



forestry, fisheries & the environment

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

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DFFE Reference: 14/12/16/3/3/2/1074/AM1

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PER EMAIL / MAIL

Dear Sir/Madam

AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 30 APRIL 2019 FOR THE 140 MW JUNO WIND ENERGY FACILITY, WESTERN CAPE PROVINCE.

The Environmental Authorisation (EA) issued for the abovementioned application by this Department on 30 April 2019, your application for amendment of the EA received by the Department on 10 June 2021 and the acknowledgement letter dated 21 June 2021, refer.

Based on a review of the reason for requesting an amendment to the above EA, this Department, in terms of Chapter 5 of the Environmental Impact Assessment Regulations, 2014 as amended, has decided to amend the EA dated 30 April 2019 as amended, as follows:

Amendment 1: Reduction in the number of Wind Turbine Generators (WTGs):

From: 49 turbines

To: 33 turbines

Amendment 2: Addition of BESS and its Geographic Co-ordinates:

Battery Storage System centre co-ordinates (new)	Proposed Latitude	Proposed Longitude
Battery Storage System	31°42'30"S	18°19'30"E

Amendment 3: Amended Turbine Layout Design:

Authorised (49) Turbine Layout and Proposed (33) Turbine Layout				
WTGs	Authorised Latitude	Authorised Longitude	Amended Latitude	Amended Longitude
1	31° 43' 37.3569" S	18° 15' 46.1978" E	31° 43' 41.14" S	18° 15' 48.76" E
2	31° 43' 51.2290" S	18° 15' 53.3880" E	31° 44' 03.10" S	18° 16' 01.43" E
3	31° 44' 05.0009" S	18° 16' 01.2613" E	31° 44' 22.99" S	18° 16' 15.16" E
4	31° 44' 18.3896" S	18° 16' 10.1231" E	31° 44' 39.38" S	18° 16' 30.86" E
5	31° 44' 30.2516" S	18° 16' 21.3993" E	31° 44' 49.47" S	18° 16' 50.62" E
6	31° 44' 41.6176" S	18° 16' 32.9865" E	31° 44' 51.85" S	18° 17' 13.72" E
7	31° 44' 49.2273" S	18° 16' 48.1805" E	31° 44' 53.64" S	18° 17' 37.49" E
8	31° 44' 51.1767" S	18° 17' 05.6687" E	31° 44' 55.72" S	18° 18' 00.71" E
9	31° 44' 52.6004" S	18° 17' 23.4502" E	31° 45' 07.30" S	18° 18' 19.23" E
10	31° 44' 53.8740" S	18° 17' 41.1091" E	31° 45' 02.96" S	18° 18' 45.22" E
11	31° 44' 56.5029" S	18° 17' 58.5906" E	31° 43' 18.18" S	18° 16' 32.03" E
12	31° 45' 08.3992" S	18° 18' 20.3196" E	31° 43' 37.88" S	18° 16' 46.26" E
13	31° 45' 17.9779" S	18° 18' 39.5218" E	31° 43' 54.04" S	18° 17' 01.88" E
14	31° 43' 16.9379" S	18° 16' 24.3763" E	31° 44' 05.74" S	18° 17' 45.38" E
15	31° 43' 30.3436" S	18° 16' 32.5475" E	31° 44' 05.59" S	18° 18' 09.88" E
16	31° 43' 43.7742" S	18° 16' 41.0696" E	31° 44' 17.47" S	18° 18' 53.52" E
17	31° 43' 56.4381" S	18° 16' 51.0065" E	31° 44' 22.89" S	18° 19' 15.81" E
18	31° 44' 04.7696" S	18° 17' 05.8471" E	31° 44' 39.29" S	18° 19' 32.25" E
19	31° 44' 10.7750" S	18° 17' 21.8946" E	31° 42' 51.35" S	18° 17' 17.10" E
20	31° 44' 15.1339" S	18° 17' 38.8676" E	31° 43' 09.14" S	18° 17' 32.72" E
21	31° 44' 18.0995" S	18° 17' 56.1701" E	31° 43' 13.72" S	18° 17' 55.98" E
22	31° 44' 20.9011" S	18° 18' 13.8040" E	31° 43' 18.44" S	18° 18' 46.35" E
23	31° 44' 25.6585" S	18° 18' 30.6433" E	31° 43' 22.24" S	18° 19' 11.11" E
24	31° 44' 31.6957" S	18° 18' 46.9526" E	31° 43' 34.94" S	18° 19' 30.63" E
25	31° 44' 39.5513" S	18° 19' 03.9503" E	31° 43' 48.15" S	18° 19' 52.29" E
26	31° 44' 52.2625" S	18° 19' 17.3289" E	31° 44' 15.40" S	18° 20' 09.50" E
27	31° 42' 54.8947" S	18° 17' 04.2420" E	31° 42' 24.31" S	18° 18' 00.92" E

28	31° 43' 08.3070" S	18° 17' 12.6975" E	31° 42' 30.77" S	18° 18' 26.79" E
29	31° 43' 20.4110" S	18° 17' 24.3851" E	31° 42' 30.26" S	18° 18' 53.19" E
30	31° 43' 29.3024" S	18° 17' 38.9088" E	31° 42' 26.45" S	18° 19' 20.46" E
31	31° 43' 35.8427" S	18° 17' 54.7968" E	31° 42' 40.85" S	18° 19' 44.61" E
32	31° 43' 40.8905" S	18° 18' 11.6214" E	31° 43' 01.14" S	18° 20' 03.40" E
33	31° 43' 45.3099" S	18° 18' 28.7078" E	31° 43' 15.00" S	18° 20' 24.01" E
34	31° 43' 49.5145" S	18° 18' 45.7689" E	WTG removed	
35	31° 43' 54.2917" S	18° 19' 02.5855" E	WTG removed	
36	31° 43' 58.5377" S	18° 19' 19.7352" E	WTG removed	
37	31° 44' 03.1355" S	18° 19' 36.8325" E	WTG removed	
38	31° 44' 15.0888" S	18° 19' 48.3541" E	WTG removed	
39	31° 44' 28.3291" S	18° 19' 57.5439" E	WTG removed	
40	31° 42' 25.1373" S	18° 17' 53.5173" E	WTG removed	
41	31° 42' 37.6984" S	18° 18' 04.5372" E	WTG removed	
41	31° 42' 46.8830" S	18° 18' 19.3115" E	WTG removed	
42	31° 42' 56.0244" S	18° 18' 34.4735" E	WTG removed	
43	31° 43' 04.2359" S	18° 18' 50.3202" E	WTG removed	
44	31° 43' 11.9568" S	18° 19' 06.5850" E	WTG removed	
45	31° 43' 19.7919" S	18° 19' 25.2122" E	WTG removed	
46	31° 42' 21.8881" S	18° 19' 19.6053" E	WTG removed	
47	31° 42' 34.7312" S	18° 19' 40.6540" E	WTG removed	
48	31° 42' 50.5927" S	18° 19' 55.5037" E	WTG removed	
49	31° 43' 37.3569" S	18° 15' 46.1978" E	WTG removed	

Amendment 4: Authorised and amended Specifications:

Table 2.4 below shows the change in technical details from authorised (old) specifications alongside proposed (new) specifications to be authorised. Table 2.5 is provided to show any changes required to the conditions contained in the EA (DFFE Ref.: 14/12/16/3/3/2/1074) when providing the decision on this amendment application.

Table 2.4: Authorised and Proposed Specifications

Details	Authorised (old) Specifications	Amended (new) Specifications
Holder of the Authorisation	AMDA Jullet (Pty) Ltd	AMDA <u>Jullett</u> (Pty) Ltd

DFFE Reference: 14/12/16/3/3/2/1074/AM1

AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 30 APRIL 2019 FOR THE 140 MW JUNO WIND ENERGY FACILITY, WESTERN CAPE PROVINCE.

Affected Property / Farm Name	The Remaining Extent of Farm De Boom No. 273	Remains unchanged.
21 digit Surveyor General codes of affected farm portion	C07800000000027300000	Remains unchanged.
Number of Turbines	49 turbines	up to 33 turbines
Turbine Capacity	2.4 – 3.4 MW	Remove specific individual turbine capacity.
Facility Capacity	140 MW	Remains unchanged.
Hub Height	up to 114 m	up to 150 m
Rotor Diameter	up to 132 m	up to 200 m
Blade Length	64.5 m	up to 100 m
Temporary turbine construction laydown and storage area	Unconfirmed.	Approximately 4 500m ² per turbine
Area occupied by on- site substation	New IPP substation: 200 x 200 metres substation, transformers and ops building (two alternative locations) Maximum 4 hectares.	New IPP substation: 200 x 200 metres substation, transformers and ops building (two alternative locations) Maximum 4 hectares and includes O&M buildings (to be brick and mortar buildings) as well as the proposed BESS.
Height of substation	2.4 m	Remains unchanged.
Capacity of on-site substation	33/132 kV	Remains unchanged.
Area occupied by construction lay down areas (including construction camp)	4 ha	Remains unchanged.
Internal access roads	5.5 m including road reserve and approximately 50 km	Internal Roads: increase to 7 m in width including road reserve and approximately 36.5 km in length.
Concrete batching plant	1 ha	Remains unchanged.
O&M Building	2 ha	Up to 2 ha
General temporary Hardstand Area (boom erection, storage, and assembly area)	170 x 70 m	Remains unchanged.

Turbines	0.77 ha each maximum 49 turbines totals 37.73 ha	37.73 ha total ha for maximum 33 turbines
Site access	The proposed main access road is located on R362	Remains unchanged.
Fencing	Up to 2.4 m wired mesh / chain link fence not electrified	Remains unchanged.
Main Site Access Road	Unconfirmed.	Main site access road, is between 8 - 10 m wide (excluding shoulder) and approximately 1.7 km in length.
Internal cables capacity	33 kV capacity, underground where feasible.	Up to 33 kV, underground where feasible.
BESS Specification	-	Preferred technology is Lithium-Ion Battery (with Redox Flow and Lead Acid as alternatives). Underground cabling, approximately 200 m in length, is proposed to connect the WEF to the BESS. If underground cabling is not feasible the alternative will be overhead cabling.

Table 2.5 Conditions of Environmental Authorisation to be Retained or Changed

Condition in EA	Amend, Retained or Removed	Amended Condition
1.	Slight change.	The proposed 140 MW Juno 1 Wind Energy Facility within the Matzikima Local Municipality in the Western Cape Province as described above is hereby approved.
2. – 11.	No changes. To be retained as is in new EA.	
12. – 23.	Amend to approve the EMPr submitted	The Environmental Management Programme (EMPr) submitted in Appendix B of the EA amendment Application dated September 2021, is approved, and must be implemented and adhered to.
24. – 33.	No changes. To be retained.	
34.	Slight change.	Up to 33 turbines are approved and the final placement of turbines must follow a micro siting procedure involving a walk-through and identification of any sensitive areas by the ecological, avifaunal, bat and heritage specialists.
35. - 36.	No changes. To be retained.	
37.	Slight change.	No turbines must be constructed in "no-go" areas, and also associated infrastructure (roads, power lines and substations) must be avoided where possible in these areas. <u>Unless otherwise advised by the specialist recommendations.</u>

38. – 46.	No changes. To be retained.	
47.	Slight change.	Any spillage of any hazardous materials including diesel that may occur during construction and operation must be reported immediately to the Department of Water and Sanitation; the DFFE and DEA&DP Directorate: Pollution and Chemicals Management, in terms of section 30 of the National Environmental Management Act 1998 (Act No. 107 of 1998) ("NEMA").
48. – 58.	No changes. To be retained.	
59.	Slight change.	Should any archaeological sites, artefacts, paleontological fossils or graves be exposed during construction, work in the immediate vicinity of the find must be stopped, Heritage Western Cape must be informed, and the services of an accredited heritage professional obtained for an assessment of the heritage resources to be made.
60 – 67.	No changes. To be retained.	
68.	Slight changes.	The recommendations of the EAP in the Final EIA dated January 2019 and the specialist studies attached must be adhered to, this includes the recommendations of the EAP in the Amendment Report dated September 2021 and the specialist studies attached. In the event of any conflicting mitigation measures and conditions of the Environmental Authorisation, the specific condition of this Environmental Authorisation will take preference.
69 – 70.	No changes. To be retained.	

Reasons for the amendments applied for:

The proposed amendments are for generation and storage of the renewable energy that will be fed into the national grid. The authorised turbine specifications of up to 114 metres hub height and up to 132 metres rotor diameter is no longer the preferred wind turbine technology. More efficient wind turbines have become available subsequent to Environmental Authorisation being granted (DFFE Ref.: 14/12/16/3/3/2/1074), on 30 April 2019. Due to the ever-changing technology efficiencies, where the turbine dimensions are changing, the amendment application is to ensure that the authorised facility remains competitive within the sector, as well as to further 'future proof' the project amidst rapid technology developments.

The proposed amendments are also required to facilitate the most efficient turbine model by increasing the hub height to up to 150 metres and the rotor diameter to up to 200 metres. To counter the effects of the increased size of the turbines, AMDA proposed to reduce the proposed wind turbines from 49 to 36 turbines. Following specialist assessments, the number of turbines were further reduced from 36 to 33 turbines based on the avifauna specialist recommendations. With the amendments to the turbine specifications, AMDA is able to avoid the environmental constraints and sensitive features identified through specialist input during the EIA process (Arcus, January 2019) and the current amendment application process.

The on-site substation position remains unchanged, and will include a BESS component which is proposed to be built within the authorised substation footprint. The BESS will provide uninterrupted electricity supply to the national grid when there are constraints on electricity generation by the WEF, and is able to store electricity generated by the WEF during peak electricity generation periods. In addition, the electricity stored by the BESS will be able to supply electricity during periods of peak demands.

This proposed amendment letter must be read in conjunction with the EA dated 30 April 2019 as amended.

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 stipulate 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 abuse or compromise your personal information in any way.

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 14 (fourteen) days of the date of the EA, of the Department's as well as the provisions regarding the submission of appeals that are contained in the Regulations.

Your attention is drawn to Chapter 2 of 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 prescribes 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 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: appeals@environment.gov.za;

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

By post: Private Bag X447,
Pretoria,
0001;

Please note that in terms of Section 43(7) of the National Environmental Management Act, Act No. 107 of 1998, as amended, the lodging of an appeal 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 is finalised.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at https://www.environment.gov.za/documents/forms#equal_authorisations or request a copy of the documents at appeals@environment.gov.za.

Yours faithfully



Mr Vusi Skosana

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

Date: 06 January 2022

cc:	Maria Magaretha Wiese / Riaan Wiese	Landowner	E-mail: marlette@schon.co.za
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