 379.</li> </ul> <p>The Kwagga 2 project is located on the following farm portions:</p> <ul style="list-style-type: none"> <li>▪ Remainder of the Farm Wolve Kraal No. 17</li> <li>▪ Portion 1 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 3 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 6 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 7 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 8 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 9 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 10 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 11 of the Farm Wolve Kraal No.17</li> <li>▪ Portion 12 of the Farm Wolve Kraal No.17</li> <li>▪ The Farm Annex Wolve Kraal No. 18; and</li> <li>▪ The Farm Annex Welbedacht No.19</li> </ul> <p>The Kwagga 3 project is located on the following farm portions:</p> <ul style="list-style-type: none"> <li>▪ Portion 1 of the Farm Arthurs Kraal No. 386</li> <li>▪ Portion 2 of the Farm Arthurs Kraal No. 386</li> <li>▪ Portion 3 of the Farm Arthurs Kraal No. 386</li> <li>▪ The Farm Annex Taaibos No. 21</li> <li>▪ Portion 4 of the Farm Cyferfontein No. 115</li> <li>▪ Portion 5 of the Farm Cyferfontein No. 115</li> <li>▪ Portion 6 of the Farm Cyferfontein No. 115</li> <li>▪ Portion 8 of the Farm Cyferfontein No. 115</li> <li>▪ Portion 5 of the Farm Muis Kraal No. 373</li> <li>▪ Portion 7 of the Farm Muis Kraal No. 373</li> </ul>
Local Municipality	Beaufort West Local Municipality and Prince Albert Local Municipality
District Municipality	Central Karoo District Municipality

Locality map:	<p>A locality map must be attached to the application form, as <b>APPENDIX 2</b>. The scale of the locality map must be at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map. The map must include the following:</p> <ul style="list-style-type: none"> <li>• an accurate indication of the project site position as well as the positions of the alternative sites, if any;</li> <li>• road names or numbers of all the major roads as well as the roads that provide access to the site(s)</li> <li>• a north arrow;</li> <li>• a legend;</li> <li>• the prevailing wind direction;</li> <li>• site sensitivities, including but not limited to vegetation, wetlands, watercourses, heritage sites, critical biodiversity area/s, World Heritage Site, etc. and it must be overlaid by the study area; and</li> <li>• GPS co-ordinates (Indicate the position of the proposed activity with the latitude and longitude at the centre point for each alternative site.</li> <li>• The co-ordinates should be in degrees and decimal minutes. The minutes should be to at least three decimal places. The projection that must be used in all cases is the WGS-84 spheroid in a national or local projection)</li> </ul>
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**Note from the CSIR: Refer to Appendix 2 of this Pre-Application Meeting Request Form for a copy of the Locality Map and Preliminary Site Sensitivity Map.**



## 6. ACTIVITIES APPLIED FOR

For an application for authorisation that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be provided below.

**Note from the CSIR:** The listed activities for all three WEF projects and associated infrastructure are identical at this stage of the process, as they have identical project components and infrastructure. Hence one list of listed activities has been provided below. Separate lists of listed activities for each project will be provided in the separate Application Forms for Environmental Authorisation and Draft Scoping and EIA Reports, which will also take the environmental features on site into consideration.

Activity No(s):	Provide the relevant <b>Scoping and Environmental Impact Assessment Activity(ies)</b> as set out in <b>Listing Notice 1</b> of the EIA Regulations, 2014 as amended.	Describe the portion of the proposed project to which the applicable listed activity relates.
<b>Activity 12</b> <b>(ii) (a) (c)</b>	<p>The development of:</p> <p>(ii) infrastructure or structures with a physical footprint of 100 square metres or more;</p> <p>where such development occurs -</p> <p>a) within a watercourse;</p> <p>b) in front of a development setback; or</p> <p>c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>excluding -</p> <p>(aa) the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour;</p> <p>(bb) where such development activities are related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies;</p> <p>(cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies;</p> <p>(dd) where such development occurs within an urban area;</p> <p>(ee) where such development occurs within existing roads, road reserves or railway line reserves; or</p> <p>(ff) the development of temporary infrastructure or structures where such infrastructure or structures will be removed within 6 weeks of the commencement of development and where indigenous vegetation will not be cleared.</p>	<p>The proposed three WEFs will be constructed on various farm portions, approximately 60 km south of Beaufort West within the Beaufort West Local Municipality and Prince Albert Local Municipality, Western Cape Province. Hence the proposed project will take place outside of an urban area.</p> <p>The proposed WEFs will entail the construction of building infrastructure and structures (such as the wind turbines, offices, workshops, ablution facilities, on-site substations, laydown areas and security enclosures etc.). The infrastructure and structures are expected to exceed a footprint of 100 m<sup>2</sup> and some may occur within drainage features and 32 m of the watercourses.</p>
<b>Activity 19</b>	<p>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse;</p> <p>but excluding where such infilling, depositing, dredging, excavation, removal or moving-</p> <p>a) will occur behind a development setback;</p>	<p>The proposed projects may entail the excavation, removal and moving of more than 10 m<sup>3</sup> of soil, sand, pebbles or rock from nearby watercourses on site. The proposed projects may also entail the infilling of more than 10 m<sup>3</sup> of material into the nearby watercourses. The Swartbackens River runs through the Kwagga 1 WEF site, the Kouka and Muishond se Loop Rivers run through Kwagga 2 WEF site and the Wildfontein and</p>

	<p>b) is for maintenance purposes undertaken in accordance with a maintenance management plan;</p> <p>c) falls within the ambit of activity 21 in this Notice, in which case that activity applies;</p> <p>d) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or</p> <p>e) where such development is related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies.</p>	<p>Muiskraal Rivers run through the Kwagga 3 WEF site, as well as associated tributaries and minor drainage lines.</p> <p>Additional drainage lines will be identified by the Aquatic and Terrestrial Biodiversity specialists. Details of the infilling of and excavations from the drainage features will be confirmed during the detailed design phase.</p>
Activity No(s):	Provide the relevant <b>Scoping and Environmental Impact Assessment Activity(ies)</b> as set out in Listing Notice 3 of the EIA Regulations, 2014 as amended.	Describe the portion of the proposed project to which the applicable listed activity relates.
<b>Activity 4 (i) (ii) (aa)</b>	<p>The development of a road wider than 4 metres with a reserve less than 13,5 metres.</p> <p>i. Western Cape</p> <p>ii. Areas outside urban areas;</p> <p>(aa) Areas containing indigenous vegetation;</p>	<p>Access roads will be upgraded to access each of the main affected farm portions. The access roads are estimated to have a width ranging between 6 m and 8 m. The width of these access roads will be increased to a width of up to 10 m.</p> <p>The existing internal road network extends approximately 45 km for Kwagga 1, approximately 55 km for Kwagga 2 and approximately 33 km within the Kwagga 3 projects.</p> <p>Internal gravel roads and service roads below the power lines will also be constructed, and these will have a width of approximately 4 m.</p> <p>The proposed projects will take place outside of an urban area on land containing indigenous vegetation.</p>
<b>Activity 12 (i) (ii)</b>	<p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>i. Western Cape</p> <p>ii. Within critical biodiversity areas identified in bioregional plans;</p>	<p>The three proposed WEFs will each have an estimated footprint of approximately 250 ha. As a result, more than 300 m<sup>2</sup> of indigenous vegetation would be removed for the construction of the proposed WEFs and associated infrastructure. The proposed project sites contain Critical Biodiversity Area (CBA) 1, CBA 2 and Ecological Support Area (ESA) 1 in terms of the Western Cape Biodiversity Spatial Plan (2017).</p>
<b>Activity 14 (ii) (a) and (c); (i), (i) and (ff)</b>	<p>The development of –</p> <p>(ii) infrastructure or structures with a physical footprint of 10 square metres or more;</p> <p>where such development occurs –</p> <p>(a) within a watercourse;</p> <p>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>i. Western Cape</p>	<p>The proposed three WEFs will be constructed on various farm portions, approximately 60 km south of Beaufort West within the Beaufort West Local Municipality and Prince Albert Local Municipality, Western Cape Province. Hence the proposed project will take place outside of an urban area.</p> <p>The proposed WEFs will entail the construction of building infrastructure and structures (such as the Wind turbines, offices, workshops, ablution facilities, on-site substations, laydown areas and security enclosures etc.). The infrastructure and</p>

	<p>i. Outside urban areas:</p> <p>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p>	<p>structures will exceed a footprint of 10 m<sup>2</sup> and some may occur within drainage features and 32 m of the watercourses.</p> <p>The proposed project sites contain Critical Biodiversity Area (CBA) 1, CBA 2, Ecological Support Area (ESA) 1 and ESA 2 in terms of the Western Cape Biodiversity Spatial Plan (2017).</p>
Activity No(s):	Provide the relevant <b>Scoping and EIR Activity(ies)</b> as set out in <b>Listing Notice 2</b> of the EIA Regulations, 2014 as amended.	Describe the portion of the proposed project to which the applicable listed activity relates.
<b>Activity 1</b>	<p>The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more, excluding where such development of facilities or infrastructure is for photovoltaic installations and occurs:</p> <p>a) within an urban area; or b) on existing infrastructure.</p>	<p>The proposed project will entail the construction of three WEFs with a maximum generation of 279 MW, 341 MW and 204.6 MW (i.e. facility for the generation of electricity from a renewable resource). The proposed projects will take place outside of an urban area.</p> <p><u>Note that GN 114 states that Applications for EA for large scale Wind and Solar PV energy facilities, when such facilities trigger Activity 1 of Listing Notice 2 of 2014 of the 2014 NEMA EIA Regulations (as amended) and any other listed and specified activities necessary for the realisation of such facilities, and where the entire proposed facility is to occur in such REDZs, must follow a BA Process, in order to obtain EA.</u></p> <p>None of the proposed WEFs (Kwagga 1, Kwagga 2 and Kwagga 3) are situated within a REDZ or a strategic power corridor, therefore a full Scoping and EIA process will be undertaken for each WEF.</p>
<b>Activity 4</b>	The development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.	The three proposed WEFs will each include the installation of a BESS. The BESS will comprise of a selection of electrochemical batteries together with chargers, inverters and related equipment. The BESS will cover an area of approximately five (5) ha at each WEF, have a maximum height of 8 m (as recommended) and have a capacity of 500 MW/500 MWh.
<b>Activity 15</b>	<p>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for:</p> <p>(i) the undertaking of a linear activity; or (i) maintenance purposes undertaken in accordance with a maintenance management plan.</p>	<p>The three proposed WEFs will each have a total estimated footprint of approximately 250 ha. As a result, more than 20 ha of indigenous vegetation would be removed for the construction of the proposed WEFs.</p> <p><u>Note that GN 114 states that Applications for EA for large scale Wind and Solar PV energy facilities, when such facilities trigger Activity 1 of Listing Notice 2 of 2014 of the 2014 NEMA EIA Regulations (as amended) and any other</u></p>

		<p><u>listed and specified activities necessary for the realisation of such facilities, and where the entire proposed facility is to occur in such REDZs, must follow a BA Process, in order to obtain EA.</u></p> <p>None of the proposed WEFs (Kwagga 1, Kwagga 2 and Kwagga 3) are situated within a REDZ or a strategic power corridor, therefore a full Scoping and EIA process will be undertaken for each WEF.</p>
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Be reminded that the onus is on the applicant to ensure that all applicable listed activities are included in the application. Environmental Authorisation must be obtained prior to commencement with each applicable listed activity.

**Note from the CSIR:** The listed activities indicated above are indicative and will be confirmed subsequent to the completion of the draft specialist studies during the Scoping Phase.

**7. ADDITIONAL INFO, IF ANY**

Please attach any additional information as Error! Reference source not found..

**8. LIST OF APPENDICES**

		SUBMITTED	
APPENDIX 1	Proposed Agenda	YES ✓	NO
APPENDIX 2	Locality map	YES ✓	NO
APPENDIX 23	Additional info	YES	NO ✓



# APPENDIX 1 PRE-APPLICATION MEETING AGENDA

*(Please note that a generic agenda will not be accepted. Please submit a detailed agenda)*

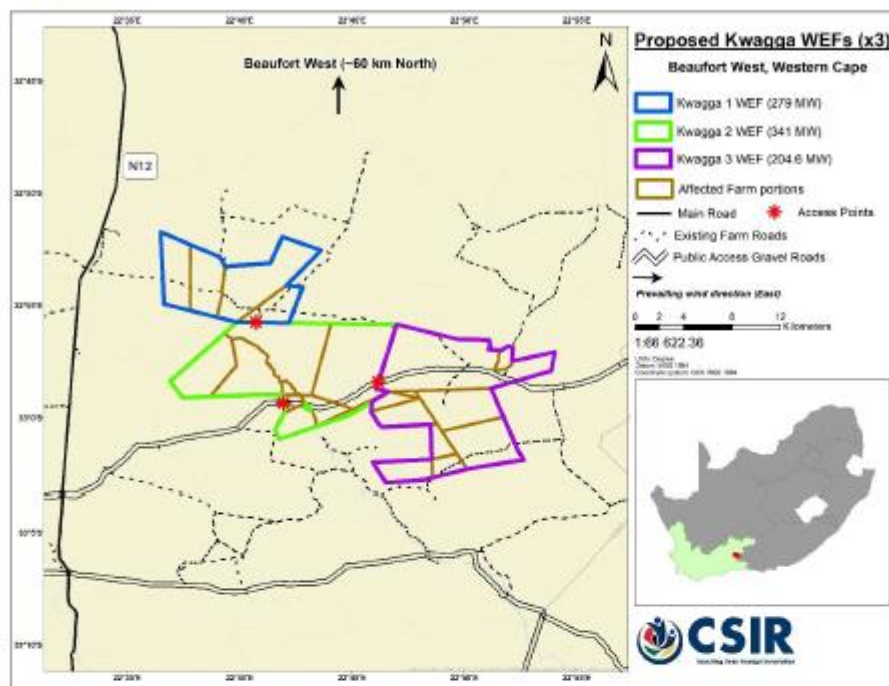
**Note from the CSIR:** This pre-application meeting request form is being submitted to discuss three Applications for Environmental Authorisations. All applications will be discussed in one pre-application meeting in order to improve efficiency, however three separate Applications for Environmental Authorisation will be submitted to the DEFF following the pre-application meeting. The proposed projects have the same project description and components, and they take place on adjacent farm properties. Based on this, one single combined, detailed proposed agenda for the pre-application meeting has been compiled and included below.

Item	Description	Time	Presenter
1	Welcome, Introduction and Outline of Meeting Proceedings	10H00 – 10H10	DEFF
2	Description of the proposed Kwagga 1, Kwagga 2 and Kwagga 3 Wind Energy Facilities (WEFs).  <u><i>Note from the CSIR: All three S&amp;EIA Projects have identical project components, hence will be discussed collectively in order to maximize on efficiency.</i></u>	10H10 – 10H30	CSIR
3	Discussion on the specialist assessments and compliance statements to be undertaken as part of the three S&EIA Processes; and the associated specialist reporting	10H30 – 10H45	CSIR, DEFF and ABO Wind renewable energies (Pty) Ltd
4	Discussion on the approach to including BESS on each of the proposed WEF sites and to confirm the need to undertake a Battery Risk Assessment	10H45 – 11H05	CSIR, DEFF and ABO Wind renewable energies (Pty) Ltd
5	Discussion and confirmation of the proposed Public Participation Plan (PPP) which will be submitted to the DEFF for approval in terms of the Directions issued by the DEFF on 5 June 2020 in Government Notice 650 (regarding measures to prevent the spread of COVID-19 relating to National Environmental Management permits and licences).	11H05 – 11H20	CSIR, DEFF and ABO Wind renewable energies (Pty) Ltd
6	Discussion of the proposed schedule and overall process for the S&EIA Processes, including applicable Listed Activities and Cumulative Impact Assessment Approach (i.e. assess cumulative impacts based on a 50 km buffer and based on Renewable Energy projects with a positive Environmental Authorisation issued at the start of this S&EIA (i.e. November 2020))	11H20 – 11H40	CSIR, DEFF and ABO Wind renewable energies (Pty) Ltd
7	Questions	11H40 – 11H50	CSIR, DEFF and ABO Wind renewable energies (Pty) Ltd
8	Way Forward and Closure	11H50 – 12H00	DEFF

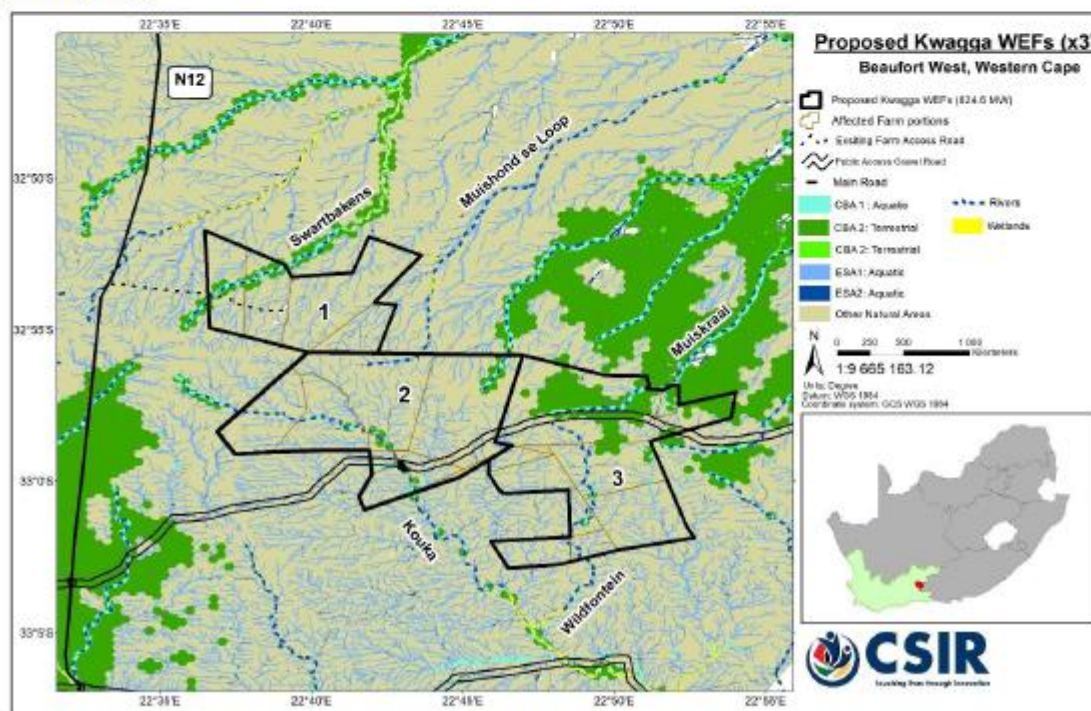


## APPENDIX 2 LOCALITY MAP

**Locality Map**



**Sensitivity Map**



## E. 2: Pre-Application Meeting Presentation

### Scoping and Environmental Impact Assessments for the Proposed Development of three Wind Energy Facilities near Beaufort West in the Western Cape: Kwagga 1 (279 MW), Kwagga 2 (341 MW) and Kwagga 3 (204.6 MW)

*[Note from CSIR: DEFF has confirmed in writing that a pre-application meeting is not being required]*



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### Items included



Item	Description	Time	Presenter
1	Description of the proposed Kwagga 1, Kwagga 2 and Kwagga 3 Wind Energy projects.	n/a	n/a
2	Discussion on the specialist assessments and compliance statements to be undertaken as part of the three S&EIA Processes; and the associated specialist reporting.	n/a	n/a
3	Discussion on the approach to including Battery Energy Storage Systems (BESS) at each of the proposed WEF sites and to confirm the need to undertake a Battery Risk Assessment.	n/a	n/a
4	Discussion and confirmation of the proposed Public Participation Plan (PPP)	n/a	n/a
5	Discussion of the project schedule and overall process for the S&EIA Processes, including applicable Listed Activities and Cumulative Impact Assessment Approach (i.e. assess cumulative impacts based on a 50 km buffer and based on Renewable Energy projects with a positive Environmental Authorisation issued at the start of this S&EIA (i.e. November 2020))	n/a	n/a

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## Affected Farm Portions



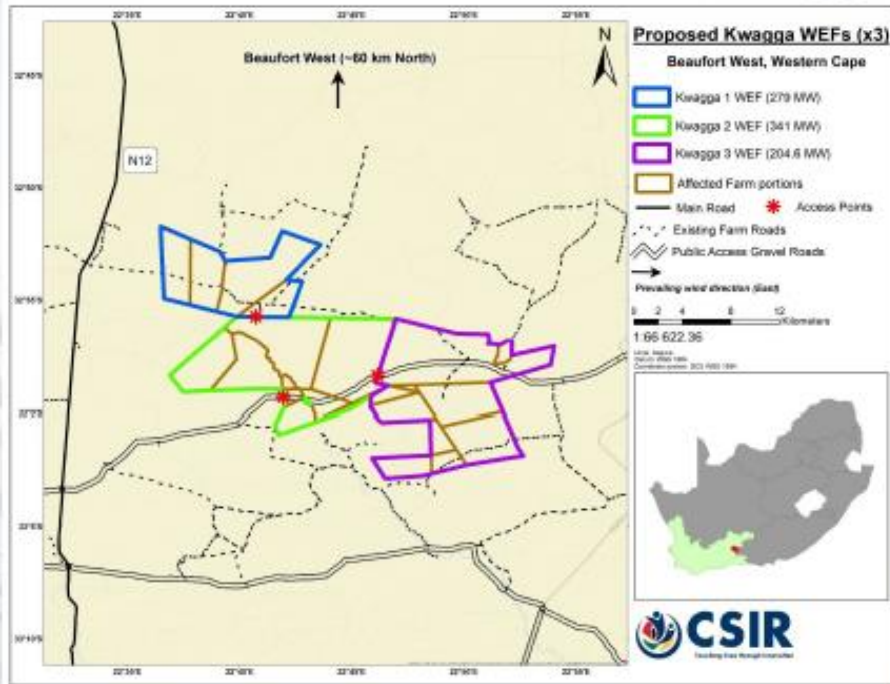
WEF Projects	Farm Portions – WEF Facility and Associated Infrastructure
Kwagga 1	<ul style="list-style-type: none"> <li>• Remainder of the Farm Dwaalfontein Wes No. 377</li> <li>• Portion 3 of the Farm Tyger Poort No. 376</li> <li>• Portion 1 of the Farm Dwaalfontein Wes No. 377</li> <li>• Remainder of the Farm Dwaalfontein No. 379</li> </ul>
Kwagga 2	<ul style="list-style-type: none"> <li>• Remainder of the Farm Wolve Kraal No. 17</li> <li>• Portion 1 of the Farm Wolve Kraal No.17</li> <li>• Portion 3 of the Farm Wolve Kraal No.17</li> <li>• Portion 6 of the Farm Wolve Kraal No.17</li> <li>• Portion 7 of the Farm Wolve Kraal No.17</li> <li>• Portion 8 of the Farm Wolve Kraal No.17</li> <li>• Portion 9 of the Farm Wolve Kraal No.17</li> <li>• Portion 10 of the Farm Wolve Kraal No.17</li> <li>• Portion 11 of the Farm Wolve Kraal No.17</li> <li>• Portion 12 of the Farm Wolve Kraal No.17</li> <li>• The Farm Annex Wolve Kraal No. 18</li> <li>• The Farm Annex Welbedacht No.19</li> </ul>
Kwagga 3	<ul style="list-style-type: none"> <li>• Portion 1 of the Farm Arthurs Kraal No. 386</li> <li>• Portion 2 of the Farm Arthurs Kraal No. 386</li> <li>• Portion 3 of the Farm Arthurs Kraal No. 386</li> <li>• The Farm Annex Taaibos No. 21</li> <li>• Portion 4 of the Farm Cyferfontein No. 115</li> <li>• Portion 5 of the Farm Cyferfontein No. 115</li> <li>• Portion 6 of the Farm Cyferfontein No. 115</li> <li>• Portion 8 of the Farm Cyferfontein No. 115</li> <li>• Portion 5 of the Farm Muis Kraal No. 373</li> <li>• Portion 7 of the Farm Muis Kraal No. 373</li> </ul>

## Project Locality



- None of the proposed WEF projects are situated within a Renewable Energy Zone (REDZ) or a strategic power corridor; therefore, a full Scoping and EIA process will take place for each WEF project → 107 days decision-making timeframe

## Project Locality



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## Project Description



No.	WEF Project	Project Components and associated infrastructure to be assessed
1	Kwagga 1	<ul style="list-style-type: none"> <li>Wind Energy Facility (45 x turbines)</li> <li>1 x on-site collector substation</li> <li>Associated infrastructure (including access roads, internal roads, building infrastructure, construction compound, laydown area, electrochemical battery energy storage system, etc.)</li> </ul>
2	Kwagga 2	<ul style="list-style-type: none"> <li>Wind Energy Facility (55 x turbines)</li> <li>1 x on-site collector substation</li> <li>Associated infrastructure (including access roads, internal roads, building infrastructure, construction compound, laydown area, electrochemical battery energy storage system, etc.)</li> </ul>
3	Kwagga 3	<ul style="list-style-type: none"> <li>Wind Energy Facility (33 x turbines)</li> <li>1 x on-site collector substation</li> <li>Associated infrastructure (including access roads, internal roads, building infrastructure, construction compound, laydown area, electrochemical battery energy storage system, etc.)</li> </ul>

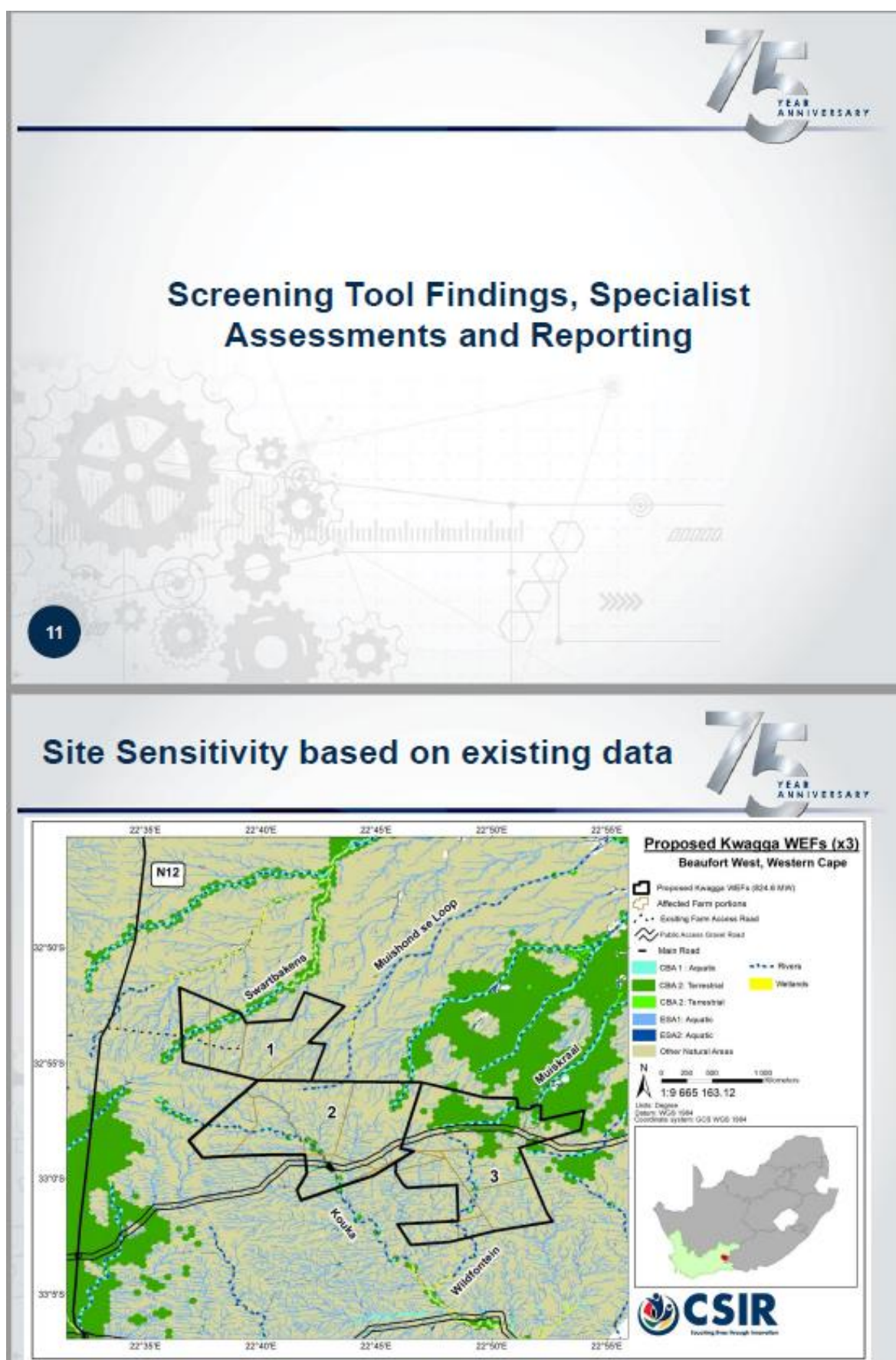
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Project Description			
75 YEAR ANNIVERSARY			
Project component	Kwagga 1	Kwagga 2	Kwagga 3
Development footprint:	±250 ha	±250 ha	±250 ha
Generation capacity:	279 MW	341 MW	204.6 MW
Proposed RE technology:	Wind	Wind	Wind
Turbine dimensions:	<ul style="list-style-type: none"> <li>Number of turbines – 45</li> <li>Hub height – up to 150 m</li> <li>Rotor diameter – up to 200 m</li> </ul>	<ul style="list-style-type: none"> <li>Number of turbines – 55</li> <li>Hub height – up to 150 m</li> <li>Rotor diameter – up to 200 m</li> </ul>	<ul style="list-style-type: none"> <li>Number of turbines – 33</li> <li>Hub height – up to 150 m</li> <li>Rotor diameter – up to 200 m</li> </ul>
Internal power lines / cabling at each WEF:	33 kV underground internal transmission cabling		
Building infrastructure at each WEF:	Offices, O&M Centre, Workshop, Ablutions, Inverter/Converter Stations, Guard Houses (Maximum footprint: 1 ha)		
On-Site Substation at each WEF:	Each WEF is planned to have a single substation comprising the IPP portion and the Eskom switching yard which will make use of a 33/132 kV transformer. Each WEF might also include a position for a collection station. Therefore, multiple alternative footprint options have been provided for each WEF as the Project Developer would aim to have at least two substation footprints within each WEF as a single "preferred" alternative.		


Project Description			
75 YEAR ANNIVERSARY			
Project component	Kwagga 1	Kwagga 2	Kwagga 3
Electrochemical Battery Energy Storage System (BESS) at each WEF:	<ul style="list-style-type: none"> <li>Footprint – approx. 5 ha at each site</li> <li>Height – Up to 8 m max</li> <li>Storage capacity – Up to 500 MW/500 MWh at each WEF facility</li> </ul>		
Internal access roads	<ul style="list-style-type: none"> <li>Width of current roads to be increased to ± 10 m</li> <li>Total length – 45 km</li> </ul>	<ul style="list-style-type: none"> <li>Width of current roads to be increased to ± 10 m</li> <li>Total length – 55 km</li> </ul>	<ul style="list-style-type: none"> <li>Width of current roads to be increased to ± 10 m</li> <li>Total length – 33 km</li> </ul>
Water use requirements	<ul style="list-style-type: none"> <li>Water to be sourced from the municipality via tankers and stored on site</li> <li>No water is planned to be abstracted from groundwater</li> <li>No water is planned to be discharged onto land or into surface water systems, if present</li> </ul>		
Construction Period	<ul style="list-style-type: none"> <li>18 – 24 months per WEF facility</li> </ul>		
Operational Period	<ul style="list-style-type: none"> <li>Twenty years for each WEF facility</li> </ul>		





National DEFF Screening Tool - Themes 				
Specialists study	Very High	High	Medium	Low
Terrestrial Biodiversity and Species Theme	Kwagga 1-3			
Flicker Theme				
Landscape (Wind) Theme				
Noise Theme				
Paleontology Theme				
Aquatic Biodiversity Theme				
Agriculture Theme	Kwagga 1	Kwagga 2 & 3		
Bats (Wind) Theme		Kwagga 1-3		
Animal Species Theme		Kwagga 1 & 3	Kwagga 2	
Archaeological and Cultural Heritage Theme			Kwagga 1-3	
Civil Aviation (Wind) Theme		Kwagga 1		Kwagga 2 & 3
Defense Theme				Kwagga 1-3
Plant species Theme				
Avian (Wind) Theme				
RFI Theme				

Specialist Impact Studies required 			
Specialist Study	Specialist Company	Specialist Name	Type of Assessment
Agriculture and Soils	Private	Johann Lanz	Protocol: Compliance Statement *
Terrestrial Biodiversity and Species	Ekotrust	Dr Noel van Rooyen	Protocol: Impact Assessment *
Aquatic Biodiversity and Species	Private	Toni Belcher	Protocol: Impact Assessment *
Avifauna Impact Assessment	Chris van Rooyen Consulting	Chris van Rooyen / Albert Froneman	Protocol: Impact Assessment *
Noise Impact Assessment	Safetech	Dr Brett Williams	Protocol: Impact Assessment *
Heritage Impact Assessment	ASHA Consulting	Dr Jayson Orton	Appendix 6: Impact Assessment *
Palaeontology Impact Assessment	Natura Viva	Dr John Almond	Appendix 6: Impact Assessment *
Socio-Economic Impact Assessment	SRK Consulting	Sue Reuther	Appendix 6: Impact Assessment
Bats Impact Assessment	ARCUS	Ashlin Bodasing / Michael Brits	Appendix 6: Impact Assessment *
Traffic Impact Assessment	JG Afrika (Pty) Ltd	Iris Wink	Appendix 6: Impact Assessment
Visual & Flicker Impact Assessment	Bapela Cave Klapwijk cc	Menno Klapwijk	Appendix 6: Impact Assessment *
Civil Aviation Assessment	CSIR (EAP)	Lizande Kellerman / Dhiveshni Moodley	Protocol: Compliance Statement (VH, H, M) or No Requirement (L)*
Defence Assessment	CSIR (EAP)	Lizande Kellerman / Dhiveshni Moodley	Protocol: Compliance Statement (VH, H, M) or No Requirement (L)*

\*Sine Sensitivity Verification needed

## Specialist Reporting



- Three Specialist Impact Reports will be compiled for each specialist theme:
  - Report 1 for Kwagga 1: This report will include the Kwagga 1 WEF and associated infrastructure for the WEF
  - Report 2 for Kwagga 2: This report will include the Kwagga 2 WEF and associated infrastructure for the WEF
  - Report 3 for Kwagga 3: This report will include the Kwagga 3 WEF and associated infrastructure for the WEF

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## Battery Energy Storage System (BESS)

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## Inclusion of Battery Energy Storage System (BESS)



### Purpose of the BESS:

- To mitigate intermittency of wind energy by storing and dispatching of electricity when needed i.e. contribute to the grid 24 hours per day, during peak demand, at night or during power outages.
- The inherent purpose of the battery is thus not to store a dangerous good in a container.

### Description of BESS:

- Technology – Electrochemical (Approximately 500 MW/h)
- Area – Up to 5 ha [*Note: Within the total 250 ha footprint at each WEF*]
- Height – Up to 8 m
- Fully pre-assembled off site and transported to site for placement.
- Sealed system that would not classify as a facility for the storage and handling of a dangerous good.
- Fully integrated, modular, all-in-one unit that includes the battery management system and safety and protection features as a single unit i.e. no maintenance of BESS on site required.
- It will be ensured that the operational lifespan of the BESS is aligned with that of the WEF Facility and if they need to be replaced during the operational lifespan, it will be removed and disassembled and recycled offsite by the respective and relevant battery supplier.

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## Public Participation Plan (please see PP Plan attached)

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## Project Schedule

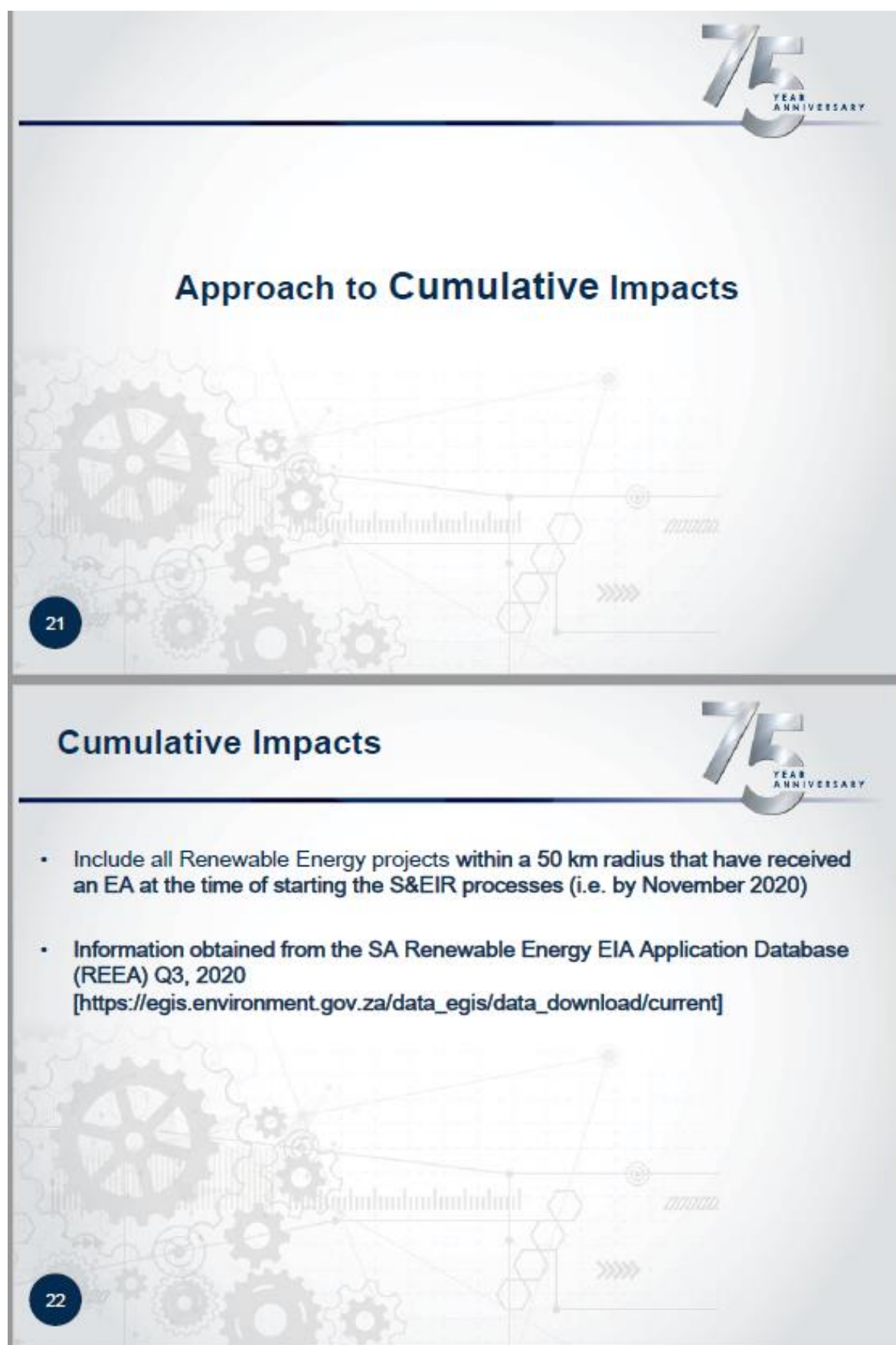
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## Integrated Project Schedule

Key Milestones	Proposed Timeframe
Project Initiation and Pre-Application Consultation with the DEFF	Nov 2020
Specialist Assessments: Scoping Phase	Oct 2020 – Jan 2021
Submit 3 x EA Application Forms and Draft Scoping Reports to DEFF	Feb 2021
Release 3 x Draft Scoping Reports for 30-day commenting period	Feb 2021
Submit 3 x Final Scoping Reports to DEFF for Decision-Making	May 2021
Release 3 x Draft EIA Reports for 30-day commenting period	Jul 2021
Submit 3 x Final Scoping Reports to DEFF for Decision-Making	Aug 2021
DEFF review of the 3 x Final EIA Reports and issue of Decisions (i.e. grant or refuse EA) = 107 days	Aug – Oct 2021
EAP to Notify I&APs of Decisions (14 days)	Oct / Nov 2021

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## Cumulative Impacts

DEA REF	PROJECT TITLE	APPLICANT
12/12/20/1784	Proposed renewable energy facility at Beaufort West	South Africa Mainstream Renewable Power Developments (Pty) Ltd
12/12/20/2133	Proposed Construction of 19MW Photovoltaic Solar Facility Proposed By Lunama 214 Pty Ltd On Portion 1 Of The Farm Steenrotsfontein 168, Beaufort West, Western Cape	Lunama 214 Pty Ltd
12/12/20/2133/A1	Proposed Construction of 19MW Photovoltaic Solar Facility Proposed By Lunama 214 Pty Ltd On Portion 1 Of The Farm Steenrotsfontein 168, Beaufort West, Western Cape	Lunama 214 Pty Ltd
12/12/20/2133/AM3	Proposed Construction of 19MW Photovoltaic Solar Facility Proposed By Lunama 214 Pty Ltd On Portion 1 Of The Farm Steenrotsfontein 168, Beaufort West, Western Cape	Lunama 214 Pty Ltd
12/12/20/2133/AM4	Proposed Construction of 19MW Photovoltaic Solar Facility Proposed By Lunama 214 (Pty) Ltd On Portion 1 Of The Farm Steenrotsfontein 168, Beaufort West, Western Cape	BioTherm Energy (Pty) Ltd
12/12/20/2133/AM5	Proposed Construction of 19MW Photovoltaic Solar Facility Proposed By Lunama 214 (Pty) Ltd On Portion 1 Of The Farm Steenrotsfontein 168, Beaufort West, Western Cape	BioTherm Energy (Pty) Ltd
12/12/20/2296	Proposed Construction Of The Leeu Gamka Solar Power Plant And Its Associated Infrastructures, Near Beaufort West And Leeu Gamka, Beaufort West Local Municipality, Western Cape Province	Through Fare General Trading Pty Ltd
12/12/20/2441	Proposed 300MW PV solar energy facility on the Farm Steenrotsfontein near Beaufort West, Western Cape	BioTherm Energy (Pty) Ltd
14/12/16/3/2/324	Proposed PV solar plant on three properties, Beaufort West, Western Cape	To review
14/12/16/3/2/325	Proposed PV solar plant on three properties, Beaufort West, Western Cape	To review
14/12/16/3/2/326	Proposed PV solar plant on three properties, Beaufort West, Western Cape	To review
14/12/16/3/2/327	Proposed PV solar plant on three properties, Beaufort West, Western Cape	To review
14/12/16/3/2/406	Proposed wind and solar facility on Farm Lombardskraal, Farm 330, Beaufort West, Western Cape	To review
14/12/16/3/2/772	Proposed establishment of the Beaufort West Solar Power Plant Site 1, Western Cape	To review
14/12/16/3/2/773	Proposed Establishment of the Beaufort West Solar Power Plant Site 2, Western Cape Province	To review
14/12/16/3/2/774	Proposed Beaufort West Solar power plant site 3 near Beaufort West	To review
12/12/20/1784/AM4	Proposed development of a Renewable Energy Facility at Beaufort West in Western Capes	South Africa Mainstream Renewable Power Gamka (Pty) Ltd



## Questions from CSIR to DEFF

- Specialist Studies
  - Are you happy with the identified Specialist Impact Assessments to be undertaken and reported on as set out in the table on Slide 13?
  - Do you agree on our approach to the specialist reporting i.e. one report for each WEF project per environmental theme?
- Battery Storage (BESS)
  - Are you happy for us to include battery storage as part of the S&EIR processes for each of the proposed Kwagga WEF projects from the outset?
  - Note that based on the type of BESS considered for the proposed Kwagga WEF projects as per the description provided on Slide 16, it is our professional opinion that a risk assessment for battery storage inclusion at each of the proposed Kwagga WEF projects would not be required.
- Cumulative Impacts
  - Are you happy with our approach to the assessment of cumulative impacts as per Slide 21-22?
- Listed Activities
  - We have provided a list of listed activities in terms of the 2014 EIA Regulations, as amended, in the pre-application meeting request application form. Are you happy with this list or are there any additional listed activities that you deem applicable and which we need to include?
- Public Participation
  - Do you kindly approve of our PP Plan as provided?
- Project Schedule
  - Please confirm whether you agree with the stated timeframe for decision-making i.e. 107 days after submission of the Final EIA Reports?

24

## **E. 3: Pre-Application Consultation with DFFE**

**Note from the CSIR:** A request for a Pre-Application Meeting was submitted to the Competent Authority i.e. the National DFFE via email on 10 November 2020. On 19 November 2020, the CSIR-EMS received written confirmation via email from the DFFE stating that the DFFE deems a pre-application meeting is not required. The email correspondence of the pre-application consultation with the DFFE, included here in Appendix E.3 serves as proof of request for a pre-application meeting as well as the consultation with the DFFE.

**Lizande Kellerman - Request for a Pre-Application Meeting for 3 \* S&EIA Processes, near Beaufort West, Western Cape**

---

**From:** Dhiveshni Moodley  
**To:** EIAapplications@environment.gov.za  
**Date:** 10 Nov 2020 16:01  
**Subject:** Request for a Pre-Application Meeting for 3 \* S&EIA Processes, near Beaufort West, Western Cape  
**Cc:** Lizande Kellerman  
**Attachments:** Document control form\_PreApp Meeting Request\_Kwagga WEFs\_10Nov2020.pdf; Pre-App Meeting Request\_Kwagga WEFs\_10Nov2020.pdf

---

Good afternoon

Please find attached a request for a pre-application meeting, completed on the pre-application meeting request form obtained from the DEFF website.

The meeting is requested to discuss the Scoping and Environmental Impact Assessment Processes for the Proposed Development of three Wind Energy Facilities; Kwagga 1 (279 MW), Kwagga 2 (341 MW) and Kwagga 3 (204.6 MW), near Beaufort West in the Western Cape Province

Note that all three projects will be discussed in one pre-application meeting in order to maximise on efficiency, however three separate Application Forms for Environmental Authorisation will be submitted to the DEFF following the pre-application meeting.

Please also see attached the document control form as requested. Please note that this request for the pre-application meeting is being submitted via email, as per the instructions provided. Hence some of the information in the checklist relating to uploading documents on the Novell Filr is not applicable.

Please will you kindly confirm receipt of the attached and this email.

Thank you in advance for your assistance with this.

Kind Regards,  
Dhiveshni

**Lizande Kellerman - RE: 2020-11-0012**

---

**From:** Constance Musemburi <CMusemburi@environment.gov.za>  
**Date:** 13 Nov 2020 10:12  
**Subject:** RE: 2020-11-0012  
**Cc:** Lizande Kellerman <LKellerman@csir.co.za>, Dhiveshni Moodley <DMoodley1@...

---

Dear Dhiveshni

This email serves as acknowledgement of receipt of your meeting request. The Department will get back to you in due course with meeting details.

Regards

Constance

---

**From:** EIA Applications  
**Sent:** 11 November 2020 12:19 PM  
**To:** Constance Musemburi <CMusemburi@environment.gov.za>  
**Cc:** Lizande Kellerman <LKellerman@csir.co.za>; Dhiveshni Moodley <DMoodley1@csir.co.za>; Wayne Hector <WHector@environment.gov.za>; Lerato Mokoena <LMokoena@environment.gov.za>  
**Subject:** 2020-11-0012

Dear Constance

Please note that you have been allocated an application:

**Type of Application:** Pre-Application Meeting Request;  
**Reference Number:** 2020-11-0012;  
**Date Received:** 10/11/2020;  
**Action Required:** Decide on meeting request.

Kindly let Ephron know which date the meeting is to be held, if it will be set.

\*EAP/Applicant: please use this reference number when submitting the application for EA/amendment application (page 1 of the application form), as well as attach the approved PP Plan if the application requires a PP process.

EIA Applications  
Integrated Environmental Authorisations  
Department of Environment, Forestry and Fisheries

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• You are advised that this mailbox has a 48 hour response time.

---

From: Dhiveshni Moodley [<mailto:DMoodley1@csir.co.za>]  
Sent: Tuesday, 10 November 2020 16:02  
To: EIA Applications <[EIAApplications@environment.gov.za](mailto:EIAApplications@environment.gov.za)>  
Cc: Lizande Kellerman <[LKellerman@csir.co.za](mailto:LKellerman@csir.co.za)>  
Subject: Request for a Pre-Application Meeting for 3 \* S&EIA Processes, near Beaufort West, Western Cape

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Dhiveshni

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**Lizande Kellerman - RE: 2020-11-0012**

---

**From:** Constance Musemburi <CMusemburi@environment.gov.za>  
**To:** Dhiveshni Moodley <DMoodley1@csir.co.za>  
**Date:** 19 Nov 2020 10:48  
**Subject:** RE: 2020-11-0012  
**Cc:** Lizande Kellerman <LKellerman@csir.co.za>, Wayne Hector <WHector@environ...

---

Dear Dhiveshni

The abovementioned pre-application meeting request and the subsequent email correspondences refer

From the agenda provided, the Department deems that a meeting is not required as the agenda items can be clarified via email. In this regard, you are required to submit your pp plan for approval. Please submit it directly to this email.

Regards

Constance

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**To:** Constance Musemburi <CMusemburi@environment.gov.za>  
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Department of Environment, Forestry and Fisheries

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Lizande Kellerman - RE: 2020-11-0012

---

From: Dhiveshni Moodley  
To: Constance Musemburi  
Date: 13 Jan 2021 16:33  
Subject: RE: 2020-11-0012  
Cc: Lizande Kellerman; Ephron Maradwa; LeratoMokoena; Wayne Hector  
Attachments: DEFF Pre-Application Presentation\_ABO Wind\_CSIR\_Kwagga 1-3 WEFs\_12012021.pdf; PP Plan\_ABO Wind\_CSIR\_Kwagga 1-3 WEFs\_FINAL\_12012021.pdf

---

Good afternoon Constance

I trust this email finds you well and in good health! Best wishes for the year ahead.

Please find attached our Public Participation Plan for the Proposed Kwagga WEFs, as requested.

Thank you again for your previous email in which you confirmed that a pre-application meeting for the Proposed Kwagga WEFs is not required, as the agenda items can be clarified via email. As a result, we have also attached a detailed presentation which describes the Proposed Kwagga WEFs.

Please can we kindly ask that you have a look at the questions we have posed on slide 24, and provide feedback at your soonest convenience?

Thank you in advance.

Kind regards  
Dhiveshni

>>> Constance Musemburi <CMusemburi@environment.gov.za> 19 Nov 2020 10:48 >>>

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Constance

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Cc: Lizande Kellerman <LKellerman@csir.co.za>; Dhiveshni Moodley <DMoodley1@csir.co.za>; Wayne Hector <WHector@environment.gov.za>; Lerato Mokoena <LMokoena@environment.gov.za>  
Subject: 2020-11-0012

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Reference Number: 2020-11-0012;  
Date Received: 10/11/2020;  
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Integrated Environmental Authorisations  
Department of Environment, Forestry and Fisheries

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Sent: Tuesday, 10 November 2020 16:02  
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Cc: Lizande Kellerman <[LKellerman@csir.co.za](mailto:LKellerman@csir.co.za)>  
Subject: Request for a Pre-Application Meeting for 3 \* S&EIA Processes, near Beaufort West, Western Cape

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Thank you in advance for your assistance with this.

Kind Regards,  
Dhiveshni

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---



**Lizande Kellerman - RE: 2020-11-0012**

---

**From:** Constance Musemburi <CMusemburi@environment.gov.za>  
**To:** Dhiveshni Moodley <DMoodley1@csir.co.za>  
**Date:** 21 Jan 2021 11:50  
**Subject:** RE: 2020-11-0012  
**Cc:** Lizande Kellerman <LKellerman@csir.co.za>, Ephron Maradwa <EMaradwa@envi...

---

Dear Dhiveshni

The abovementioned application and your email below refers

With regards to your questions, please find answers highlighted in red below:

**1.Specialist Studies**

•Are you happy with the identified Specialist Impact Assessments to be undertaken and reported on as set out in the table on Slide 13?

*Please note that the Department is not in a position to confirm that the specialist Impact Assessment identified are adequate due to limited information available at this stage of development.*

•Do you agree on our approach to the specialist reporting i.e. one report for each WEF project per environmental theme?

*This approach is acceptable provided the environment being assessed is the same.*

**2.Battery Storage (BESS)**

•Are you happy for us to include battery storage as part of the S&EIR processes for each of the proposed KwaggaWEF projects from the outset?

*Yes the BESS may be included in a WEF application provided the relevant listed activities are also included and the BESS assessment of impacts and mitigations measure is also included just like assessment of any other listed activities.*

•Note that based on the type of BESS considered for the proposed KwaggaWEF projects as per the description provided on Slide 16, it is our professional opinion that a risk assessment for battery storage inclusion at each of the proposed KwaggaWEF projects would not be required.

*Please note that a risk assessment for battery storage inclusion at each proposed development is a mandatory requirement by the Department and the findings of the risk assessments must be included in reports and the EMP.*

**3.Cumulative Impacts**

•Are you happy with our approach to the assessment of cumulative impacts as per Slide 21-22?

*Please note that the Department is not in a position to confirm cumulative assessment approach to be are adequate due to limited information available at this stage of development.*

**4.Listed Activities**

•We have provided a list of listed activities in terms of the 2014 EIA Regulations, as amended, in the pre-application meeting request application form. Are you happy with this list or are there any additional listed activities that you deem applicable and which we need to include?

*Please note that the Department can not comment or confirm on the listed activities due to limited information available at this stage of development. The onus is on the EAP and applicant to ensure that all applicable activities are included in the application form. The Department will only be able to comment on listed activities during the draft commenting stage.*

5. Public Participation

- Do you kindly approve of our PP Plan as provided?

*The PPP is forwarded to my supervisor for consideration and approval*

6. Project Schedule

- Please confirm whether you agree with the stated timeframe for decision-making i.e. 107 days after submission of the Final EIA Reports?

*Yes the Department will make a decision within the regulated timeframes in terms of NEMA EIA 2014 Regulations, as amended.*

Regards

Constance Musemburi

Directorate: Priority Infrastructure Projects

Tel: 012 399 9416

Email: [cmusemburi@environment.gov.za](mailto:cmusemburi@environment.gov.za)



environment, forestry  
& fisheries

Department:  
Environment, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

---

From: Dhiveshni Moodley [[DMoodley1@csir.co.za](mailto:DMoodley1@csir.co.za)]

Sent: 13 January 2021 04:33 PM

To: Constance Musemburi <[CMusemburi@environment.gov.za](mailto:CMusemburi@environment.gov.za)>

Cc: Lizande Kellerman <[LKellerman@csir.co.za](mailto:LKellerman@csir.co.za)>; Ephron Maradwa <[EMaradwa@environment.gov.za](mailto:EMaradwa@environment.gov.za)>;

Lerato Mokoena <[LMokoena@environment.gov.za](mailto:LMokoena@environment.gov.za)>; Wayne Hector <[WHector@environment.gov.za](mailto:WHector@environment.gov.za)>

Subject: RE: 2020-11-0012

Good afternoon Constance

I trust this email finds you well and in good health! Best wishes for the year ahead.

Please find attached our Public Participation Plan for the Proposed Kwagga WEFs, as requested.

Thank you again for your previous email in which you confirmed that a pre-application meeting for the Proposed Kwagga WEFs is not required, as the agenda items can be clarified via email.

As a result, we have also attached a detailed presentation which describes the Proposed Kwagga WEFs.

Please can we kindly ask that you have a look at the questions we have posed on slide 24, and provide feedback at your soonest convenience?

Thank you in advance.

Kind regards

Dhiveshni

>>> Constance Musemburi <[CMusemburi@environment.gov.za](mailto:CMusemburi@environment.gov.za)> 19 Nov 2020 10:48 >>>

Dear Dhiveshni

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Regards

Constance

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Sent: 11 November 2020 12:19 PM  
To: Constance Musemburi <CMusemburi@environment.gov.za>  
Cc: Lizande Kellerman <LKellerman@csir.co.za>; Dhiveshni Moodley <DMoodley1@csir.co.za>; Wayne Hector <WHector@environment.gov.za>; Lerato Mokoena <LMokoena@environment.gov.za>  
Subject: 2020-11-0012

Dear Constance

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Type of Application: Pre-Application Meeting Request;  
Reference Number: 2020-11-0012;  
Date Received: 10/11/2020;  
Action Required: Decide on meeting request.

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From: Dhiveshni Moodley [<mailto:DMoodley1@csir.co.za>]  
Sent: Tuesday, 10 November 2020 16:02  
To: EIA Applications <[EIAApplications@environment.gov.za](mailto:EIAApplications@environment.gov.za)>  
Cc: Lizande Kellerman <[LKellerman@csir.co.za](mailto:LKellerman@csir.co.za)>  
Subject: Request for a Pre-Application Meeting for 3 \* S&EIA Processes, near Beaufort West, Western Cape

Good afternoon

Please find attached a request for a pre-application meeting, completed on the pre-application meeting request form obtained from the DEFF website.

The meeting is requested to discuss the Scoping and Environmental Impact Assessment Processes for the Proposed Development of three Wind Energy Facilities; Kwagga 1 (279 MW), Kwagga 2 (341 MW) and Kwagga 3 (204.6 MW), near Beaufort West in the Western Cape Province

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Kind Regards,  
Dhiveshni

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FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment for the proposed development of the 204.6 MW Kwagga Wind Energy Facility 3 and associated infrastructure near Beaufort West in the Western Cape

---

**From:** Dhiveshni Moodley  
**To:** Lerato Mokoena  
**CC:** Constance Musemburi; Wayne Hector; Lizande Kellerman  
**Date:** 22 Jan 2021 08:11  
**Subject:** Re: PPP Plan Approval 2020-11-0012

Dear Lerato

I trust this email finds you well and in good health.

Thank you for confirming that our PP Plan for the Kwagga WEFs, is acceptable to the DEFF. We will proceed accordingly.

Kind regards

Dhiveshni

>>> Lerato Mokoena <LMokoena@environment.gov.za> 21 Jan 2021 14:31 >>>

Dear Dhiveshni

Please note that your PPP Plan is acceptable to the Department and you may continue as proposed.

Regards

Lerato Mokoena

DEFF

Tel: 012-399 9418

---

**From:** Dhiveshni Moodley [mailto:DMoodley1@csir.co.za]

**Sent:** 13 January 2021 04:33 PM

**To:** Constance Musemburi <CMusemburi@environment.gov.za>

**Cc:** Lizande Kellerman <LKellerman@csir.co.za>; Ephron Maradwa <EMaradwa@environment.gov.za>; Lerato Mokoena <LMokoena@environment.gov.za>; Wayne Hector <WHector@environment.gov.za>

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**To:** Constance Musemburi <CMusemburi@environment.gov.za>

**Cc:** Lizande Kellerman <LKellerman@csir.co.za>; Dhiveshni Moodley <DMoodley1@csir.co.za>; Wayne Hector

FINAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: Scoping and Environmental Impact Assessment for the proposed development of the 204.6 MW Kwagga Wind Energy Facility 3 and associated infrastructure near Beaufort West in the Western Cape

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<WHector@environment.gov.za>; Lerato Mokoena <LMokoena@environment.gov.za>  
Subject: 2020-11-0012

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Integrated Environmental Authorisations  
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Please also see attached the document control form as requested. Please note that this request for the pre-application meeting is being submitted via email, as per the instructions provided. Hence some of the information in the checklist relating to uploading documents on the Novell Filr is not applicable.

Please will you kindly confirm receipt of the attached and this email.

Thank you in advance for your assistance with this.

Kind Regards,  
Dhiveshni

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