



## forestry, fisheries & the environment

Department:  
Forestry, Fisheries and the Environment  
**REPUBLIC OF SOUTH AFRICA**

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

**DFFE Reference:** 14/12/16/3/3/2/2120

**Enquiries:** Herman Alberts

**Telephone:** (012) 399 9371 **E-mail:** HAlberts@dfpe.gov.za

Mr Davin Chown  
Genesis Enertrag Koup 1 Wind Farm (Pty) Ltd  
PO Box 363  
Newlands  
**CAPE TOWN**  
7725

Cell Number: (083) 460 3898  
Email Address: davin@genesis-eco.com

### PER EMAIL

Dear Mr Chown

### **APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: THE KOUP 1 WIND ENERGY FACILITY (WEF) AND ITS ASSOCIATED INFRASTRUCTURE NEAR BEAUFORT WEST IN THE WESTERN CAPE PROVINCE**

With reference to the above application, please be advised that the Department has decided to grant authorisation. The Environmental Authorisation (EA) and reasons for the decision are attached herewith.

In terms of Regulation 4(2) of the Environmental Impact Assessment Regulations, 2014, as amended (the EIA Regulations), you are instructed to notify all registered interested and affected parties, in writing and within fourteen (14) days of the date of the decision, of the Department's decision as well as the provisions regarding the submission of appeals that are contained in the EIA Regulations.

In terms of the Promotion of Administrative Justice Act, 2000 (Act No. 3 of 2000), you are entitled to the right to fair, lawful and reasonable administrative action; and to written reasons for administrative action that affects you negatively. Further your attention is drawn to the provisions of the Protection of Personal Information Act, 2013 (Act No. 4 of 2013) which stipulates that the Department should conduct itself in a responsible manner when collecting, processing, storing and sharing an individual or another entity's personal information by holding the Department accountable should the Department abuses or compromises your personal information in any way.

Your attention is drawn to Chapter 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) National Appeal Regulations published under Government Notice R993 in Government Gazette No. 38303 dated 08 December 2014 (National Appeal Regulations, 2014), which prescribe the appeal procedure to be followed. Kindly include a copy of this document (National Appeal Regulations, 2014) with the letter of notification to interested and affected parties in this matter.

Should any person wish to lodge an appeal against this decision, he/she must submit the appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party, and any organ of state with interest in the matter within twenty (20) days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

**Appeals must be submitted in writing in the prescribed form to:**

The Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: [appealsdirectorate@dffe.gov.za](mailto:appealsdirectorate@dffe.gov.za);

By hand: Environment House  
473 Steve Biko  
Arcadia  
Pretoria  
0083; or

By post: Private Bag X447  
Pretoria  
0001

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at [https://www.dffe.gov.za/documents/forms#legal\\_authorisations](https://www.dffe.gov.za/documents/forms#legal_authorisations) or request a copy of the documents at [appealsdirectorate@dffe.gov.za](mailto:appealsdirectorate@dffe.gov.za).

Yours faithfully



**Ms Millicent Solomons**  
**Acting Chief Director: Integrated Environmental Authorisations**  
**Department of Forestry, Fisheries and the Environment**  
Date: 12/09/2022.

cc:	Zaahir Toefy	WC DEADP	Email: <a href="mailto:Zaahir.toefy@westerncape.gov.za">Zaahir.toefy@westerncape.gov.za</a>
	Michelle Guy	SIVEST SA (Pty) Ltd	Email: <a href="mailto:michelleg@sivest.co.za">michelleg@sivest.co.za</a>
	Kosie Haarhoff	Beaufort West Local Municipality	Email: <a href="mailto:kosieh@beaufortwestmun.co.za">kosieh@beaufortwestmun.co.za</a>
	Anneleen Vorster	Prince Albert Local Municipality	Email: <a href="mailto:annaleen@pamun.gov.za">annaleen@pamun.gov.za</a>



## forestry, fisheries & the environment

Department:  
Forestry, Fisheries and the Environment  
REPUBLIC OF SOUTH AFRICA

# Environmental Authorisation

In terms of Regulation 25 of the Environmental Impact Assessment Regulations, 2014, as amended

The Koup 1 Wind Energy Facility (WEF) and its associated infrastructure near Beaufort West in the  
Western Cape Province

Central Karoo District Municipality

<b>Authorisation register number:</b>	<i>14/12/16/3/3/2/2120</i>
<b>Last amended:</b>	<i>First issue</i>
<b>Holder of authorisation:</b>	<i>Genesis Enertrag Koup 1 Wind Farm (Pty) Ltd</i>
<b>Location of activity:</b>	<i>The Farm Riet Poort No. 231; Portion 11 of the Farm Brits Eigendom No. 374; Portion 15 of the Farm Brits Eigendom No. 374; Portion 5 of the Farm Kaatjies Kraal No. 380; Portion 10 of the Farm Kaatjies Kraal No. 380; Portion 11 of the Farm Kaatjies Kraal No. 380; Beaufort West Local Municipality; Prince Albert Municipality; Central Karoo District Municipality; Western Cape Province.</i>

This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

## Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this Environmental Authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this Environmental Authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, Act No. 107 of 1998, as amended and the EIA Regulations, 2014, as amended.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

## Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment Regulations, 2014, as amended, the Department hereby authorises –

### **GENESIS ENERTRAG KOUP 1 WIND FARM (PTY) LTD**

(hereafter referred to as the **holder of the authorisation**)

with the following contact details –

Mr Davin Chown

PO Box 363

Newlands

**CAPE TOWN**

7725

Cell Number: (083) 460 3898

Email Address: [davin@genesis-eco.com](mailto:davin@genesis-eco.com)

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to undertake the following activities (hereafter referred to as “the activity”) indicated in Listing Notice 1, Listing Notice 2 and Listing Notice 3 of the EIA Regulations, 2014 as amended:

Activity number	Activity description
<p><u>Listing Notice 1, Item 11:</u></p> <p><i>“The development of facilities or infrastructure for the transmission and distribution of electricity – (i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kV.”</i></p>	<p>One (1) new on-site substation and / or collector substation will be constructed within the proposed application site as part of the proposed development. The proposed substation will be located outside urban areas and will have a capacity of 33/132kV (33kV yard subject to this EIA / application). In addition, the substation will occupy a footprint of up to approximately 1.5 hectares (ha). The proposed development will also involve the construction of medium voltage (i.e. 33kV) cables which will connect the wind turbines to the proposed substation. These cables will be located outside an urban area and will be buried along access roads, wherever technically feasible.</p> <p>The proposed substation will be a shared substation which will consist of a 33kV voltage yard which will be owned and operated by the Applicant as well as a 132kV yard which will be owned and operated by Eskom. The substation will therefore be included in the WEF EIA (this application) and in the associated grid connection infrastructure BA (part of separate application) to allow for handover of the 132kV yard to Eskom. The substation will be constructed by the Applicant, however, ownership of the 132kV yard portion will be ceded to Eskom after construction.</p>

<p><u>Listing Notice 1, Item 12:</u></p> <p><i>"The development of –</i></p> <p><i>(ii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs –</i></p> <p><i>(a) within a watercourse;</i></p> <p><i>(c) if no development setback exists, within 32m of a water course, measured from the edge of a watercourse."</i></p>	<p>The proposed development will entail the construction of a WEF and associated infrastructure (including an on-site substation and BESS) within the proposed application site which will have a physical footprint of approximately 100m<sup>2</sup> or more and will occur within some of the surface water features / watercourses identified within the application site or within 32m of some of the surface water features / watercourses identified within the application site.</p> <p>The infrastructure associated with the proposed development will avoid the surface water features / watercourses identified within the application site where possible, although some structures (such as internal site roads) will occur within some of the surface water features / watercourses identified within the application site and / or within 32m of some of the surface water features / watercourses identified within the application site.</p>
<p><u>Listing Notice 1, Item 14:</u></p> <p><i>"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 80 but not exceeding 500 cubic metres."</i></p>	<p>The proposed development will include the construction of an on-site Battery Energy Storage System (BESS). Up to 40MW of batteries using solid state / liquid flow batteries with hazardous material of more than 80m<sup>3</sup> will be used but most likely will comprise an array of containers, outdoor cabinets and / or storage tanks. The preferred technology is Lithium Ion. It should be noted that no stand-alone facilities for the storage of dangerous goods external to the BESS will be constructed as part of the proposed development.</p>

<p><u>Listing Notice 1, Item 19:</u></p> <p><i>“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.”</i></p>	<p>The proposed development involves the construction of a WEF as well as other associated infrastructure (including an on-site substation and BESS) within the proposed application site. The Surface Water Impact Assessment revealed that there are surface water features / watercourses located within the application site. As such, the proposed development will involve the infilling or depositing of any material of more than 10m<sup>3</sup> into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10m<sup>3</sup> from some of the identified surface water features / watercourses.</p> <p>Although the layout of the proposed development has been designed to avoid the identified surface water features / watercourses as far as possible, some of the internal site roads to be constructed (as required) will need to traverse some of the identified surface water features / watercourses. In addition, during construction of these roads (as required), soil will need to be removed from some of the identified surface water features / watercourses.</p>
<p><u>Listing Notice 1, Item 24:</u></p> <p><i>“The development of a road – (ii) with a reserve wider than 13.5 m, or where no reserve exists where the road is wider than 8 m;”</i></p>	<p>Internal roads are required within the application site in order to provide access to each wind turbine, the on-site and / or collector substation and the BESS, as well as to facilitate access throughout the WEF. Existing site roads will be used wherever possible, although new site roads will be constructed where necessary. In addition, turns will have a radius of up to approximately 50m for abnormal loads (especially turbine blades) to access the various wind turbine positions.</p>

	<p>As such, the proposed development will involve the construction of new internal roads within the application site, as required. It is proposed that these new internal access roads will be between approximately 8m and 10m wide.</p>
<p><u>Listing Notice 1, Item 28:</u>  <i>“Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development:                  (ii) will occur outside an urban area, where the total land to be developed is bigger than 1 ha;”</i></p>	<p>The proposed development site is currently zoned for agricultural land use, however, the property is no longer actively used for agricultural activities. The proposed development will result in special zoning being required, as an area greater than 1ha will be transformed into industrial / commercial use.</p>
<p><u>Listing Notice 1, Item 28</u>  <i>(i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more; where such expansion occurs—                  (a) within a watercourse; or                  (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;”</i></p>	<p>Internal roads are required within the application site in order to provide access to each wind turbine, the on-site and / or collector substation and the BESS, as well as to facilitate access throughout the WEF. Existing site roads will be used wherever possible, although internal roads will be upgraded where necessary. The Surface Water Impact Assessment revealed that there are surface water features / watercourses located within the application site.</p> <p>Although the layout of the proposed development has been designed to avoid the surface water features / watercourses identified within the application site as far as possible, some of the internal roads to be upgraded will need to traverse some of the surface water features / watercourses identified within the application site and construction will occur within some of the surface water features / watercourses identified within the application site and / or be within</p>



	<p>32m of some of the surface water features / watercourses identified within the application site.</p> <p>As such, the proposed development will entail the expansion (upgrading) of roads and other infrastructure by 100m<sup>2</sup> or more within some of the surface water features / watercourses identified within the application site or within 32m from the edge of a surface water features / watercourses identified within the application site.</p>
<p><u>Listing Notice 1, Item 56:</u></p> <p><i>“The widening of a road by more than 6 m, or lengthening of a road by more than 1 km – (ii) where no reserve exists, where the existing road is wider than 8 metres;”</i></p>	<p>Internal roads are required within the application site in order to provide access to each wind turbine, the on-site and / or collector substation and the BESS, as well as to facilitate access throughout the WEF. Existing site roads will be used wherever possible, although new site roads will be constructed where necessary. It is proposed that these new internal access roads will be between approximately 8m and 10m wide. The existing internal roads will thus need to be upgraded by widening them more than 6m, or by lengthening them by more than 1km.</p>
<p><u>Listing Notice 2, Item 01:</u></p> <p><i>“The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 MW or more.”</i></p>	<p>The proposed development will entail the development of a WEF, on-site substation and BESS with a maximum generation capacity of up to 184MW. In addition, the proposed development will be located outside an urban area.</p>

<p><u>Listing Notice 2, Item 15:</u></p> <p><i>“The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for</i></p> <p><i>(i) the undertaking of a linear activity; or</i></p> <p><i>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.”</i></p>	<p>The proposed WEF development will involve the clearance of more than 20ha of indigenous vegetation. Clearance will also be required for the proposed on-site substation, BESS, internal roads and other associated infrastructure. A Terrestrial Ecology Impact Assessment has been undertaken to assess the impacts of the proposed development on indigenous vegetation.</p>
<p><u>Listing Notice 3, Item 04:</u></p> <p><i>“The development of a road wider than 4 metres with a reserve less than 13,5 metres.</i></p> <p><i>i. Western Cape</i></p> <p><i>ii. Areas outside urban areas</i></p> <p><i>(aa) Areas containing indigenous vegetation.”</i></p>	<p>Internal roads are required within the application site in order to provide access to each wind turbine, the on-site and / or collector substation and the BESS, as well as to facilitate access throughout the WEF. Existing site roads will be used wherever possible, although new site roads will be constructed where necessary. It is proposed that these new internal access roads will be between approximately 8m and 10m wide. In addition, turns will have a radius of up to approximately 50m for abnormal loads (especially turbine blades) to access the various wind turbine positions.</p> <p>The above-mentioned internal roads (existing and new roads to be constructed, where required) within the application site will occur within the Western Cape Province, outside urban areas. In addition, the proposed development site contains indigenous vegetation.</p>
<p><u>Listing Notice 3, Item 14:</u></p> <p><i>“The development of-</i></p> <p><i>(ii) infrastructure or structures with a physical footprint of 10 square metres or more;</i></p> <p><i>where such development occurs-</i></p>	<p>The proposed energy facility will entail the development of roads and other infrastructure with a physical footprint of 10m<sup>2</sup> or more within a watercourse or within 32m from the edge of a</p>

<p><i>(a) within a watercourse;</i>  <i>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</i>  <i>i. Western Cape</i>  <i>i. Outside urban areas:</i>  <i>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;”</i></p>	<p>watercourse. Although the layout of the proposed development will be designed to avoid the identified surface water features as far as possible, some of the internal and access roads, will need to traverse the identified surface water features.</p>
<p><u>Listing Notice 3, Item 18:</u>  <i>“The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</i>  <i>i. Western Cape</i>  <i>ii. All areas outside urban areas:</i>  <i>(aa) Areas containing indigenous vegetation;”</i></p>	<p>Internal roads are required within the application site in order to provide access to each wind turbine, the on-site and / or collector substation and the BESS, as well as to facilitate access throughout the WEF. Existing site roads will be used wherever possible, although new site roads will be constructed where necessary. It is proposed that these new internal access roads will be between approximately 8m and 10m wide.</p> <p>Existing internal roads will thus need to be upgraded as part of the proposed development (where required). Internal roads will be widened by more than 4m or lengthened by more than 1km. These roads located within the application site will occur within the Western Cape Province, outside urban areas. In addition, the proposed development site contains indigenous vegetation.</p>
<p><u>Listing Notice 3, Item 23:</u>  <i>“The expansion of—</i>  <i>(ii) infrastructure or structures where the physical footprint is expanded by 10 square metres or more;</i></p>	<p>The proposed development will entail the development and expansion of roads and other infrastructure by 10m<sup>2</sup> or more within a watercourse or within 32m from the edge of a watercourse.</p>

<p>where such expansion occurs—</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback adopted in the prescribed manner; or</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>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>Although the layout of the proposed development will be designed to avoid the identified surface water features as far as possible, some of the existing internal and access roads will need to traverse some of the identified surface water features.</p> <p>The proposed development occurs within an ESAs, and is located outside an urban area. An ecological impact assessment (Appendix 6) was undertaken to assess the impacts of the proposed development. In addition, a surface water impact assessment (Appendix 6) was undertaken to assess the impacts of the proposed development on the identified surface water features.</p>
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as described in the Environmental Impact Assessment Report (EIAr) dated June 2022 at:

**SG 21 Codes:**

C	0	0	9	0	0	0	0	0	0	0	0	0	3	7	4	0	0	0	1	1
C	0	0	9	0	0	0	0	0	0	0	0	0	3	7	4	0	0	0	1	5
C	0	6	1	0	0	0	0	0	0	0	0	0	2	3	1	0	0	0	0	0
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	0	5
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	1	8
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	1	0

**Coordinates:**

<b>KOUP 1 WEF</b>		
<b>COORDINATES AT CORNER POINTS</b>		
<b>Point</b>	<b>South</b>	<b>East</b>
1.	S32° 50' 36.020"	E22° 26' 37.756"
2.	S32° 50' 51.961"	E22° 28' 4.418"
3.	S32° 51' 0.932"	E22° 28' 6.002"
4.	S32° 50' 36.319"	E22° 28' 38.215"
5.	S32° 50' 49.589"	E22° 31' 22.688"

6.	S32° 50' 1.777"	E22° 32' 34.613"
7.	S32° 50' 5.053"	E22° 32' 51.295"
8.	S32° 52' 58.325"	E22° 33' 7.497"
9.	S32° 52' 39.135"	E22° 31' 9.123"
10.	S32° 52' 37.782"	E22° 30' 31.526"
11.	S32° 52' 36.445"	E22° 30' 27.738"
12.	S32° 52' 36.917"	E22° 30' 6.930"
13.	S32° 52' 36.054"	E22° 30' 0.458"
14.	S32° 52' 28.521"	E22° 29' 47.703"
15.	S32° 52' 27.937"	E22° 29' 41.656"
16.	S32° 52' 12.336"	E22° 29' 19.904"
17.	S32° 52' 35.465"	E22° 27' 20.433"
18.	S32° 52' 18.646"	E22° 23' 48.772"
19.	S32° 51' 1.495"	E22° 26' 12.579"

<b>COORDINATES AT CENTRE POINT</b>		
<b>POINT</b>	<b>SOUTH</b>	<b>EAST</b>
20.	S32° 51' 34.738"	E22° 28' 54.082"

<b>KOUP 1 SUBSTATION AND BESS</b>		
<b>SITE ALTERNATIVE</b>	<b>SOUTH</b>	<b>EAST</b>
OPTION 1	S32° 52' 42.085"	E22° 32' 1.356"

<b>KOUP 1 CONSTRUCTION LAYDOWN / OPERATION AND MAINTENANCE BUILDING</b>		
<b>SITE ALTERNATIVE</b>	<b>SOUTH</b>	<b>EAST</b>
OPTION 1	S32°52'37.88"	E22°32'3.24"

- for the Koup 1 Wind Energy Facility (WEF) and its associated infrastructure near Beaufort West in the Western Cape Province, hereafter referred to as "the property".

The facility will comprise the following:

- A total of 28 wind turbines, each between 5.6MW and 6.6MW, with a maximum export capacity of approximately 184MW;
- Each wind turbine will have a hub height and rotor diameter of up to approximately 200m;

- Permanent compacted hardstanding areas / platforms (also known as crane pads) of approximately 90m x 50m (total footprint of approx. 4 500m<sup>2</sup>) per turbine during construction and for on-going maintenance purposes for the lifetime of the proposed development. A crane hardstand at each turbine position where the main lifting crane will be erected and / or disassembled;
- Temporary laydown areas will be established for the storage of wind turbine components, including the cranes required for tower/turbine assembly and civil engineering construction equipment. Laydown areas will also accommodate building materials and equipment associated with the construction of buildings;
- Each wind turbine will consist of a foundation with dimensions of approximately 30m x 30m x 5m in diameter;
- Electrical transformers adjacent to each wind turbine (typical footprint of up to approximately 2m x 2m) to step up the voltage to 33kV;
- One (1) new 33/132kV on-site substation and / or combined collector substation, occupying an area of approximately 1.5ha;
- The wind turbines will be connected to the proposed substation via medium voltage (33kV) cables. Cables will be buried along access roads wherever technically feasible;
- A Battery Energy Storage System (BESS) will be located next to the onsite 33/132kV substation. Up to 40MW of batteries using solid state / liquid flow batteries with hazardous material of more than 80m<sup>3</sup> will be used;
- Internal roads with a width of between 8m and 10m will provide access to each wind turbine. Existing site roads will be used wherever possible, although new site roads will be constructed where necessary. Turns will have a radius of up to 50m for abnormal loads (especially turbine blades) to access the various wind turbine positions;
- It should be noted that the proposed application site will be accessed via an existing gravel road from the N12 National Route (±25km of existing road, 31.27km of new roads to be constructed);
- One (1) construction laydown / staging area of up to approximately 2.25ha. It should be noted that no construction camps will be required in order to house workers overnight as all workers will be accommodated in the nearby town;
- One (1) permanent Operation and Maintenance (O&M) building, including an on-site spares storage building, a workshop and an operations building to be located on the site identified for the construction laydown area;
- A wind measuring lattice (approximately 120m in height) mast has already been strategically placed within the wind farm application site in order to collect data on wind conditions;
- No new fencing is envisaged at this stage. Current fencing is standard farm fence approximately 1-1.5m in height. Fencing might be upgraded (if required) to be up to approximately 2m in height;

- Water will either be sourced from existing boreholes located within the application site or will be trucked in, should the boreholes located within the application site be limited;
- No borrow pits will be required, infilling or depositing materials will be sourced from licenced borrow pits within the surrounding areas; and
- A temporary concrete batching plant extent to facilitate the concrete requirements for turbine foundations.

Technical details of the proposed facility:

<b>Component</b>	<b>Description/ Dimensions</b>
Location of the site	32°51'41.01"S 22°27'24.65"E
Application site area	4279,398492 ha
SG Codes	C0610000000023100000 C00900000000037400011 C00900000000037400015 C00900000000038000005 C00900000000038000010 C00900000000038000011
Site access	Access to the Koup 1 WEF site will be from the existing access, located $\pm 1$ 430m west from the surfaced N12 National Road (Road No: TR03305) and falls under the jurisdiction of the Western Cape Provincial Administration. The existing access is located at Km 51.80 and provides access to the farms situated on both east and west of the N12 Freeway. The access to this development is towards the west from the N12 Freeway and traverses over the Remainder of Portion 4 of the farm 374 as a gravel access road up to the existing farm access.
Export capacity	Up to 184MW
Proposed technology	Wind turbines and associated infrastructure
Number of Turbines	A total of 28 wind turbines
Hub height from ground level	Up to 200m
Rotor diameter	Up to 200m
Substation	Approximately 1.5 hectare (ha)
Construction laydown area / O&M building area	Approximately 2.25 hectare (ha)

Hard stand areas	Approximately 4 500m <sup>2</sup>
Battery Energy Storage System (BESS)	A Battery Energy Storage System (BESS) will be located next to the onsite 33/132kV substation. Up to 40MW of batteries using solid state / liquid flow batteries with hazardous material of more than 80m <sup>3</sup> will be used but most likely will comprise an array of containers, outdoor cabinets and / or storage tanks
Width of internal access roads	Between approximately 8m and 10m
Width and length of internal roads	±25km of existing road 31.27km of new roads to be constructed
Height of fencing	Approximately 1m – 1.5m high
Proximity to grid connection	Approximately 1km from application site
Type of fencing	Galvanized steel

## Conditions of this Environmental Authorisation

### Scope of authorisation

1. The Koup 1 Wind Energy Facility (WEF) and its associated infrastructure near Beaufort West in the Western Cape Province is approved as per the geographic coordinates cited in the table above.
2. Authorisation of the activity is subject to the conditions contained in this Environmental Authorisation, which form part of the Environmental Authorisation and are binding on the holder of the authorisation.
3. The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this Environmental Authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.
4. The activities authorised may only be carried out at the property as described above.
5. Any changes to, or deviations from, the project description set out in this Environmental Authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further Environmental Authorisation in terms of the regulations.



6. The holder of an Environmental Authorisation must apply for an amendment of the Environmental Authorisation with the Competent Authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.
7. This activity must commence within a period of ten (10) years from the date of issue of this Environmental Authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for Environmental Authorisation must be made in order for the activity to be undertaken.
8. Construction must be completed within five (05) years of the commencement of the activity on site.
9. Commencement with one activity listed in terms of this Environmental Authorisation constitutes commencement of all authorised activities.

#### **Notification of authorisation and right to appeal**

10. The holder of the authorisation must notify every registered interested and affected party, in writing and within 14 (fourteen) calendar days of the date of this Environmental Authorisation, of the decision to authorise the activity.
11. The notification referred to must –
  - 11.1. specify the date on which the authorisation was issued;
  - 11.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
  - 11.3. advise the interested and affected party that a copy of the authorisation will be furnished on request;  
and
  - 11.4. give the reasons of the Competent Authority for the decision.

#### **Commencement of the activity**

12. The authorised activity shall not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No. 107 of 1998, as amended will suspend the Environmental Authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.

## Management of the activity

13. A final site layout plan for the Koup 1 WEF and its associated infrastructure near Beaufort West in the Western Cape Province, as determined by the detailed engineering phase and micro-siting of the wind turbine positions, and all mitigation measures as dictated by the final site layout plan, must be submitted to the Department for approval prior to construction. A copy of the final site layout map must be made available for comments to registered Interested and Affected Parties and the holder of this Environmental Authorisation must consider such comments. Once amended, the final development layout map must be submitted to the Department for written approval prior to commencement of the activity. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g., roads. The layout map must indicate the following:
  - 13.1. The position of wind turbines and associated infrastructure;
  - 13.2. Internal and access roads indicating width;
  - 13.3. The BESS, substation(s) inverters and / or transformer(s) sites including their entire footprints;
  - 13.4. Connection routes (including pylon positions) to the distribution/transmission network;
  - 13.5. Buildings, including accommodation;
  - 13.6. All existing infrastructure on the site;
  - 13.7. Wetlands, drainage lines, rivers, stream and water crossing of roads and cables;
  - 13.8. All sensitive features e.g., Important Bird Areas, Critical Biodiversity Areas, Ecological Support Areas, heritage sites, wetlands, pans and drainage channels that will be affected by the facility and associated infrastructure; and
  - 13.9. All "no-go" and buffer areas.
14. The Environmental Management Programme (EMPr) submitted as part of the EIAr dated June 2022 is not approved and must be amended to include measures as dictated by the final site lay-out map and micro-siting, and the provisions of this Environmental Authorisation. The EMPr must be made available for comments by registered Interested and Affected Parties and the holder of this Environmental Authorisation must consider such comments. Once amended, the final EMPr must be submitted to the Department for written approval prior to commencement of the activity.
15. The EMPr amendments must include the following:
  - 15.1. All recommendations and mitigation measures recorded in the EIAr and the specialist reports as included in the final EIAr dated June 2022.
  - 15.2. The requirements and conditions of this authorisation.
  - 15.3. The final site layout map.
  - 15.4. A construction and operational avifauna and bat monitoring plan.

- 15.5. An alien invasive management plan to be implemented during construction and operation of the facility. The plan must include mitigation measures to reduce the invasion of alien species and ensure that the continuous monitoring and removal of alien species is undertaken.
- 15.6. A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site in consultation with the ECO and be implemented prior to commencement of the construction phase.
- 15.7. A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility. Restoration must be undertaken as soon as possible after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.
- 15.8. A transportation plan for the transport of turbine components, main assembly cranes and other large equipment.
- 15.9. A traffic management plan for the site access roads to ensure that no hazards would result from the increased truck traffic and that traffic flow would not be adversely impacted. This plan must include measures to minimize impacts on local commuters e.g. limiting construction vehicles travelling on public roadways during the morning and late afternoon commute time and avoid using roads through densely populated built-up areas so as not to disturb existing retail and commercial operations.
- 15.10. A storm water management plan to be implemented during the construction and operation of the facility. The plan must ensure compliance with applicable regulations and prevent off-site migration of contaminated storm water or increased soil erosion. The plan must include the construction of appropriate design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
- 15.11. An erosion management plan for monitoring and rehabilitating erosion events associated with the facility. Appropriate erosion mitigation must form part of this plan to prevent and reduce the risk of any potential erosion.
- 15.12. An effective monitoring system to detect any leakage or spillage of all hazardous substances during their transportation, handling, use and storage. This must include precautionary measures to limit the possibility of oil and other toxic liquids from entering the soil or storm water systems.
- 15.13. A fire management plan to be implemented during the construction and operational phases.

- 15.14. Measures to protect hydrological features such as streams, rivers, pans, wetlands, dams and their catchments, and other environmental sensitive areas from construction impacts including the direct or indirect spillage of pollutants.
- 15.15. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- 15.16. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map. This map must reflect the proposed location of the turbine as stated in the BAR and this authorisation.
16. Part C (Site Specific Environmental Attributes) of the generic EMPr (Annexure G) for the substations and all associated infrastructure, submitted as part of the final EIAR dated June 2022, is not approved. Part C must be amended to include measures as dictated by the final site lay-out map and micro-siting, and the provisions of this Environmental Authorisation. Part C of the generic EMPrs must be made available for comments to registered Interested and Affected Parties and the holder of this Environmental Authorisation must consider such comments. Once amended, the generic EMPrs must be submitted to the Department for written approval of Part C prior to commencement of the activity. Part C of the generic EMPrs must be amended to include the following:
  - 16.1. The requirements and conditions of this Environmental Authorisation;
  - 16.2. Measures as dictated by the final site lay-out map and micro-siting;
  - 16.3. All recommendations and mitigation measures recorded in the EIAR and the specialist reports as included in the final EIAR dated June 2022;
  - 16.4. All recommendations and mitigation measures to be implemented for the operational phase of the dangerous goods facility;
  - 16.5. An effective monitoring system to detect any leakage or spillage of any hazardous substances during their transportation, handling, use or storage. This must include precautionary measures to limit the possibility of oil and other toxic liquids from entering the soil or storm water systems;
  - 16.6. A fire management plan to be implemented during the construction and operation of the facility;
  - 16.7. A re-vegetation and habitat rehabilitation plan. The plan must provide for restoration to be undertaken as soon as possible after completion of construction activities, to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.
  - 16.8. An aquatic rehabilitation and monitoring plan, particularly for watercourse features that will be infilled and / or excavated;
  - 16.9. A stormwater management plan; and
  - 16.10. The final site layout map.

17. Once approved the EMPrs must be implemented and adhered to. They shall be seen as dynamic documents and shall be included in all contract documentation for the development.
18. Changes to the approved EMPrs must be submitted in accordance with the EIA Regulations applicable at the time.
19. The Department reserves the right to amend the approved EMPrs should any impacts that were not anticipated or covered in the EIAr be discovered.

#### **Frequency and process of updating the EMPr**

20. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 27 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the Environmental Authorisation or EMPr.
21. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
22. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of the EIA Regulations, 2014 as amended. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.
23. In assessing whether to grant approval of an EMPr which has been updated as a result of an audit, the Department will consider the processes prescribed in Regulation 35 of the EIA Regulations, 2014 as amended. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
24. The holder of the authorisation must apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of the EIA Regulations, 2014, as amended. The holder of the authorisation must request comments on the proposed amendments to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.

## Monitoring

25. The holder of the authorisation must appoint an experienced Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this Environmental Authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
  - 25.1. The ECO must be appointed before commencement of any authorised activities.
  - 25.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.
  - 25.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
  - 25.4. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

## Recording and reporting to the Department

26. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this Environmental Authorisation, must be submitted to the *Director: Compliance Monitoring* of the Department.
27. The holder of the Environmental Authorisation must, for the period during which the Environmental Authorisation and EMPr remain valid, ensure that project compliance with the conditions of the Environmental Authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department.
28. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, taking into account the processes for such auditing as prescribed in Regulation 34 of the EIA Regulations, 2014 as amended.
29. The holder of the authorisation must, in addition, submit environmental audit reports to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.
30. The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014 as amended and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the Environmental Authorisation conditions as well as the requirements of the approved EMPr.

31. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

### **Notification to authorities**

32. A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number.

### **Operation of the activity**

33. A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.

### **Site closure and decommissioning**

34. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and Competent Authority at that time.

### **Specific conditions**

#### Avifauna and bats

35. The results of the pre-construction bird monitoring assessment including all recommendations proposed by the reports dated June 2022, must inform the final layout and the construction schedule of the WEF.
36. The facility must be designed in a manner that, infrastructure components that could be used as perching or roosting substrates by birds and bats must be prohibited.
37. The holder of this Environmental Authorisation must restrict the construction activities to the footprint area. No access to the remainder of the property is allowed.
38. Anti-collision devices such as bird flappers must be installed where power lines cross avifaunal corridors (e.g. grasslands, rivers, wetlands, and dams). The input of an avifaunal specialist must be obtained for the fitting of the anti-collision devices onto specific sections of the line once the exact positions of the

towers have been surveyed and pegged. Additional areas of high sensitivity along the preferred alignment must also be identified by the avifaunal specialist for the fitment of anti-collision devices. These devices must be according to Eskom's Transmission and EWT's Guidelines.

39. A pre-construction walk through of the approved power line alignment and turbine positions by a bat specialist, avifaunal specialist and ecologist, must be conducted to ensure that the micro-siting of the turbines, pylons and power line alignment have the least possible impact, there are no nests sites of priority species on or close to the construction corridor, and all protected plant species impacted are identified.
40. A construction monitoring plan must be developed and be implemented to survey impacts resulting from the infrastructure installation on the bird communities with focus on assessing the displacement and disturbance effects of the development on the bird communities, as well as continue to gather information on the bird communities present in the area and monitor the effectiveness of the mitigation measures for a minimum duration of at least three years during operation.
41. A bat monitoring program to determine the actual impacts on the bat community must be carried out for a minimum of three years, and utilization of red lights in the turbines to minimize insect attraction and bat foraging behaviours near the turbines is encouraged.
42. All bird monitoring must be conducted in accordance with the latest BirdLife South Africa/Endangered Wildlife Trust: Best practice guidelines for avian monitoring and impact mitigation at proposed wind energy development sites in Southern Africa.

#### Vegetation, wetlands and water resources

43. The 'no-go' areas of the development property must be clearly demarcated and must be excluded from the final layout plan.
44. All watercourses and associated wetlands are regarded as sensitive. All developments within 500m of watercourses must comply with the National Water Act.
45. No transmission line towers, substations and construction camps will be placed within the delineated water courses as well as their respective buffers without obtaining the required approvals. A 32m buffer must be applied along all identified watercourses and a 50m buffer must be applied along all identified wetlands.
46. A pre-construction survey of the final development footprint must be conducted by a qualified floral specialist to identify protected species affected by the proposed development. Prior to the commencement of construction, a rescue and rehabilitation operation for these species which could survive translocation must be conducted.



47. Construction activities must be restricted to demarcated areas to restrict the impact on sensitive environmental features.
48. All areas of disturbed soil must be reclaimed using only indigenous grass and shrubs. Reclamation activities shall be undertaken according to the rehabilitation plan to be included in the final EMPr.
49. Topsoil from all excavations and construction activities must be salvaged and reapplied during reclamation.
50. No exotic plants may be used for rehabilitation purposes; only indigenous plants of the area may be utilised.
51. Cleared alien vegetation must not be dumped on adjacent intact vegetation during clearing but must be temporarily stored in a demarcated area.
52. Removal of alien invasive species or other vegetation and follow-up procedures must be in accordance with the Conservation of Agricultural Resources Act, 1983 (Act 43 of 1983).
53. Contractors and construction workers must be clearly informed of the no-go areas.
54. Where roads pass right next to major water bodies, provision shall be made for fauna such as toads to pass under the roads by using culverts or similar structures.
55. Bridge design must be such that it minimise impact to riparian areas with minimal alterations to water flow and must allow the movement of fauna and flora.
56. The final development area should be surveyed for species suitable for search and rescue, which should be trans-located prior to the commencement of construction.
57. Electric fencing should not have any strands within 30cm of the ground, which should be sufficient to allow smaller mammals, reptiles and tortoises to pass through, but still remain effective as a security barrier.
58. Disturbed areas must be rehabilitated as soon as possible after construction with locally indigenous plants to enhance the conservation of existing natural vegetation on site.
59. Wetlands, rivers and river riparian areas must be treated as "no-go" areas and appropriately demarcated as such. No vehicles, machinery, personnel, construction material, fuel, oil, bitumen or waste must be allowed into these areas without the express permission of and supervision by the ECO, except for rehabilitation work in these areas.
60. Workers must be made aware of the importance of not destroying or damaging the vegetation along rivers and in wetland areas and this awareness must be promoted throughout the construction phase.
61. Freshwater ecosystems located in close proximity to the construction areas must be inspected on a regular basis by the ECO for signs of disturbance from construction activities. If signs of disturbance are noted, immediate action must be taken to remedy the situation and, if necessary, a freshwater ecologist must be consulted for advice on the most suitable remediation measures.
62. No discharge of effluents or polluted water must be allowed into any rivers or wetland areas.

63. If construction areas are to be pumped of water (e.g. after rains), this water must be pumped into an appropriate settlement area, and not allowed to flow into any rivers or wetland areas.
64. Workers must be made aware of the importance of not polluting rivers or wetlands and of not undertaking activities that could result in such pollution, and this awareness must be promoted throughout the construction phase.
65. Freshwater ecosystems located in close proximity to the site must be inspected on a regular basis (but especially after rainfall) by the ECO for signs of sedimentation and pollution. If signs of sedimentation or pollution are noted, immediate action must be taken to remedy the situation and, if necessary, a freshwater ecologist must be consulted for advice on the most suitable remediation measures.

#### Roads and transportation

66. Signs must be placed along construction roads to identify speed limits, travel restrictions, and other standard traffic control information. To minimize impacts on local commuters, consideration should be given to limiting construction vehicles travelling on public roadways during the morning and late afternoon commute time.
67. All structures crossing streams must be located and constructed so that they do not decrease channel stability or increase water velocity.
68. A designated access to the site must be created and clearly marked to ensure safe entry and exit.
69. Signage must be erected at appropriate points warning of turning traffic and the construction site.
70. Construction vehicles carrying materials to the site should avoid using roads through densely populated built-up areas so as not to disturb existing retail and commercial operations.
71. Road borders should be regularly maintained to ensure that vegetation remains short and that they therefore serve as an effective firebreak.
72. Roads must be designed so that changes to surface water runoff are avoided and erosion is not initiated.
73. All construction vehicles should adhere to a low speed limit to avoid collisions with susceptible species such as snakes and tortoises.

#### Noise

74. The potential noise impact be re-evaluated should the layout be changed such that any wind turbines are located closer than 1,000m from a confirmed noise sensitive area.
75. The holder of this authorisation must ensure that the construction staff working in areas where the 8-hour ambient noise levels exceed 75dBA must wear ear protection equipment.

76. The holder of this authorisation must ensure that all equipment and machinery are well maintained and equipped with silencers.
77. The holder of this authorisation must provide a prior warning to the community when a noisy activity e.g. blasting is to take place.
78. Positions of turbines jeopardizing compliance with accepted noise levels should be revised during the micro-siting of the units in question and predicted noise levels re-modelled by the noise specialist, in order to ensure that the predicted noise levels are less than 45dB(A).
79. Construction staff must be trained in actions to minimise noise impacts.

#### Visual resources

80. The holder of this authorisation must reduce visual impacts during construction by minimising areas of surface disturbance, controlling erosion, using dust suppression techniques and restoring exposed soil as closely as possible to their original contour and vegetation.
81. A lighting engineer must be consulted to assist in the planning and placement of light fixtures in order to reduce visual impacts associated with glare and light trespass.
82. Lighting of main structures (turbines) and ancillary buildings should be designed to minimise light pollution without compromising safety, and turbines must be lit according to Civil Aviation Regulations.
83. Signage on or near wind turbines must be avoided unless they serve to inform the public about wind turbines and their function.
84. Commercial messages and graffiti on turbines are prohibited.

#### Human health and safety

85. A health and safety programme must be developed to protect both workers and the general public during construction, operation and decommissioning of the energy facility. The programme must establish a safety zone for wind turbines from residences and occupied buildings, roads, right-of-ways and other public access areas that is sufficient to prevent accidents resulting from the operation of the wind turbines.
86. Potentials interference with public safety communication systems (e.g. radio traffic related to emergency activities) must be avoided.
87. The holder of this authorisation must obtain approval from the South Africa Civil Aviation Authority that the wind facility will not interfere with the performance of aerodrome radio Communication, Navigation and Surveillance (CNS) equipment, especially the radar, prior to commencement of the activity. A copy of the approval must be kept on site by the ECO.

88. The holder of this authorisation must obtain approval from the South Africa Weather Services (WeatherSA) that the energy facility will not interfere with the performance of their equipment, especially radar, prior to commencement of the activity. A copy of the approval must be kept on site by the ECO.
89. The holder of this authorisation must train safety representatives, managers and workers in workplace safety. The construction process must be compliant with all safety and health measures as prescribed by the relevant act.
90. Liaison with land owners/farm managers must be done prior to construction in order to provide sufficient time for them to plan agricultural activities.
91. No unsupervised open fires for cooking or heating must be allowed on site.

#### Hazardous materials and waste management

92. Areas around fuel tanks must be bunded or contained in an appropriate manner as per the requirements of SABS 089:1999 Part 1.
93. Leakage of fuel must be avoided at all times and if spillage occurs, it must be remedied immediately.
94. Hazardous waste such as bitumen, oils, oily rags, paint tins etc. must be disposed of at an approved waste landfill site licensed to accept such waste.
95. No dumping or temporary storage of any materials may take place outside designated and demarcated laydown areas, and these must all be located within areas of low environmental sensitivity.
96. Hazardous substances must not be stored where there could be accidental leakage into surface or subterranean water.
97. Hazardous and flammable substances must be stored and used in compliance to the applicable regulations and safety instructions. Furthermore, no chemicals must be stored nor may any vehicle maintenance occur within 350m of the temporal zone of wetlands, a drainage line with or without an extensive floodplain or hillside wetlands.
98. Temporary bunds must be constructed around chemical storage to contain possible spills.
99. Spill kits must be made available on-site for the clean-up of spills.
100. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling and re-use options where appropriate. Where solid waste is disposed of, such disposal shall only occur at a landfill licensed in terms of section 20(b) of the National Environment Management Waste Act, 2008 (Act 59 of 2008).
101. The holder of this authorisation must provide sanitation facilities within the construction camps and along the road so that workers do not pollute the surrounding environment. These facilities must be removed

from the site when the construction phase is completed as well as associated waste to be disposed of at a registered waste disposal site.

102. The holder of this authorisation must take note that no temporary site camps will be allowed outside the footprint of the development area as the establishment of such structures might trigger a listed activity as defined in the Environmental Impact Assessment Regulations, 2014.

#### Excavation and blasting activities

103. Underground cables and internal access roads must be aligned as much as possible along existing infrastructure to limit damage to vegetation and watercourses.
104. Foundations and trenches must be backfilled with originally excavated materials as much as possible. Excess excavation materials must be disposed of only in approved areas or, if suitable, stockpiled for use in reclamation activities.
105. Borrow materials must be obtained only from authorised and permitted sites. Permits must be kept on site by the ECO.
106. Anti-erosion measures such as silt fences must be installed in disturbed areas.

#### Air emissions

107. Dust abatement techniques must be used before and during surface clearing, excavation, or blasting activities.
108. Appropriate dust suppression techniques must be implemented on all exposed surfaces during periods of high wind. Such measures may include wet suppression, chemical stabilisation, the use of a wind fence, covering surfaces with straw chippings and re-vegetation of open areas.

#### Historical / cultural / paleontological resources

109. A 30m buffer must be applied around all identified archaeological sites.
110. After initial vegetation clearance has taken place but before the ground is levelled for construction, a professional palaeontologist must undertake a walkthrough and document any identified paleontological findings. The survey/walkthrough must be conducted as per the South African Heritage Resources Agency (SAHRA) requirements.
111. Should any archaeological sites, artefacts, paleontological fossils or graves be exposed during construction work, work in the immediate vicinity of the find must be stopped, SAHRA must be informed

and the services of an accredited heritage professional obtained for an assessment of the heritage resources to be made

112. Construction managers/foremen must be informed before construction starts on the possible types of heritage sites and cultural material they may be encountered and the procedures to follow when they find sites.
113. All buffers and no-go areas stipulated in this report must be adhered to for both the facilities and all roads and power lines.
114. Should any human remains be uncovered during development they must be immediately protected in situ and reported to the heritage authorities or to an archaeologist. The remains will need to be exhumed at the cost of the developer.
115. All construction and maintenance crew and vehicles (except small vehicles which may use existing farm tracks) should be kept out of the buffer zones.
116. The final layout should be shown to the appointed archaeologist before implementation to confirm that all significant heritage resources have been adequately protected.

#### Turbines position

117. The approved turbines must be placed in a manner to avoid all designated, "no-go" areas as well as its buffers.
118. The final placement of turbines must follow a micro siting procedure involving a walk-through and identification of any sensitive areas by botanical and avifaunal specialists.
119. Exclusion of sensitive ecological, heritage and paleontological areas from construction activities must inform micro siting of all development activities.

#### **General**

120. The recommendations of the EAP in the EIAr dated June 2022 and the specialist studies attached must be adhered to. In the event of any conflicting mitigation measures and conditions of the Environmental Authorisation, the specific condition of this Environmental Authorisation will take preference.
121. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
  - 121.1. at the site of the authorised activity;
  - 121.2. to anyone on request; and

121.3. where the holder of the Environmental Authorisation has a website, on such publicly accessible website.

122. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of Environmental Authorisation: 12/09/2022.



**Ms Milicent Solomons**

**Acting Chief Director: Integrated Environmental Authorisations  
Department of Forestry, Fisheries and the Environment**

## **Annexure 1: Reasons for Decision**

### **1. Information considered in making the decision**

In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The listed activities as applied for in the application form received on 22 November 2021.
- b) The information contained in the EIAr dated June 2022.
- c) The comments received from all interested and affected parties as included in the EIAr dated June 2022.
- d) Mitigation measures as proposed in the EIAr and the EMPr.
- e) The information contained in the specialist studies contained within the appendices of the EIAr dated June 2022.

### **2. Key factors considered in making the decision**

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The need for the proposed project stems from the provision of electricity to the national grid.
- c) The EIAr dated June 2022 identified all legislation and guidelines that have been considered in the preparation of the EIAr.
- d) The location of the proposed wind energy facility.
- e) The methodology used in assessing the potential impacts identified in the EIAr dated June 2022 and the specialist studies have been adequately indicated.
- f) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014 as amended for public involvement.

### **3. Findings**

After consideration of the information and factors listed above, the Department made the following findings -

- a) The identification and assessment of impacts are detailed in the EIAr dated June 2022 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The information contained in the EIAr dated June 2022 is deemed to be accurate and credible.



- d) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- e) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAR and will be implemented to manage the identified environmental impacts during the construction phase.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the Environmental Authorisation, the authorised activities will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the authorised activities can be mitigated to acceptable levels. The Environmental Authorisation is accordingly granted.



## forestry, fisheries & the environment

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Ms. Milicent Solomons  
Director: Prioritized Infrastructure Projects

Dear Mrs Solomons

### APPOINTMENT AS ACTING CHIEF DIRECTOR: INTEGRATED ENVIRONMENTAL AUTHORIZATIONS FOR THE PERIOD OF 25 APRIL 2022 UNTIL 31 OCTOBER 2022

I hereby inform you that I have decided to appoint you as the Acting Chief Director: Integrated Environmental Authorizations for the period of 25 April to 31 October 2022 whilst Mr Sabelo Malaza is fulfilling his temporary reassignment function at the Forestry Branch.

All the correspondence and other documents that are usually signed by the Chief Director: Integrated Environmental Authorizations must be signed under Acting Chief Director: Integrated Environmental Authorizations during the above-mentioned period.

Your appointment in the above acting position remains subject to the provisions of the Public Service Act, 1994 (Proclamation No. 103 of 1994), as amended, the Government Employees Pension Fund Act, 1996 (Proclamation No. 21 of 1996), the regulations promulgated under these Acts and relevant circulars.

In the execution of your duties and the exercising of the powers delegated to you, you will furthermore be subjected to the provisions of the Public Finance Management Act, compliance with the Promotion of Access to Information Act, Promotion of Administrative Justice Act, the Minimum Information Security Standard, Departmental Policies and other applicable legislations with the Republic of South Africa. You are therefore advised to make yourself familiar with the provisions of these legislations and policies and the amendments thereof. (Copies of Departmental policies can be obtained from the Human Resource Office).

Please accept my heartfelt gratitude for all your assistance on behalf of the department.

Yours sincerely

Ms. Devinagie Bendeman  
Deputy Director-General: RCSM (Regulatory Compliance and  
Sector Monitoring)

Date 20 April 2022

#### ACKNOWLEDGEMENT

I ACCEPT / ~~DO NOT ACCEPT~~  
appointment as Acting Chief  
Director: Integrated Environmental  
Authorizations

Signed:

Date: 20/04/2022



## forestry, fisheries & the environment

Department:  
Forestry, Fisheries and the Environment  
REPUBLIC OF SOUTH AFRICA

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

**DFFE Reference:** 14/12/16/3/3/2/2120/AM1

**Enquiries:** Mr Herman Alberts

**Telephone:** (012) 399 9371 **E-mail:** HAlberts@dfre.gov.za

Mr Davin Chown  
Genesis Enertrag Koup 1 Wind Farm (Pty) Ltd  
PO Box 363  
Newlands  
**CAPE TOWN**  
7725

**Telephone Number:** (083) 460 3898  
**Email Address:** davin@genesis-eco.com

### PER EMAIL

Dear Mr Chown

### **CORRECTION IN TERMS OF REGULATION 27(4) TO THE ENVIRONMENTAL AUTHORISATION ISSUED ON 12 SEPTEMBER 2022 FOR THE KOUPE 1 WIND ENERGY FACILITY (WEF) AND ITS ASSOCIATED INFRASTRUCTURE NEAR BEAUFORT WEST IN THE WESTERN CAPE PROVINCE**

The Environmental Authorisation for the above application issued by this Department on 12 September 2022 and your letter dated 06 October 2022 and received by this Department on 06 October 2022, refer.

In terms of Regulation 27(4) of the Environmental Impact Assessment (EIA) Regulations, 2014, as amended this Department has decided to amend the abovementioned decision as follows:

#### **Correction 1: Correction to the listed activities and the activity description:**

The table of the activity number and activity description on page 06 of the EA is amended:

#### **From:**

##### **Listing Notice 1, Item 28**

*(i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more; where such expansion occurs—*

*(a) within a watercourse; or*

*(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;"*

*Internal roads are required within the application site in order to provide access to each wind turbine, the on-site and/or collector substation and the BESS, as well as to facilitate access throughout the WEF. Existing site roads will be used wherever possible, although internal roads will be upgraded where necessary. The Surface Water Impact Assessment revealed that there are surface water features / watercourses located within the application site.*

	<p>Although the layout of the proposed development has been designed to avoid the surface water features / watercourses identified within the application site as far as possible, some of the internal roads to be upgraded will need to traverse some of the surface water features / watercourses identified within the application site and construction will occur within some of the surface water features / watercourses identified within the application site and/or be within 32m of some of the surface water features / watercourses identified within the application site.</p> <p>As such, the proposed development will entail the expansion (upgrading) of roads and other infrastructure by 100m<sup>2</sup> or more within some of the surface water features / watercourses identified within the application site or within 32m from the edge of a surface water features / watercourses identified within the application site.</p>
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**To:**

<p><u>Listing Notice 1, Item 48</u>          "The expansion of-          (i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more; where such expansion occurs—          (a) within a watercourse; or          (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;"</p>	<p>Internal roads are required within the application site in order to provide access to each wind turbine, the on-site and/or collector substation and the BESS, as well as to facilitate access throughout the WEF. Existing site roads will be used wherever possible, although internal roads will be upgraded where necessary. The Surface Water Impact Assessment revealed that there are surface water features / watercourses located within the application site.</p> <p>Although the layout of the proposed development has been designed to avoid the surface water features / watercourses identified within the application site as far as possible, some of the internal roads to be upgraded will need to traverse some of the surface water features / watercourses identified within the application site and construction will occur within some of the surface water features / watercourses identified within the application site and/or be within 32m of some of the surface water features / watercourses identified within the application site.</p> <p>As such, the proposed development will entail the expansion (upgrading) of roads and other</p>
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	<p>infrastructure by 100m<sup>2</sup> or more within some of the surface water features / watercourses identified within the application site or within 32m from the edge of a surface water features / watercourses identified within the application site.</p>
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**Correction 2: Correction to the SG 21 codes:**

The table of the SG 21 Codes on page 10 of the EA is amended:

**From:**

C	0	0	9	0	0	0	0	0	0	0	0	0	3	7	4	0	0	0	1	1
C	0	0	9	0	0	0	0	0	0	0	0	0	3	7	4	0	0	0	1	5
C	0	6	1	0	0	0	0	0	0	0	0	0	2	3	1	0	0	0	0	0
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	0	5
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	1	8
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	1	0

**To:**

C	0	0	9	0	0	0	0	0	0	0	0	0	3	7	4	0	0	0	1	1
C	0	0	9	0	0	0	0	0	0	0	0	0	3	7	4	0	0	0	1	5
C	0	6	1	0	0	0	0	0	0	0	0	0	2	3	1	0	0	0	0	0
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	0	5
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	1	1
C	0	0	9	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	1	0

Please note that this letter must be read in conjunction with the EA dated 12 September 2022.

Yours faithfully



**Ms Milicent Solomons**  
**Acting Chief Director: Integrated Environmental Authorisations**  
**Department of Forestry, Fisheries and the Environment**  
 Date: 26/10/2022.

cc:	Zaahir Toefy	WC DEADP	Email: Zaahir.toefy@westerncape.gov.za
	Michelle Guy	SIVEST SA (Pty) Ltd	Email: michelle@siwest.co.za
	Kosie Haarhoff	Beaufort West Local Municipality	Email: kosieh@beaufortwestmun.co.za
	Anneleen Vorster	Prince Albert Local Municipality	Email: annaleen@pamun.gov.za



**forestry, fisheries  
& the environment**

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Tel(+ 27 12) 399 9000

Enquiries: Devinagie Bendeman Telephone: 012 399 9337 E-mail: [vbendeman@ddffe.gov.za](mailto:vbendeman@ddffe.gov.za)

Ms. Milicent Solomons  
Director: Prioritized Infrastructure Projects

Dear Mrs Solomons

**APPOINTMENT AS ACTING CHIEF DIRECTOR: INTEGRATED ENVIRONMENTAL AUTHORIZATIONS  
FOR THE PERIOD OF 25 APRIL 2022 UNTIL 31 OCTOBER 2022**

I hereby inform you that I have decided to appoint you as the Acting Chief Director: Integrated Environmental Authorizations for the period of 25 April to 31 October 2022 whilst Mr Sabelo Malaza is fulfilling his temporary reassignment function at the Forestry Branch.

All the correspondence and other documents that are usually signed by the Chief Director: Integrated Environmental Authorizations must be signed under Acting Chief Director: Integrated Environmental Authorizations during the above-mentioned period.

Your appointment in the above acting position remains subject to the provisions of the Public Service Act, 1994 (Proclamation No. 103 of 1994), as amended, the Government Employees Pension Fund Act, 1996 (Proclamation No. 21 of 1996), the regulations promulgated under these Acts and relevant circulars.

In the execution of your duties and the exercising of the powers delegated to you, you will furthermore be subjected to the provisions of the Public Finance Management Act, compliance with the Promotion of Access to Information Act, Promotion of Administrative Justice Act, the Minimum Information Security Standard, Departmental Policies and other applicable legislations with the Republic of South Africa. You are therefore advised to make yourself familiar with the provisions of these legislations and policies and the amendments thereof. (Copies of Departmental policies can be obtained from the Human Resource Office).

Please accept my heartfelt gratitude for all your assistance on behalf of the department.

Yours sincerely

Ms Devinagie Bendeman  
Deputy Director-General: RCSM (Regulatory Compliance and  
Sector Monitoring)

Date 20 April 2022

**ACKNOWLEDGEMENT**

I ACCEPT / ~~DO NOT ACCEPT~~  
appointment as Acting Chief  
Director: Integrated Environmental  
Authorizations

Signed:

Date:

20/04/2022



# forestry, fisheries & the environment

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**DFFE Reference:** 14/12/16/3/3/2/2120/AM3

**Enquiries:** Nyikó Nkosi

**Telephone:** (012) 399 9392 **E-mail:** [nnkosi@dffe.gov.za](mailto:nnkosi@dffe.gov.za)

Mr Davin Chown  
Genesis Koup 1 Wind Farm (Pty) Ltd  
PO Box 363  
**CAPE TOWN**  
7725

Telephone Number: (021) 657 4045  
Email Address: [davin@genesis-eco.com](mailto:davin@genesis-eco.com)

## PER EMAIL / MAIL

Dear Mr Chown

### **CORRECTION TO THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON THE 17 MAY 2023, FOR THE ESTABLISHMENT OF THE KOUP 1 WIND ENERGY FACILITY (WEF) AND ITS ASSOCIATED INFRASTRUCTURE, NEAR BEAUFORT WEST IN THE WESTERN CAPE PROVINCE**

The amendment to the Environmental Authorisation (EA) issued for the above application by this Department on 17 May 2023, your letter dated 30 June 2023 and received by this Department on 30 June 2023, refer.

In terms of Regulation 27 (4) of the Environmental Impact Assessment (EIA) Regulations, 2014, as amended this Department has decided to amend the abovementioned decision to correct a typographical error to the description of the project in the title as follows:

**From:**

*"AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON THE 12 SEPTEMBER 2022 AS AMENDED, FOR THE DEVELOPMENT OF THE ON-SITE SWITCHING SUBSTATION/ COLLECTOR SUBSTATION AND ASSOCIATED 132KV POWERLINE FOR THE KOUP 1 WIND ENERGY FACILITY (WEF), NEAR BEAUFORT WEST IN THE WESTERN CAPE PROVINCE"*

**To:**

*"AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON THE 12 SEPTEMBER 2022 AS AMENDED, FOR THE ESTABLISHMENT OF THE KOUP 1 WIND ENERGY FACILITY (WEF) AND ITS ASSOCIATED INFRASTRUCTURE, NEAR BEAUFORT WEST IN THE WESTERN CAPE PROVINCE"*

M. J

Please note that this letter must be read in conjunction with the Environmental Authorisation dated 12 September 2022, as amended.

Yours faithfully



**Mr Sabelo Malaza**  
**Chief Director: Integrated Environmental Authorisations**  
**Department of Forestry, Fisheries and the Environment**  
**Date: 20/07/2023**

cc:	Ms Ashlin Bodasing	Arcus Consultancy Services South Africa (Pty) Ltd	E-mail: <a href="mailto:Bodasing@arcusconsulting.co.za">Bodasing@arcusconsulting.co.za</a>
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