

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

DFFE Reference: 14/12/16/3/3/2/2310
Enquiries: Ms Azrah Essop
Telephone: (012) 399 8529 E-mail: AEssop@dffe.gov.za

Mr Anthony De Graaf Carmel Solar 1 (Pty) Ltd 101, Block A West Quay Building 7 West Quay Road CAPE TOWN 8000

**Tel number:** 021 418 2596

Email Address: anthony@atlanticep.com

amy@atlanticep.com

PER E-MAIL

Dear Mr De Graaf

ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: THE DEVELOPMENT OF AN UP TO 150MW SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY (CARMEL SOLAR 1) AND ASSOCIATED GRID INFRASTRUCTURE, NEAR CARLETONVILLE, WEST RAND DISTRICT MUNICIPALITY WITHIN THE GAUTENG 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 14 (fourteen) days of the date of the decision as well as the provisions regarding the submission of appeals that are contained in the Regulations.

In terms of the Promotion of Administrative Justice Act, 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, 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 abuse or compromise your personal information in any way.

Your attention is drawn to Chapter 2 of National Environmental Management Act, 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.

appeals@dffe.gov.za By email:

**Environment House** By hand:

473 Steve Biko Road

Arcadia **PRETORIA** 0083

By post: Private Bag X447

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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.dffe.gov.za/documents/forms#legal\_authorisations or request a copy of the documents at appeals@dffe.gov.za.

Yours faithfully

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations Department of Forestry, Fisheries & the Environment

Date:

	Cc:	Vivienne Vorster	Environamics CC	Email: vivienne@solis-environmental.co.za	ļ
		Malesela Sehona	Gauteng Department of Agriculture and	Email: eiaenquiries@gauteng.gov.za	l
ľ			Rural Development	/environmentcomments@gauteng.gov.za	ļ
ì		Itani Mashamba	Merafong Local Municipality	Email: imashamaba@merafong.gov.za	ļ



# **Environmental Authorisation**

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

# THE DEVELOPMENT OF AN UP TO 150MW SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY (CARMEL SOLAR 1) AND ASSOCIATED GRID INFRASTRUCTURE, NEAR CARLETONVILLE, WEST RAND DISTRICT MUNICIPALITY WITHIN THE GAUTENG PROVINCE.

#### WEST RAND DISTRICT MUNICIPALITY

Authorisation register number:	14/12/16/3/3/2/2310
Last amended:	First issue
Holder of authorisation:	Carmel Solar 1 (Pty) Ltd
Location of activity:	Portions 1, 11, 23 and 28 of the Farm Doornfontein
	No. 118.; Merafong Local Municipality; West Rand
	District Municipality; Gauteng Province

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 NEMA 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 NEMA EIA Regulations, 2014, as amended, the Department hereby authorises –

#### **CARMEL SOLAR 1 (PTY) LTD**

(hereafter referred to as the holder of the authorisation)

with the following contact details -

Mr Anthony De Graaf

Carmel Solar 1 (Pty) Ltd

101, Block A

West Quay Building 7 West Quay Road

**CAPE TOWN** 

8000

Tel number:

021 418 2596

**Email Address:** 

anthony@atlanticep.com/ amy@atlanticep.com

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

as described in the final EIAR dated 26 July 2023:

Activity number	Activity description
Listing Notice 1, Item 11(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 kilovolts.	The project will also comprise of a 132kV facility substation; a 132kV Eskom switching station and an up to 132kV overhead powerline between the Eskom Switching Station and the Carmel Main Transmission Substation.
Listing Notice 1, Item 12 (ii)(a)(c):  The development of,  (ii) infrastructure or structures with a physical footprint of 100 square metres or more;  (a) within a watercourse or  (c) within 32 meters of a watercourse measured from the edge of a watercourse.	Crossing of watercourses and wetlands by infrastructure associated with the Project (including the main access road), as well as encroachment of infrastructure within 32m of watercourses identified by the aquatic specialist on site. Channelled Valley Bottom wetlands are located along the eastern boundary of the site. A 100m buffer will be maintained between the PV facility and the channelled valley bottom wetlands; however, the overhead powerline will span over the channelled valley bottom wetlands with pylon location within riparian areas of the watercourse. The project further requires an informal access road (e.g., jeep track) that will span the length of the proposed powerline (i.e., ~2.6km in length)
Listing Notice 1, Item 19:  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.	The project area comprises of existing roads which traverse watercourses. The existing access roads that traverse watercourses will be expanded to suit the project needs and will require removal of more than 10 cubic metres of soil from a watercourse

identified by the aquatic specialist. Pylons will also be

Activity number	Activity description
	placed within identified riparian areas. The project
	further requires an informal access road (e.g., jeep
	track) that will span the length of the proposed
	powerline (i.e., ~2.6km in length).
Listing Notice 1, Item 24(ii)	
The development of a road,	The proposed access roads to Carmel Solar 1 will be
(ii) with reserve wider than 13,5 meters, or where no	up to 8m wide, but with the inclusion of side drains
reserve exists where the road is wider than 8 meters.	and gavel embankments, will exceed the threshold of
	this activity. The project further requires an informal
	access road (e.g., jeep track) that will span the length
	of the proposed powerline (i.e., ~2.6km in length).
Listing Notice 1, Item 27:	
The clearance of an area of 1 hectare or more, but	A total of 12ha of indigenous vegetation will be
less than 20 hectares of indigenous vegetation.	removed for the following:
	Auxiliary buildings – Up to 1ha
	BESS Up to 5ha
	On-site facility substation – Up to 1ha
	<ul> <li>Laydown area – Up to5 ha</li> </ul>
Listing Notice 1, Item 28:	
Residential, mixed, retail, commercial, industrial, or	The total area to be developed for the PV facility and
institutional developments where such land was used	associated infrastructure is greater than 1ha and
for agriculture or afforestation on or after 1998 and	occurs outside an urban area in an area currently
where such development,	zoned for agriculture. The property will be re-zoned to
(ii) will occur outside an urban area, where the total	"special" use.
land to be developed is bigger than 1 hectare.	The development footprint of the solar PV facility is
	up to 216 ha.
Listing Notice 1, Item 56:	
The widening of a road by more than 6 metres, or the	The existing roads will require widening of up to 6m
lengthening of a road by more than 1 kilometre,	and/or lengthening by more than 1km, to
(ii) where no reserve exists, where the existing road	accommodate the movement of heavy vehicles and
is wider than 8 metres.	cable trenching activities. The project further requires
	an informal access road (e.g., jeep track) that will

Activity number	Activity description
	span the length of the proposed powerline (i.e.,
	~2.6km in length).
Listing Notice 2, Item 1:	
The development of facilities or infrastructure for the	The proposed photovoltaic solar energy facility will
generation of electricity from a renewable resource	generate up to 150 megawatts electricity through the
where the electricity output is 20 megawatts or more.	use of a renewable resource.
Listing Notice 2, Item 15:	
The clearance of an area of 20 hectares or more of	The cumulative area of indigenous vegetation to be
indigenous vegetation.	cleared for the entire Project (excluding linear
	components) will exceed 20 hectares. The
	development area (excluding linear activities) is
	approximately 216ha.
Listing Notice 3, Item 4(c)(ii)(iv):	
The development of a road wider than 4 metres with	The internal and perimeter access roads with a width
a reserve less than 13,5 metres, within	of between 6 and 10 meters will be constructed. The
(c) the Gauteng province,	project further requires an informal access road (e.g.,
(ii) National Protected Area Expansion Strategy	jeep track) that will span the length of the proposed
Focus Areas	powerline (i.e., ~2.6km in length). According to the
(iv) Sites identified as Critical Biodiversity Areas	Terrestrial Biodiversity Impact Assessment, parts of
(CBAs) or Ecological Support Areas (ESAs) in the	the site are within a Critical Biodiversity Area and
Gauteng Conservation Plan or in bioregional plans.	Ecological Support Area. Furthermore, a small
	portion of the site has been identified as a NPAES
	Priority Focus Areas (FA) for inclusion in future
	protected areas.
Listing Notice 3, Item 10(c)(ii)(iv):	
The development and related operation of facilities or	The proposed development will need to develop
infrastructure for the storage, or storage and handling	infrastructure for the storage and handling of
of a dangerous good, where such storage occurs in	dangerous goods (diesel and/or oils) in containers
containers with a combined capacity of 30 but not	with a capacity exceeding 30 but not exceeding 80
exceeding 80 cubic metres,	cubic metres. According to the Terrestrial Biodiversity
(c) the Gauteng province-	Impact Assessment, parts of the site are within a
(ii) National Protected Area Expansion Strategy	Critical Biodiversity Area and Ecological Support
Focus Area	Area. Furthermore, a small portion of the site has

Activity number	Activity description
(iv) Sites identified as Critical Biodiversity Areas	been identified as a NPAES Priority Focus Areas (FA)
(CBAs) or Ecological Support Areas (ESAs) in the	for inclusion in future protected areas.
Gauteng Conservation Plan or in bioregional plans.	
Listing Notice 3, Item 12(c)(ii):	
The clearance of an area of 300 square metres or	The proposed development is located in the Gauteng
more of indigenous vegetation,	province and portions of the site has not been lawfully
(c) in the Gauteng Province,	disturbed during the preceding ten years and
(ii) within Critical Biodiversity Areas or Ecological	therefore indigenous vegetation is present on the site.
Support Areas identified in the Gauteng Conservation	According to the Terrestrial Biodiversity Impact
Plan or bioregional plans.	Assessment, parts of the site are within a Critical
	Biodiversity Area and Ecological Support Area.
Listing Notice 3, Item 14(ii)(a)(c)(c)(ii)(iv):	
The development of,	The proposed overhead powerline will span over the
(ii) infrastructure or structures with a physical footprint	channelled valley bottom wetland identified along the
of 10 square metres or more, where such	eastern boundary of the project area with pylon
development occurs	location within the riparian area of a watercourse. The
(c) within 32 metres of a watercourse, measured from	project further requires an informal access road (e.g.,
the edge of a watercourse	jeep track) that will span the length of the proposed
(c) within the Gauteng Province,	powerline (i.e., ~2.6km in length). According to the
(ii) National Protected Area Expansion Strategy	Terrestrial Biodiversity Impact Assessment, parts of
Focus Area	the site are within a Critical Biodiversity Area and
(iv) sites identified as Critical Biodiversity Areas	Ecological Support Area. Furthermore, a small
(CBAs) or Ecological Support Areas (ESAs) in the	portion of the site has been identified as a NPAES
Gauteng Conservation Plan or in bioregional plans.	Priority Focus Areas (FA) for inclusion in future
	protected areas.
Listing Notice 3, Item 18(c)(ii)(iv):	
The widening of a road by more than 4 metres, or the	The existing main access road to the site will need to
lengthening of a road by more than 1 kilometre,	be widened by more than 4 metres. The project
(c) in the Gauteng Province within	requires internal and perimeter access roads which
(ii) National Protected Area Expansion Strategy	will be widened by more than 4m. The project further
Focus Area	requires an informal access road (e.g., jeep track)
	that will span the length of the proposed powerline
	(i.e., ~2.6km in length). The project is located within

Activity number	Activity description
(iv) sites identified as Critical Biodiversity Areas	the Gauteng Province and according to the Terrestrial
(CBAs) or Ecological Support Areas (ESAs) in the	Biodiversity Impact Assessment, parts of the site are
Gauteng Conservation Plan or in bioregional plans.	within a Critical Biodiversity Area and Ecological
	Support Area. Furthermore, a small portion of the site
	has been identified as a NPAES Priority Focus Areas
	(FA) for inclusion in future protected areas.

#### The key components/infrastructure will include the following:

- PV modules and mounting structures
- Inverters and transformers
- Battery Energy Storage System (BESS)
- Site and internal access roads (up to 8m wide)
- Operation and Maintenance buildings including a gate house and security building, control centre,
   offices, warehouses and workshops for storage and maintenance.
- Temporary and permanent laydown area
- Facility grid connection infrastructure, including:
  - o 33kV cabling between the project components and the facility substation.
  - A 132kV facility substation
  - o A 132kV Eskom switching station
  - Up to 132kV powerline between the facility substation, Eskom Switching Station, and the Carmel Main Transmission Substation.

as described in the final Environmental Impact Assessment Report (EIAr) dated 26 July 2023:

#### GPS Co-ordinates proposed facility:

Project Boundary	Latitude	Longitude
A	26°26'36.46"S	27°16'34.33"E
В	26°26'38.98"S	27°16'52.74"E
С	26°26'35.26"S	27°16'51.90"E
D	26°26'32.81"S	27°17'3.52"E
Ē	26°25'54.46"S	27°16'53.59"E
F	26°25'35.01"S	27°17'41.66"E

26°26'19.05"S	27°18'46.28"E
26°26'22.58"S	27°18'37.89"E
26°26'7.56"S	27°18'9.00"E
26°26'12.58"S	27°18'3.98"E
26°26'19.40"S	27°18'9.73"E
26°26'24.72"S	27°17'52.39"E
26°26'15.65"S	27°17'52.43"E
26°26'16.68"S	27°17'40.89"E
26°26'41.78"S	27°17'37.11"E
26°26'58.23"S	27°16'43.64"E
	26°26'22.58"S 26°26'7.56"S 26°26'12.58"S 26°26'19.40"S 26°26'24.72"S 26°26'15.65"S 26°26'16.68"S 26°26'41.78"S

# PV array:

Boundary	Latitude	Longitude
A	26°25'45.84"S	27°17'14.09"E
В	26°25'42.10"S	27°17'23.39"E
С	26°25'45.83"S	27°17'24.08"E
D	26°25'45.49"S	27°17'49.36"E
E	26°26'8.78"S	27°18'16.31"E
F	26°26'7.00"S	27°18'8.98"E
G	26°26'12.63"S	27°18'3.74"E
Н	26°26'19.15"S	27°18'9.21"E
	26°26'23.37"S	27°18'2.58"E
J	26°26'24.22"S	27°17'52.67"E
K	26°26'15.26"S	27°17'52.26"E
L	26°26'17.12"S	27°17'40.51"E
M	26°26'41.63"S	27°17'37.17"E
N	26°26'44.82"S	27°17'27.73"E
0	26°26'39.01"S	27°17'24.06"E
P	26°26'9.49"S	27°17'21.96"E
Q	26°26'10.66"S	27°17'8.16"E
R	26°26'16.75"S	27°17'13.02"E
S	26°26'16.84"S	27°17'16.42"E
Т	26°26'32.38"S	27°17'11.99"E

Boundary	Latitude	Longitude	
U	26°26'37.12"S	27°17'15.40"E	
٧	26°26'45.43"S	27°17'3.39"E	
W	26°26'41.05"S	27°16'53.99"E	
X	26°26'48.89"S	27°16'49.43"E	
Υ	26°26'46.62"S	27°16'38.98"E	
Z	26°26'36.56"S	27°16'34.64"E	
AA	26°26'39.59"S	27°16'53.07"E	
BB	26°26'32.46"S	27°17'4.09"E	
CC	26°26'20.28"S	27°17'8.73"E	
DD	26°26'11.94"S	27°17'3.40"E	

# Associated Infrastructure:

BESS		
A	26°25'45.35"S	27°17'23.70"E
В	26°25'41.57"S	27°17′23.67″E
С	26°25'37.39"S	27°17'33.98"E
D	26°25'41.49"S	27°17'36.10"E
E	26°25'45.41"S	27°17'26.80"E
Laydown Area		
D	26°25'41.49"S	27°17'36.10"E
E	26°25'45.41"S	27°17′26.80″E
F	26°25'42.94"S	27°17'36.78"E
G	26°25'40.60"S	27°17'42.44"E
Н	26°25'45.36"S	27°17'49.70"E
Facility Substation	n	
	26°25'37.35"S	27°17'34.27"E
J	26°25'36.00"S	27°17'37.45"E
K	26°25'38.96"S	27°17'38.94"E
L	26°25'40.23"S	27°17'35.68"E
Auxiliary Building	gs	Carlotte Control of the Control of t
M	26°25'40.41"S	27°17'35.86"E
N	26°25'38.71"S	27°17'40.15"E

0	26°25'40.78"S		27°17'41.30"E	
Р	26°25'42.59"S		27°17'36.98"E	
Access Road	4	-		TE.
Start Point	А	26°26'7.70"S	27°18'11.97"E	
Bend Point 1	В	26°26'22.48"S	27°18'37.98"E	
Bend Point 2	С	26°26'18.91"S	27°18'46.64"E	
Bend Point 3	D	26°26'7.23"S	27°18'40.40"E	
End Point	Е	26°26'5.86"S	27°18'48.71"E	
<b>Grid Connection Corr</b>	dor	11- NI X 01 -		- 21
Start Point	F	26°25'38.50"S	27°17'36.69"E	
Middle Point	G	26°25'28.96"S	27°18'3.87"E	
End Point	Н	26°25'24.04"S	27°18'20.93"E	

# Farm portion and SG code

Farm portion	SG code	
Portion 1 of the Farm Doornfontein No. 118	T0IQ0000000011800001	
Portion 11 of the Farm Doornfontein No. 118	T0IQ0000000011800011	
Portion 23 of the Farm Doornfontein No. 118	T0IQ0000000011800023	
Portion 28 of the Farm Doornfontein No. 118	T0IQ0000000011800028	

## Technical details for the proposed facility

Component	Description / dimensions
Height of PV panels	Up to 5.5m
Generation Capacity	150MW
Development Footprint	Up to 216ha
Area occupied by inverter / transformer stations /	BESS: up to 5ha
substations / BESS	Facility substation: up to 1ha
Capacity of on-site substation	132kV
Area occupied by both permanent and construction	Permanent and Temporary Laydown Area: up
laydown areas	to 5ha
	Hard Stand Area:
	o Auxiliary buildings – Up to 1ha
	o BESS – Up to 5ha



Component	Description / dimensions
	o Facility substation – Up to 1ha
	o PV array – Up to 204ha
Area occupied by buildings	A 33kV switch room, a gate house, ablutions,
	workshops, storage and warehousing areas,
	site offices and a control centre: up to 1ha
Battery storage facility	The Battery Storage Facility will occupy an
	area of up to 5 hectares using Solid state
	battery electrolytes. Maximum height of the
	BESS is 8m. Capacity unconfirmed at this
	stage.
Length of internal roads	Approximately 33km
Width of internal roads	Approximately 6 meters
	N.B: Only the main access roads may be
	widened up to 10 meters
Height of fencing	Approximately 3.5 meters
Height of powerline	Up to 32m
Capacity of the power line	132kV
Eskom Switching Station	132kV
Electricity Grid Infrastructure Corridor	The total area assessed for the Electricity
	Grid Infrastructure up to 43ha
Grid connection corridor width	Up to 100m assessment corridor expanding
	up to 530m wide closer to the Carmel MTS
	and existing 132kV conductors.
Grid connection corridor length	Up to 2.6km assessment corridor
Power line servitude width	Up to 36m
Type of pylon to be used	Lattice or monopole

-for the development of up of an up to 150MW solar photovoltaic (PV) energy facility (Carmel solar 1) and associated grid infrastructure, near Carletonville, West Rand District Municipality within the Gauteng province., hereafter referred to as "the property".

## **Conditions of this Environmental Authorisation**

#### Scope of authorisation

- The development of an up to 150MW solar photovoltaic (PV) facility (Carmel Solar 1) and associated grid
  infrastructure, near Carletonville, West Rand District Municipality within the Gauteng province, is hereby
  approved as per the geographic coordinates cited in the tables 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 must 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 the 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 (10) 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.

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#### 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;
  - 11.4. give the reasons of the Competent Authority for the decision.

#### Commencement of the activity

12. The authorised activity must 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. The project layout map attached as Figure I of the final EIAr dated 26 July 2023 is hereby approved.
- 14. The Environmental Management Programme (EMPr) submitted as part of the final ElAr dated 26 July 2023 (Appendix F1 including appendices) is approved and must be implemented and adhered to.
- 15. Part C of the generic Environmental Management Programme (EMPr) for the substation, submitted as part of the final EIAr dated 26 July 2023 (Appendix F2), is approved and must be implemented and adhered to.
- 16. Part C of the generic Environmental Management Programme (EMPr) for the powerline, submitted as part of the final EIAr dated 26 July 2023 (Appendix F3), is approved and must be implemented and adhered to.

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- 17. The EMPrs (for the PV facility and the generic EMPr's for the substation and powerline) must be implemented and strictly enforced during all phases of the project. They shall be seen as dynamic documents and shall be included in all contract documentation for all phases of 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 26 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 before submission of the updated EMPr to the Department for approval.
- 23. In assessing whether to approve 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 the 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 a 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 submission of the environmental audit reports must be as per the frequency indicated in the EMPr, considering 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 an environmental audit report 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.

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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 before 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 before 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**

- 35. Walk down of the approved site prior to construction activities must be undertaken in the relevant season to record all provincially protected species that will be impacted on by the development.
- 36. If any archaeological material or human burials are uncovered during the course of development, then work in the immediate area should be halted. The find would need to be reported to the heritage authorities and may require inspection by an archaeologist. Such heritage is the property of the state and may require excavation and curation in an approved institution.
- 37. All mitigation measures detailed within the final EIA Report, specialist assessments and technical studies must be implemented.
- 38. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, reuse, and disposal where appropriate. Any solid waste must be

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disposed of at a landfill licensed in terms of Section 20 (b) of the National Environment Management Waste Act, 2008 (Act No.59 of 2008).

#### General

- 39. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr must be made available for inspection and copying-
  - 39.1. at the site of the authorised activity;
  - 39.2. to anyone on request; and
  - 39.3. where the holder of the Environmental Authorisation has a website, on such publicly accessible websites.
- 40. 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 the authorisation.

Date of Environmental Authorisation: 18/09/2023

Mr Sabelo Malaz

Chief Director. Integrated Environmental Authorisations

Department of Forestry, Fisheries & the Environment

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## **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 amended application form received on 27 July 2023.
- b) The information contained in the final EIAr dated 26 July 2023.
- c) The comments received from Interested and Affected Parties as included in the final EIAr dated 26 July 2023.
- d) Mitigation measures as proposed in the final ElAr and the EMPr's.
- e) The information contained in the specialist studies contained within the appendices of the final EIAr dated 26 July 2023 and as appears below:

Name	Company	Author and Date
Aquatic Ecological Assessment	EnviroSci (Pty) Ltd	Dr Brian Colloty – 19 May 2023
Terrestrial Biodiversity	David Hoare Consulting	Dr David Hoare –
Assessment, Animal Species	(Pty) Ltd	Terrestrial Biodiversity Assessment – 31
Compliance Statement, and Plant		May 2023
Species Compliance Statement		Animal Species Compliance Statement –
		31 May 2023
		Plant Species Compliance Statement - 31
		May 2023
Avifaunal Scoping Report	Pachnoda Consulting	Lukas Niemand - May 2023
	CC	
Visual Impact Assessment	Donaway Environmental	Johan Botha - December 2022
	Consultants	
Agricultural Compliance Statement	Johann Lanz Soil	Johann Lanz - May 2023
	Scientist	
Heritage Impact Assessment	J van Schalkwyk	J van Schalkwyk - December 2022
Palaeontological Impact	Banzai Environmental	Eliza Butler - 2022
Assessment	(Pty) Ltd	
Social Impact Assessment	Donaway Environmental	Johan Botha - December 2022
	Consultants	

Name	Company	Author and Date	
Traffic Impact Assessment	iWink Consulting (Pty)	May 2023	
	Ltd		
Desktop Geotechnical Assessment	Delta Geotech	January 2023	

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

All information presented to the Department was considered 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 the ElrR recommended mitigation measures.
- b) The need and desirability of the Carmel Solar facility, from an international perspective, can be described through the project's alignment with internationally recognised and adopted agreements, protocols, and conventions. South Africa is a signatory to a number of international treaties and initiatives, including the United Nations Development Programme's (UNDP's) Sustainable Development Goals (SDGs). The SDGs address global socio-economic challenges such as poverty, hunger, health, education, climate change, gender equality, water, sanitation, energy, urbanisation, environment, and social justice. The SDGs consist of 17 global goals set by the United Nations. The 17 SDGs are characterised by 169 targets and 304 indicators. Goal 7 of the SDGs relates to "Affordable and Clean Energy", with the aim of the goal being to ensure access to affordable, reliable, sustainable, and modern energy for all. The following targets and indicators have been set for Goal 7.
- c) The final EIAr dated 26 July 2023 identified all legislation and guidelines that have been considered in the preparation of the EIAr.
- d) The location of the proposed project in relation to the larger cluster.
- e) The methodology used in assessing the potential impacts identified in the final EIAr dated 26 July 2023 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 final EIAr dated 26 July 2023 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 final EIAr dated 26 July 2023 is deemed to be accurate and credible.
- d) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- e) The comments and responses report adequately catered for all comments received and responses were deemed sufficient.
- f) 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**.

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# **Annexure 2: Locality Plan**

