



environment, forestry & fisheries

Department:
Environment, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

File Reference Number:	(For official use only)
NEAS Reference Number:	DEA/EIA/
Date Received:	

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

PROJECT TITLE

THE PROPOSED DEVELOPMENT OF A LIQUIFIED PETROLEUM GAS (LPG)-TO-POWER FACILITY, OVERHEAD ELECTRICITY TRANSMISSION LINE AND INTERCONNECTING PIPELINE INFRASTRUCTURE ACROSS VARIOUS FARM PORTIONS, SALDANHA

Indicate if the **DRAFT** report accompanies the application

Yes

No

PRE-APPLICATION CONSULTATION

Was a pre-application meeting held	Yes	X	No	
Date of the pre-application meeting	5 October 2020			
Reference number of pre-application meeting held	2020-11-0031			
Was minutes compiled and submitted to the Department for approval	Yes	X	No	

A copy of the pre-application meeting minutes must be appended to this application [Refer to Appendix 1](#).

Kindly note the following:

1. This form must always be used for applications that must be subjected to Basic Assessment or Scoping & Environmental Impact Reporting where this Department is the Competent Authority.
2. This application form is current as of **June 2020**. It is the responsibility of the Applicant / Environmental Assessment Practitioner (EAP) to ascertain whether subsequent versions of the form have been published or produced by the Competent Authority. The latest available Departmental templates are available at <https://www.environment.gov.za/documents/forms>.
3. The onus is on the Applicant/EAP to determine all applicable listed activities that would require Environmental Authorisation prior to the commencement of the construction activities. Should any revision of your development comprise any other activities that constitute a listed activity/ies as defined in Listing Notice 1, 2, or 3 of the EIA Regulations, 2014 as amended, it must also form part of the Application for Environmental Authorisation.
4. An application fee is applicable (refer to **Section 2**). Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for in the Fee Regulations is applicable AND such information in the exclusion section of this application form has been confirmed by this Department.
5. A cover letter on your company letterhead indicating the nature of this application must be appended to this form i.e. new application for Environmental Authorisation, updated application for Environmental Authorisation.
6. An electronic copy of the signed application form must be submitted of both the Applicant and EAP.

7. This form must be marked **“for Attention: Chief Director: Integrated Environmental Authorisations”** and submitted to the Department at the format as prescribed in the process to upload documents form.
8. The required information must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing. A legible font type and size must be used when completing the form. The font size should not be smaller than 10pt (e.g. Arial 10).
9. Where applicable black out the boxes that are not applicable in the form.
10. The use of the phrase “not applicable” in the form must be done with circumspection. Where it is used in respect of material information that is required by the Competent Authority for assessing the application, this may result in the rejection of the application as provided for in the Regulations.
11. Unless protected by law, all information contained in and attached to this application, will become public information on receipt by the Competent Authority. Upon request during any stage of the application process, the Applicant / EAP must provide any registered interested and affected party with the information contained in and attached to this application.
12. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report and declaration of interest of the specialist must also be submitted.
13. Please note that this form must be copied to the relevant Provincial Environmental Department(s)
14. An application for Environmental Authorisation lapses if the applicant fails to meet any of the timeframes prescribed in terms of the EIA Regulations, 2014, as amended.
15. An application for environmental authorisation must be accompanied by a report generated by the web based environmental screening tool (in Appendix 11). This has been stipulated as a requirement for the submission of applications for environmental assessment in the Environmental Impact Assessment Regulations. The Screening Tool allows for the generation of a Screening Report referred to in Regulation 16(1)(v) of the Environmental Impact Assessment Regulations 2014, as amended, whereby a Screening Report is required to accompany any application for Environmental Authorisation.

Departmental Details

Online Submission:

EIAapplications@environment.gov.za or <https://sfiler.environment.gov.za:8443/>.

Please read the process for uploading files to determine how files are to be submitted to this Department.

Postal address:

Department of Environment, Forestry and Fisheries
 Attention: Chief Director: Integrated Environmental Authorisations
 Private Bag X447
 Pretoria
 0001

Physical address:

Department of Environment, Forestry and Fisheries
 Attention: Chief Director: Integrated Environmental Authorisations
 Environment House
 473 Steve Biko Road
 Arcadia

Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at:
 Email: EIAAdmin@environment.gov.za

1. COMPETENT AUTHORITY

Identified Competent Authority to consider the application:

Reason(s) in terms of S24C of NEMA:

Department of Environment, Forestry & Fisheries (DEFF)

The proposal forms part of a bid submission for the applicant to be included under the Risk Mitigation IPP Procurement Programme for new generation capacity (as advertised by the DMRE) which forms part of the Integrated Resource Plan 2010-2030. It is understood that such applications are administered by the DEFF given that the activity is related to a "national priority."

2. FEES

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, an exclusion applies. Proof of payment or a motivation for exclusions must be attached as **APPENDIX 2** of this application form.

Proof of payment	X
Exclusion applies	

An applicant is excluded from paying fees if:

- The activity is a community-based project funded by a government grant; or
- The applicant is an organ of state.

TYPE OF EXCLUSION	Tick where applicable. Proper motivation must be attached to the application
The activity is a community-based project funded by a government Grant	
The applicant is an organ of state	

FEE AMOUNT	Fee
Application for an environmental authorisation for which basic assessment is required in terms of the Environmental Impact Assessment Regulations	
Application for an environmental authorisation, for which S&EIR is required in terms of the Environmental Impact Assessment Regulations	R10 000

Department of Environment, Forestry and Fisheries banking details for the payment of application fees:

Payment Enquiries:

Email: eiafee@environment.gov.za

Banking details:

ABSA Bank

Branch code: 632005

Account number: 1044 2400 72

Current account

Reference number: Reference number to be provided in the specific format indicating centre point coordinates of site in decimal degrees to 5 or 6 decimal places: latitude/longitude

e.g. -33.918861/18.423300

Status: Tax exempted

3. GENERAL INFORMATION

Name of the Applicant:	Assegai Power (Pty) Ltd		
RSA Identity/ Passport Number:	REG – 2017/126849/07		
Name of contact person for applicant (if other):	Shiyaam Rossie		
RSA Identity/ Passport Number:	760411 014 3080		
Responsible position, e.g. Director, CEO, etc.:	Director		
Company/ Trading name (if any):	Assegai Power (Pty) Ltd		
Company Registration Number:	2017/126849/07		
BBBEE status:	TBC		
Physical address:	Portion 13 of Farm,127 Yzervarkunsrug, Saldanha, 7395		
Postal address:	P.O. Box 6839, Rogge Bay		
Postal code:	8012	Cell:	082 771 1798
Telephone:	021 418 0280	Fax:	/
E-mail:	Shiyaam.rossie@assegaipower.com		

Name of the landowner:	Multiple landowners are applicable to the development – Refer to Appendix 3		
Name of contact person for landowner (if other):	Refer to Appendix 3a		
Postal address:	Refer to Appendix 3a		
Postal code:	Refer to Appendix 3a	Cell:	082 771 1798
Telephone:	Refer to Appendix 3a	Fax:	/
E-mail:	Refer to Appendix 3a		

Name of Person in control of the land:	Multiple landowners are applicable to the development – Refer to Appendix 3		
Name of contact person for person in control of the land:	Refer to Appendix 3		
Postal address:	Refer to Appendix 3a		
Postal code:	Refer to Appendix 3a	Cell:	
Telephone:	Refer to Appendix 3a	Fax:	
E-mail:	Refer to Appendix 3a		

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as Error! Reference source not found..

Unless the application is in respect of linear activities or Strategic Infrastructure Projects as contemplated in the Infrastructure Development Act (Act No. 23 of 2014), written consent of landowner/s must be submitted in Error! Reference source not found.. Land-owner consent (See **Appendix 3b**) has been obtained for the development of the non-linear component of the project (power generation on a property owned by Avedia Energy Pty Ltd). The other components of the project are linear thus landowner consent was not obtained.

The originally signed declaration undertaking by the applicant must be submitted **Refer to Appendix 11**

Provincial Environmental Authority:	Western Cape Government Department of Environmental Affairs and Development Planning Directorate: Development Management (Region 1)		
Name of contact person:	Zaahir Toefy		
Postal address:	Private Bag X 9086 Cape Town		
Postal code:	8000	Cell:	/
Telephone:	(021) 483-5829	Fax:	(021) 483-4372
E-mail:	Zaahir.toefy@westerncape.gov.za		
Local Municipality:	Saldanha Bay Municipality		
Name of contact person in (Environmental Section)	Nazeema Duarte		
Postal address:	Private Bag X12, Vredenburg		
Postal code:	7380	Cell:	
Telephone:	022 701 7116	Fax:	(022) 715 1101
E-mail:	nazeema.duarte@sbm.gov.za		

In instances where there is more than one Local/Provincial Authority involved, please attach a list of those Local/Provincial Authorities with their contact details as **Not Applicable**

4. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

Company of Environmental Assessment Practitioner:	Chand Environmental Consultants cc		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	Level 1	Percentage Procurement recognition 100%
EAP name:	Sadia Chand		
Co-EAPs:	Ingrid Eggert Claudette Muller		
EAP Qualifications:	MPhil (UCT), HBA (University of Toronto)		
Co-EAPs:	Ingrid Eggert: BA Environmental Management (UNISA); BSc Hons Geography in progress Claudette Muller: BSc (Hon) Environmental Science (Rhodes University) MPhil Environment, Society & Sustainability (UCT)		
Professional affiliation/registration:	SACNASP & EAPASA registration pending		
Co-EAPs:	Ingrid Eggert: EAPASA 2019/805 Claudette Muller: EAPASA and SACNASP Registration pending		
Physical address:	Suite 1.2A Richmond Centre 174 - 206 Main Road Plumstead		
Postal address:	PO Box 238		
Postal code:	Plumstead 7801	Cell:	082 561 1961
Telephone:	021 762 3050	Fax:	Not Applicable
E-mail:	sadia@chand.co.za		

The appointed EAP must meet the requirements of Regulation 13 of the EIA Regulations, 2014 as amended. The declaration of independence of the EAP and undertaking under oath or affirmation that all the information submitted or to be submitted for the purposes of the application is true and correct must be submitted as **Refer to Appendix 12**

5. PROJECT DESCRIPTION

Please provide a **detailed** description of the project.

The project area is located adjacent to the Saldanha Industrial Development Zone (IDZ), in Saldanha Bay, Western Cape, where the applicant is proposing to develop a gas-to-power facility for direct transmission into the Eskom electricity grid. The proposal forms part of a bid submission to be included under the Risk Mitigation IPP Procurement Programme for new generation capacity (as advertised by the DMRE).

Assegai Power (Pty) Ltd is proposing the development of a gas-to-power facility for the generation of 150 MW of electricity.

LPG, which would serve as the required fuel, will be purchased from Avedia Energy (Pty) Ltd. The LPG would be vaporised on site to produce vapour for the fuelling of gas turbines. The generated power would be transmitted via a proposed 132 kV overhead transmission line which would connect directly to the Eskom electricity grid.

The proposed activities and associated infrastructure would comprise the following:

- 1) Generation of electricity through gas turbines on a brownfields site;
- 2) Provision of an interconnecting pipeline that would connect Avedia Energy's authorised inbound pipeline to an approved pipeline owned by the Strategic Fuel Fund (SFF);
- 3) An outbound interconnection pipeline that would lead from Avedia Energy's LPG terminal to Arcelor Mittal (AMSA's) bulk gas pipeline that could be used by other entities to supply LPG to other users; and
- 4) A 132 kV overhead electricity transmission line leading from the site and connecting to the nearby Blouwater substation or an existing overhead transmission line.

Proposed layouts of the development components are illustrated in Figure 1, Figure 2 and Figure 3 and are described below.

Component 1: Power Generation Facility

Gas-fired turbines would be placed along the western boundary of the existing brownfields site, partially occupied and owned by Avedia Energy (refer to Figure 1 below). The power generation process entails the direct fire vaporisation of LPG (which is a combination of propane and butane) to produce gas vapour for the fuelling of turbines.

The process would emit nitrogen oxides (NO_x), sulphur dioxide (SO₂), particulate matter, carbon monoxide (CO), volatile organic compounds (VOCs) including benzene, and greenhouse gases, i.e. carbon dioxide (CO₂) and nitrous oxide (N₂O). Selective Catalytic Reduction (SCR) would likely be required as emission abatement technology. The need for SCR in the design of the gas turbines for better emissions control, will be investigated by the air quality specialist and confirmed during the EIA phase.

The total footprint of the power plant and associated structures would be ± 0.5 ha. Some minor clearing and stabilisation would be required to prepare the surface for the positioning of the turbines. Concrete slabs/pads on which to anchor the plant would also be constructed.

Other associated structures on site would include administration and warehouse buildings, and portable containers (refer to Figure 1). Given that the SCR process requires injection with water of a certain quality, a water treatment plant for the demineralisation of municipal water would also be placed on site. Since potable water would be used as intake water, no desalination would be required but some minerals would need to be removed to reduce conductivity. The required treatment process in order to achieve a certain water quality would depend on the final design of the power plant as well as the composition of the intake water.

The volume of water to be supplied to the water treatment plant would be 50 kl/h. The treatment process would produce approximately 35 kl of product water to be channelled to the power plant while it is the intention of the applicant to dispose of the remaining 15 kl to the municipal sewer. The water will be treated/neutralised on site before discharge. Permission for this discharge will be obtained from the local authorities.

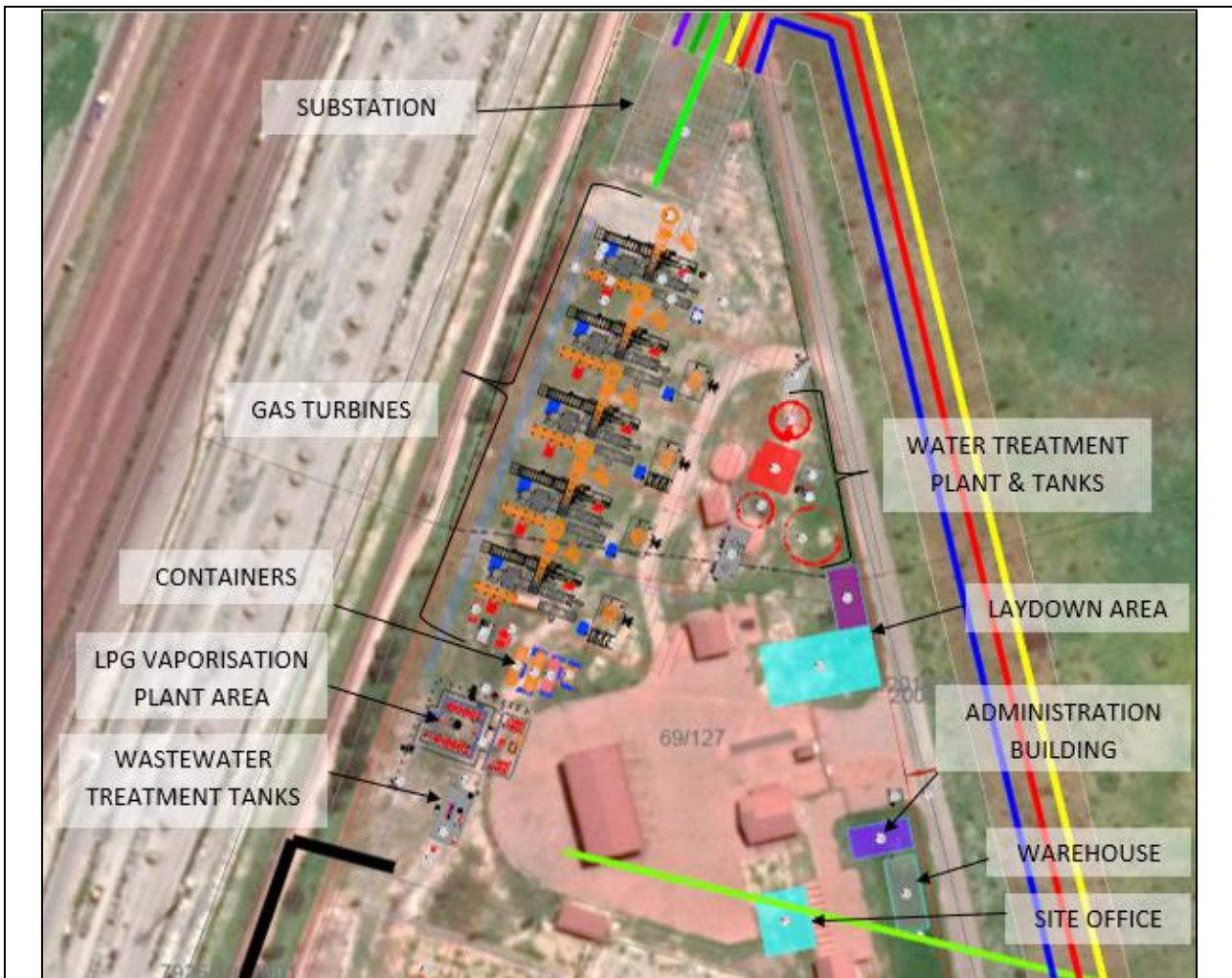


Figure 1: Proposed site layout of power generation facility

Component 2: Substation and Electricity Transmission Line

A new substation (100 m x 75 m) will be constructed in the northern corner of the power generation site from where the generated electricity will be transmitted via a proposed 132 kV overhead transmission line. The final design and dimensions of the overhead transmission line will be confirmed during the EIA phase.

Five route Alternatives were considered during Scoping for the transmission line component. Two additional Alternatives have been conceived during Scoping (see discussion of Alternatives below).

Component 3: Interconnecting inbound LPG pipeline

Two allow for the connection of the Avedia Energy's LPG pipeline to the SFF infrastructure, a new interconnecting pipeline is required.

The new interconnecting pipeline (refer to orange line in **Error! Reference source not found.**) would link Avedia Energy's approved pipeline, which terminates at the Sunrise Energy LPG facility, to the SFF approved pipeline, which extends south west until the Port and terminates at the SFF's berth where LPG is offloaded from a Very Large Gas Carrier (VLGC) in terms of other EAs. The SFF infrastructure and Avedia Energy infrastructure has already been authorised and does not form part of this application.

The interconnecting pipeline portion would measure ± 1.64 km. The pipeline would consist of ASTM A106GrB Sch80 Seamless Carbon Steel. The pipeline would be positioned approximately 1m below ground. Pipeline diameter depends on distance and loading time, but it is expected that an 8-10" diameter would be required. The maximum throughput capacity would be approximately 500 tons per day which is below the threshold of the relevant Listed Activity (Activity No. 7 of LN 2).

Component 4: Interconnecting Outbound LPG pipeline

An “outbound” pipeline is proposed which would allow other entities to channel LPG to other users in the area. The pipeline would extend for ± 2.8 km along Camp Road and connect to an existing pipeline owned by AMSA (refer to lime green line in Figure 2). The throughput capacity of the pipeline would be approximately 500 tons per day.

The pipeline would have the same specifications as the interconnecting inbound pipeline, as described above.

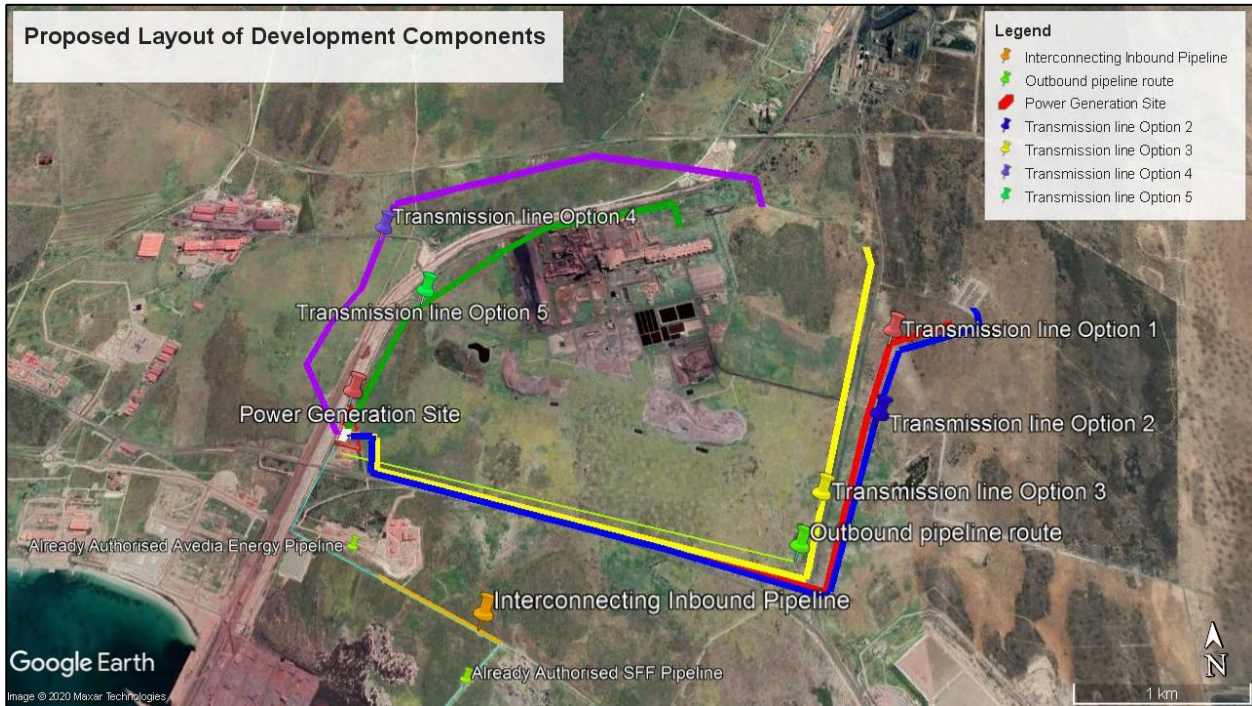


Figure 2: Layout of Development Components initially considered and assessed during Scoping (Created using Google Earth, 2020)

Transmission Line Route Alternatives

The route Alternatives for the proposed transmission line are described below and illustrated in Figure 2 above.

- **Route Alternative 1:** The line would exit the onsite substation, cross the existing site access gravel road, turn south towards Camp Street, follow Camp Street until the intersection, then change direction to the north-east along an unnamed road marked as OP538, until it loops in and out to an existing 132 kV line.
- **Route Alternative 2:** Similar to Option1, the line would exit the onsite substation, cross the gavel road, change direction towards Camp Street, follow Camp Street until the intersection, cross the intersection and then change direction to the north-east along OP538 until terminating at the Blouwater substation.
- **Route Alternative 3:** The line would follow the same route as Option 2 but instead loop in and out to the existing 132kv line.
- **Route Alternative 4:** The line would exit the onsite substation, cross the Saldanha Port's railway and Saldanha Bay Road, follow the route of an existing 66kv line in a north-easterly direction, continue following the 66kv line route, turn east and cross Saldanha Bay Road Road again, follow the existing 66kv route, cross the rail road, and then turn southwards towards the entrance road to Arcelor Mittal (AMSA), finally terminating to the existing 132 kV line.
- **Route Alternative 5:** The line will exit the substation on site follow the railroad (on the eastern side) along the northern periphery of AMSA until it changes direction southwards to loop in and out to the existing 132 kV line.

Route Alternative 2 and Alternative 3 underwent public and stakeholder review during pre-application public participation. In response to landowner consultation and further considerations of technical challenges, the following route Alternatives were furthermore been identified:

- **Route Alternative 6:** Similar to Alternative 4, the line would exit the onsite substation, cross the Saldanha Iron Ore terminal railway and Saldanha Bay Road, follow the railway in a northerly direction (closer to the railway when compared to Alternative 4), turn in a north-easterly direction to follow the route of an existing 66 kV line, cross the railway again, and then turn southwards towards the entrance road to AMSA, finally terminating to an existing 132 kV line (refer to green line in Figure 3 **Error! Reference source not found.**). The servitude width for the 132 kV line would be 31m. The distance between the 132 kV line and existing 66 kV line would be 32m between the centre lines.
- **Route Alternative 7:** This Alternative would entail the upgrading of the existing overhead 66kV line which runs along the Saldanha Iron Ore Terminal and turns south-east to terminate at the Blouwater substation. The line extends to an existing power plant to the south of the site. The entire line would be upgraded to 132kV (refer to red line in Figure 3).

It is proposed that only these two Alternatives be taken into the EIA phase.

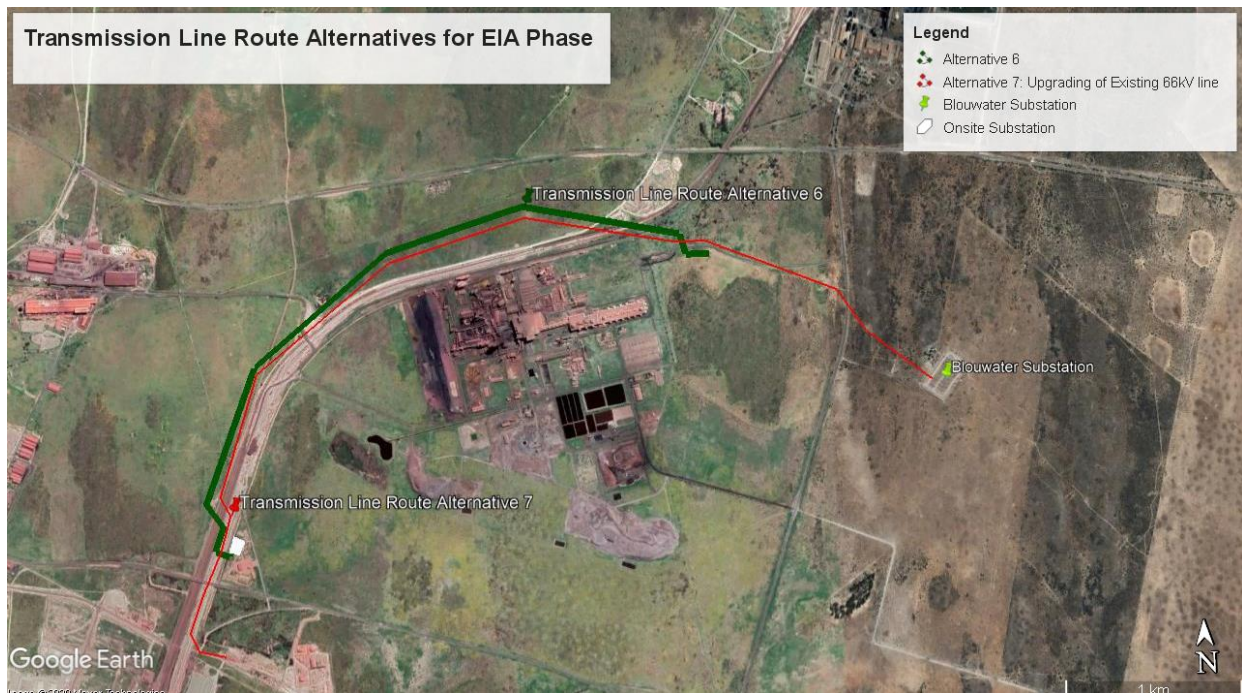


Figure 3: Transmission Line Route Alternatives to be assessed in EIA

Service Infrastructure

Site Access and Roads

The power generation facility would be accessed via the existing entrance to Avedia Power's LPG terminal which is located in the south eastern corner of the site. The gravel access road is off the paved Camp Street and the controlled access point is positioned approximately 200 m east of Camp Street. Additional internal roads would not be required.

Water Supply

A new municipal connection would be made to service the site and the Saldanha Bay Municipality has confirmed capacity to provide 2000 kl/day. This water supply would be treated and used for the required water injection for the gas turbines should the technology Alternative of Selective Catalytic Reduction (SCR) be preferred.

Sewage

Sewage generated by the power generation site will be discharged to municipal sewage infrastructure and sufficient capacity will be confirmed with the local municipality during the EIA phase. Existing infrastructure would be used for the management of minor volumes of domestic sewage. The sewer reticulation comprises pipes of 110mm diameter and 160 mm diameter.

Electricity Supply

The large Avedia Energy LPG site is currently not serviced with a municipal power connection and onsite generators are used for electricity requirements. It is anticipated that the generator will continue to service the site. The exact electricity demand, whether this would need to be sourced from the local municipality and whether sufficient capacity exists on the network, or whether it would be feasible to use electricity produced by the proposed power plant to service the site, would be confirmed during the EIA phase.

Waste Management

Refuse is currently collected from the larger Avedia Energy site by an external service provider. It is anticipated that waste volumes would increase, but it is anticipated that the same service provider would be used.

Hazardous waste will be produced by the construction and operational phase of the proposed development (for example lubricants, empty hydrocarbon containers/drip trays, oily rags etc.). The EMPr will specify waste management measures, including the management of hazardous waste.

Stormwater Management

Stormwater on the larger Avedia Energy site is accommodated by an existing 500 m³ lined reservoir on the western boundary of the property and a bioretention area south of the reservoir. It is anticipated that additional stormwater generated on the property as a result of the new hard surfaces / structures could be managed by existing stormwater infrastructure. A Stormwater Management Plan will be compiled in this regard.

Does the project form part of a Renewable Energy Development Zone (REDZ) as per GN 114?		NO
Does the project form part of an Electricity Grid Infrastructure (EGI) as per GN 113?	YES	
Does the project form part of any of the Strategic Infrastructure Projects (SIPs) as described in the National Development Plan, 2011? While it is the opinion of the EAP that the project would qualify as a SIP- 9 project for the transmission of electricity, the SIP co-ordinator indicated that this could only be confirmed after the applicant was confirmed as a successful bidder and closer to implementation. Refer to Appendix 5.	YES	NO
Did you attached the confirmation of SIP obtained from the relevant sector representative (SIP Coordinators) and not a motivation from an EAP		NO

If **YES**, is selected:

- For an application in terms of GN 113 and/or 114, then a map confirming this must be attached; **Refer to Appendix 4**
- For a SIP project, kindly indicate which SIPs are applicable in Error! Reference source not found.-**and attach the** confirmation of SIP applications from the relevant sector representative. Should no proof be provided, the application will be considered as a normal EIA Application. **Refer to Appendix 5** for correspondence with the SIP co-ordinator.

Please indicate which sector the project falls under by ticking the relevant block in the table below:

Table 1: National Sector Classification in terms of Regulation 9 of the EIA Regulations, 2014 as amended

4	Infrastructure /Transport Services/Roads— Public	-	42	Services/Waste Management Services/Disposal facilities—General	
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2	Infrastructure /Transport Services/Roads – Private	-	43	Services/Waste Management Services/Treatment facilities – Hazardous	
3	Infrastructure /Transport Services/Rail – Public	-	44	Services/Waste Management Services/Treatment facilities – General	
4	Infrastructure /Transport Services/Rail – Private	-	45	Services/Waste Management Services/Storage Facilities – General	
5	Infrastructure /Transport Services/Airport/Runways/Landing Strip/Holipad – Commercial	-	46	Services/Waste Management Services/Storage Facilities – Hazardous	
6	Infrastructure /Transport Services/Airport/Runways/Landing Strip/Holipad – Private		47	Services/Waste Management Services/Storage Facilities – Nuclear	-
7	Infrastructure /Transport Services/Airport/Runways/Landing Strip/Holipad – Public Services		48	Services/Burial and cemeteries – Cemeteries	-
8	Infrastructure /Transport Services – Ports		49	Services/Burial and cemeteries – Cremators	-
9	Infrastructure /Transport Services – Inland Waterways		50	Services/Water services/Storage – Dams	-
10	Infrastructure /Transport Services – Marina		51	Services/Water services/Storage – Reservoirs	-
11	Infrastructure /Transport Services – Canal		52	Services/Water services – Desalination	-
12	Infrastructure /Localised infrastructure – Infrastructure in the Sea/Estuary/Littoral Active Zone/Development Setback/100M Inland/or coastal public property.		53	Services/Water services – Treatment & Wastewater	-
13	Infrastructure /Localised infrastructure – Zip Lines & Foefie Slides		54	Services – Hospitality	-
14	Infrastructure /Localised infrastructure – Cableway or Funiculars		55	Mining – Prospecting rights	-
15	Infrastructure /Localised infrastructure – Billboards		56	Mining – Mining Permit	-
16	Infrastructure /Localised infrastructure/Storage/Dangerous Goods/Hydrocarbon – Gas		57	Mining – Mining Right	-

17	Infrastructure /Localised infrastructure/Storage/Dangerous Goods/Hydrocarbon –Petroleum		58	Mining/Exploration Right – Gas or Oil Marine	-
18	Infrastructure /Localised infrastructure/Storage/Dangerous good –Chemicals		59	Mining/Exploration Right – Gas or Oil Terrestrial	-
19	Utilities Infrastructure/Pipelines/water – Fresh/Storm Water		60	Mining/Production Right – Gas or Oil Marine	-
20	Utilities Infrastructure/Pipelines/water – Waste Water		61	Mining/Production Right – Gas or Oil Terrestrial	-
21	Utilities Infrastructure/Pipelines/Dangerous Goods –Chemicals		62	Mining/Underground gasification of coal –Oil	-
22	Utilities Infrastructure/Pipelines/Hydrocarbon – Petroleum		63	Mining/Beneficiation – Hydrocarbon	-
23	Utilities Infrastructure/Pipelines/Hydrocarbon - Gas	X	64	Mining/Beneficiation – Mineral	-
24	Utilities Infrastructure/Telecommunications/ Radio Broadcasting –Tower	-	65	Agriculture/Forestry/ Fisheries –Crop Production	-
25	Utilities Infrastructure/Telecommunications/ Radio Broadcasting – Mast	-	66	Agriculture/Forestry/ Fisheries –Animal Production	-
26	Utilities Infrastructure/Telecommunications/ Radio Broadcasting – Receivers	-	67	Agriculture/Forestry/ Fisheries –Afforestation	-
27	Utilities Infrastructure – Marine Cables	-	68	Agriculture/Forestry/ Fisheries/Aquaculture/Inland –Alien	-
28	Utilities Infrastructure/Electricity /Generation/Non-Renewable/Hydrocarbon –Petroleum		69	Agriculture/Forestry/ Fisheries/Aquaculture/Inland-Indigenous	-
29	Utilities Infrastructure/Electricity /Generation/Non-Renewable/Hydrocarbon –Coal		70	Agriculture/Forestry/ Fisheries/Aquaculture/Marine –Alien	-
30	Utilities Infrastructure/Electricity /Generation/Non-Renewable –Nuclear	-	71	Agriculture/Forestry/ Fisheries/Aquaculture/Marine –Indigenous	-

31	Utilities Infrastructure/Electricity /Generation/Renewable—Hydro	-	72	Agriculture/Forestry/ Fisheries - Agro-Processing	
32	Utilities Infrastructure/Electricity /Generation/Renewable/Solar - PV	-	73	Transformation of land—Indigenous vegetation	
33	Utilities Infrastructure/Electricity /Generation/Renewable/Solar—CSP	-	74	Transformation of land—From open space or Conservation	
34	Utilities Infrastructure/Electricity /Generation/Renewable—Wind	-	75	Transformation of land—From agriculture or afforestation	
35	Utilities Infrastructure/Electricity /Generation/Renewable—Biomass/ biofuels	-	76	Transformation of land—From mining or heavy industrial areas	
36	Utilities Infrastructure/Electricity /Generation/Renewable—Wave		77	Any activities within or close to a watercourse	
37	Utilities Infrastructure/Electricity /Distribution and Transmission - Power line	X	78	Any activity in an estuary, on the seashore, in the littoral active zone, or in the sea.	
38	Utilities Infrastructure/Electricity /Distribution and Transmission—Substation		79	Activity requiring permit or licence in terms of National or Provincial legislation governing the release or generation of emissions - Emissions	X
39	Utilities Infrastructure/Gas /Distribution and Transmission—Compressor Station		80	Activity requiring permit or licence—Marine Effluent	
40	Services/Waste Management Services/Disposal facilities—Hazardous		81	Activity requiring permit or licence—Fresh Water Effluent	
82	Release of Genetically Modified Organisms				

Table 1

Does the listed activity/ies applied for form part of a larger project which is not a listed activity itself e.g. a road that is a listed activity that is needed to access a drilling site where the drilling does not constitute a listed activity.		NO
If indicated yes above, please provide a brief description on how the activity/ies relate to the larger project that forms part there of: Not Applicable		

6. SITE DESCRIPTION

Provide a detailed description of the site involved in the application.

Province/s	Western Cape
District Municipality/ies	West Coast District Municipality
Local Municipality/ies	Saldanha Bay Municipality

Ward number/s	Ward 14 & Ward 5
Nearest town/s	Saldanha Bay
Farm name/s and number/s	Refer to Appendix 3a
Portion number/s	Refer to Appendix 3a

Surveyor General 21-digit code:

(If there are more than 4, please attach a list with the rest of the codes as ~~Error! Reference source not found.~~ Where the 2 1 digit SGID and farm name are not available, the coordinates of the boundary of the property or properties must be provided in ~~Error! Reference source not found.~~

Refer to Appendix 3a for Surveyor General 21-digit codes:	
Locality map: Refer to Appendix 6	<p>A locality map must be attached to the application form, as Error! Reference source not found. The scale of the locality map must be at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map. The map must include the following:</p> <ul style="list-style-type: none"> • an accurate indication of the project site position as well as the positions of the alternative sites, if any; • road names or numbers of all the major roads as well as the roads that provide access to the site(s) • a north arrow; • a legend; • the prevailing wind direction; • site sensitivities, including but not limited to vegetation, wetlands, watercourses, heritage sites, critical biodiversity area/s, World Heritage Site, etc. and it must be overlaid by the study area; and • GPS co-ordinates (Indicate the position of the proposed activity with the latitude and longitude at the centre point for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should be to at least three decimal places. The projection that must be used in all cases is the WGS-84 spheroid in a national or local projection)
Project Plan (e.g. Gantt chart) Refer to Appendix 7	<p>A project schedule must be submitted as Error! Reference source not found., and must include milestones for:</p> <ul style="list-style-type: none"> • public participation (dates for advertisements, workshops and other meetings, obtaining comment from organs of state including state departments); • the commencement of parallel application processes required in terms of other statutes and where relevant, the alignment of these application processes with the EIA process; • the submission of the key documents (e.g. Basic Assessment Report, Scoping Reports, EIA Reports and Environmental Management Programmes). <p>Note: All the above dates must take into account the statutory timeframes for authority responses that are stipulated in the 2014 NEMA EIA Regulations. Possible appeals may impact on project timeframes/milestones. Regulation 45 states that “An application in terms of these Regulations lapses, and a competent authority will deem the application as having lapsed, if the applicant fails to meet any of the time-frames prescribed in terms of these Regulations, unless extension has been granted in terms of regulation 3(7).” It is recommended that the Department be approached for guidance on the process to be followed, prior to submitting an application.</p>

7. ACTIVITIES APPLIED FOR

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

Please note that any authorisation that may result from this application will only cover activities specifically applied for. Only those activities listed above shall be considered for authorisation. The onus is on the applicant to ensure that all applicable listed activities are included in the application. Environmental Authorisation must be obtained prior to commencement with each applicable listed activity.

Coordinate points indicating the location of each listed activity must be provided as part of Error! Reference source not found. as well part of the reports to be submitted. Coordinates must be provided in degrees, minutes and seconds using the Hartebeesthoek94 WGS84 co-ordinate system. Refer to [Appendix 7](#)

8. PUBLIC PARTICIPATION

Activity No(s):	Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 1 of the EIA Regulations, 2014 as amended.	Describe the portion of the proposed project to which the applicable listed activity relates.
11	<p>The development of facilities or infrastructure for the transmission and distribution of electricity—</p> <p>(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts; or</p> <p>(ii) (ii) inside urban areas or industrial complexes with a capacity of 275 kilovolts or more;</p> <p>excluding the development of bypass infrastructure for the transmission and distribution of electricity where such bypass infrastructure is —</p> <p>(a) temporarily required to allow for maintenance of existing infrastructure; (b) 2 kilometres or shorter in length;</p> <p>(c) within an existing transmission line servitude; and</p> <p>(d) will be removed within 18 months of the commencement of development.</p>	A Transmission line for the distribution of electricity of 132 kilovolts is proposed and will be located outside an urban area. The site is also located beyond the Saldanha Industrial Development Zone (IDZ). It is understood that this activity is triggered.
Activity No(s):	Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 3 of the EIA Regulations, 2014 as amended.	Describe the portion of the proposed project to which the applicable listed activity relates.
12	<p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>i. Western Cape</p> <p>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</p> <p>ii. Within critical biodiversity areas identified in bioregional plans...</p>	<p>The construction of the outbound pipeline and transmission line will traverse undeveloped vegetated areas mapped as Critical Biodiversity Areas (CBAs). The area also historically contained Saldanha Flats Strandveld which is listed as Endangered.</p> <p>The actual sensitivity, conservation value and extent of intact vegetation which may be affected must however still be investigated by a specialist. <u>The applicability of the activity will be confirmed in the EIA phase.</u></p>
Activity No(s):	Provide the relevant Scoping and EIR Activity(ies) as set out in Listing Notice 2 of the EIA Regulations, 2014 as amended.	Describe the portion of the proposed project to which the applicable listed activity relates.
2	The development and related operation of facilities or infrastructure for the generation of electricity from a non-renewable resource where the electricity output is 20 megawatts or more.	The power plant will have a production capacity of more than 20 megawatts. It is understood that this activity is triggered.
6	The development of facilities or infrastructure for any process or activity which requires a permit or licence or an amended permit or licence in	The activity will require an Air Emissions Licence (AEL) in term of the National Environmental Management: Air

	<p>terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent, excluding—</p> <p>(i) activities which are identified and included in Listing Notice 1 of 2014;</p> <p>(ii) (ii) activities which are included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies;</p> <p>(iii) the development of facilities or infrastructure for the treatment of effluent, polluted water, wastewater or sewage where such facilities have a daily throughput capacity of 2 000 cubic metres or less; or</p> <p>(iv) where the development is directly related to aquaculture facilities or infrastructure where the wastewater discharge capacity will not exceed 50 cubic metres per day.</p>	<p>Quality Act (Act No. 39 of 2004). It is understood that this activity is triggered.</p>
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Provide details of the public participation process proposed for the application as required by Regulation 41(2) of the EIA Regulations, 2014 as amended.

<p>It should be noted that a number of public participation activities has been undertaken for this project under a previous application. These activities are now considered as <u>pre-application public participation</u> under this application.</p> <p><u>Scoping Phase</u></p> <p>The following <u>pre-application</u> public participation activities have been undertaken as part of Scoping:</p> <ul style="list-style-type: none"> • The identification of Interested & Affected Parties (I&APs) and the compilation of an I&AP database. A preliminary database of I&APs was compiled. The following parties as required in Regulation 41 (2) (b) of the EIA Regulations, 2014 (as amended) were included in the preliminary I&AP database: <ul style="list-style-type: none"> - Owners and Occupiers of the site where the activity is to be undertaken (noting that the Applicant is the landowner and that there are no occupiers of the site); - Owners and Occupiers of the land adjacent to the site where the activity is to be undertaken. A “knock and drop” was undertaken for adjacent landowners without emails addresses, being conscious of COVID-19 sanitation and social distance requirements. - The Municipal Ward Councillor and Sub-Council Manager (the Ward Councillor would also serve as the point of contact with the local community, particularly those who may not have access to internet/documents for download); - Organs of the State having jurisdiction in respect of any aspect of the activity (these include Saldanha Municipality, Department of Human Settlements, Water and Sanitation-DHSWS, Heritage Western Cape, Department of Agriculture, and CapeNature); - Local Ratepayers’ Associations; and - Registered Conservation Bodies
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- Written notification of the S&EIR process, registration of I&APs and public review dates for the draft Scoping Report were circulated to legislated I&APs and potential I&APs in October/November 2020. The following actions were undertaken:
 - Distribution of a notification letter to the preliminary I&AP database (which includes parties required in terms of Regulation 41 (2) (b) of the EIA Regulations, 2014 (as amended)) via email to those who have email addresses and registered post to those who only have postal addresses;
 - Placement of notice boards on the site and alternative sites where the proposed activities are to be undertaken on the site boundary (noting that contents and size would adhere to requirements of Regulations 41 (3) and (4) of the EIA Regulations, 2014 (as amended));
 - A knock-and-drop exercise to occupiers/owners adjacent to the boundary of the site;
 - Compilation and placement of one advertisement (in English) in the Cape Times (which is a regional newspaper) and an Afrikaans advert in Die Weslander (which is a local community newspaper) (noting that contents would adhere to requirements of Regulation 41 (3) of the EIA Regulations, 2014 (as amended)).
 - Placement of notices of the application at the Saldanha Library and Saldanha Clinic as well as a comment box with comment sheets.

- A 30-day public review of a Draft Scoping Report was undertaken. The report was made available through the following means:
 - The availability of the report for download from Chand's website;
 - The placement of a hard copy at the Saldanha Library as well as a comment box with comment sheets; and
 - The option to WhatsApp or SMS comments was also made available to I&APs.

- A Comments & Response report based on the comments received on the Draft Scoping Report was compiled.

- Strategic Stakeholder Engagement activities that were undertaken included:
 - Virtual Focus Group Meeting (FGM) with conservation/local interest bodies and authorities

The following public participation activities will be undertaken post-application:

- The circulation of the Draft Scoping Report (2nd Application) for public review from 28 Nov 2020 to 18 January 2021;
- I&APs will be notified via email and those without email addresses via registered post;
- Placement of a hard copy of the report at the Saldanha Bay Library;
- For I&APs with access to the internet, a link will be sent with the email notification allowing for the downloading of the report from the Chand website; and
- The availability of a WhatsApp/SMS line to submit comments.

Comments received on the Draft Scoping Report will be responded to and incorporated into the Final Scoping Report.

EIA Phase:

The following activities will be undertaken during the EIA Phase:

- A 30-day public review of the Draft EIR would be undertaken:
 - Registered I&APs would be notified of the availability of the report and their opportunity to comment, via email to those who have email addresses and registered post to those who only have postal addresses.
 - The report would be made available for download from the Chand website and the link to the report would be included in the notification letter;
 - Hard copies of the report would be placed at the Saldanha Library as well as a comment box with comment sheets; and
 - The option to WhatsApp or SMS comments will also be available for I&APs.
 - Hard copies would be provided to state department/I&APs upon reasonable request

- A digital Open House consisting of a series of themed videoconferences would be hosted during the public review period **OR** (if National Lockdown regulations allow for it) a traditional Open House would be hosted at an appropriate venue in Saldanha.
- A Comments & Response report based on the comments received on the Draft EIR would be compiled to ensure that all comments are addressed.
- Notification of decision: The decision, reasons for decision, means to access the decision, and an explanation regarding the way the decision may be appealed, as well as any further requirements stipulated therein would be distributed to the I&AP database via email for those who have email addresses, and registered post for those who only have postal addresses. It would also be uploaded onto Chand's website so it would be accessible for download. The applicable appeal period would be explained in accordance with that included in the decision.

Refer to **Appendix 9(a)** for the full Public Participation Plan which also contains more details on the planned approach.

The Public Participation Plan was approved on 27 November 2020 by the DEFF. Refer to **Appendix 9(b)** for the proof of approval.

9. OTHER AUTHORISATIONS REQUIRED

Are there any other applications for Environmental Authorisation on the same property?		YES
If YES, please indicate the following:		
Competent Authority	Department of Environmental Affairs & Development Planning	
Application Reference Number	E12/2/4/2/F4/16/3001/12	
Project Name	The Proposed Construction of a Liquid Petroleum Gas Handling Facility and Associated Infrastructure on Farm Yzervarkensrug 127/13, Saldanha EA holder is Avedia Energy (Pty) Ltd	
Please provide details of the steps taken to ascertain this information: An onshore LPG handling terminal was authorised on Farm Yzervarkensrug 127/13, Saldanha, by the Department of Environmental Affairs & Development Planning (DEA&DP) on 6 January 2014. The EA included the authorisation of an underground pipeline for the transportation of LPG to the facility. The authorised LPG terminal was constructed in November 2014 (following an Appeal process after which the EA was upheld by the Minister) and is currently operational. The proposed gas turbines under this application will be placed in the undeveloped northern corner of this property. The land will be leased from Avedia Energy by Assegai Power (the Applicant). Excavations for the installation of the LPG pipeline commenced in 2018 and the EA remains valid. An EA was also issued to the Strategic Fuel Fund (SFF) for the construction of a pipeline which extends from the Port of Saldanha inland. The proposed inbound interconnecting pipeline will connect to this pipeline (which must still be constructed). The Applicant does not have access to this EA. Only the reference number of the application is known: 14/12/16/3/3/2/1069.		

IF YES IS SELECTED, PLEASE ATTACH OTHER AUTHORISATIONS ISSUED. Refer to **Appendix 10** for Avedia Energy's EA and the Minister's Appeal decision.

Applications in terms of the National Environmental Management Act ("NEMA") & specific environmental management Acts ("SEMA's"):

LEGISLATION	AUTHORISATION REQUIRED	APPLICATION SUBMITTED
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Is Section 50(5) of the National Environmental Management: Protected Areas Act applicable to your proposed development? (The proposed development is within a proclaimed protected area as defined the Act.)		NO	NO
National Water Act (Act No. 36 of 1998)		NO	NO
National Environmental Management: Air Quality Act (Act No. 39 of 2004) The release of air emissions will trigger Section 21 of the Act requiring the need for an Air Emissions Licence (AEL). An application must still be lodged with the competent authority.	YES		NO
National Environmental Management: Biodiversity Act (Act No. 10 of 2004)		NO	NO
National Environmental Management: Integrated Coastal Management Act (Act No. 24 of 2008)		NO	NO
National Environmental Management: Protected Areas Act (Act No. 57 of 2003)		NO	NO
National Environmental Management: Waste Act (Act No. 59 of 2008)		NO	NO
Others: Please specify National Heritage Resources Act (Act No. 25 of 1999) Given the length of the proposed transmission line, the NHRA is triggered. A NID submission was made to Heritage Western Cape (HWC) who responded that an integrated HIA be undertaken. HWC will be a commenting authority in this respect.	YES		NO

Please be advised that:

- If a Waste Management license is required in terms of the National Environmental Management: Waste Act, please contact the Department for guidance on the **Integrated Permitting System**. **An IPS application can only be lodged with this Department in the event that this Department is the Competent Authority for both the EIA and Waste related activities;**
- If Sections 7B and 7C of the National Environmental Management: Integrated Coastal Management Act is applicable to your proposed development, you are required to obtain pre-approval for a reclamation application prior to an Application for Environmental Authorisation being lodged with the Competent Authority;
- If Section 50(5) of the National Environmental Management: Protected Areas Act is applicable to your proposed development, you are required to obtain approval from the Management Authority prior to an Application for Environmental Authorisation being lodged with the Competent Authority; and
- If Section 38 of the National Heritage Resources Act (Act No. 25 of 1999) is applicable to your proposed development, you are requested to submit the Notice of Intent form to the relevant SAHRA or a Provincial Heritage Resources Authority and attach a copy to this form. If it is indicated that a Heritage Impact Assessment will be required, the Heritage Impact Assessment must be undertaken as one of the specialist studies of the EIA process to be undertaken in terms of the NEMA EIA Regulations, 2014, as amended.

10. LIST OF APPENDICES

		SUBMITTED	
APPENDIX 1	Copy of the pre-application meeting minutes	YES	
APPENDIX 2	Proof of Payment / Motivation for exclusion	YES	
APPENDIX 3	List of landowners (with contact details) and written consent of landowners. (activity is a linear development)	YES	
APPENDIX 4	List of Local/Provincial Authority involved (with contact details) Not Applicable as multiple authorities are not relevant to the development site		NO
APPENDIX 5	Strategic Infrastructure Projects	YES	
APPENDIX 6	List of SGIDs and coordinates	YES	
APPENDIX 7	Locality map	YES	
APPENDIX 8	Project schedule	YES	
APPENDIX 9	Declaration of Applicant	YES	
APPENDIX 10	Declaration of EAP and undertaking under oath or affirmation	YES	
APPENDIX 11	Screening Tool Report	YES	
APPENDIX 12	Undertaking under Oath / Affirmation	YES	

LIST OF APPENDICES

Appendix 1	Pre-Application Meeting Minutes
Appendix 2	Proof of Payment
Appendix 3	Property and Landowner Information a) List of applicable properties b) Land-owner consent for non-linear component
Appendix 4	Electricity Grid Infrastructure (EGI) Map
Appendix 5	Strategic Infrastructure Projects: Communication from SIP Co-ordinator
Appendix 6	Locality Map
Appendix 7	Project Schedule
Appendix 8	Co-ordinates of listed activities
Appendix 9	Public Participation Plan a) Final Public Participation Plan b) Approval of Public Participation Plan and DEFF comments
Appendix 10	Environmental Authorisation and Appeal Decision of Avedia LPG Handling Site
Appendix 11	Declaration of Applicant
Appendix 12	Declaration of EAP and undertaking under oath/affirmation
Appendix 13	Screening Tool Reports a) Inbound Pipeline Screening Report b) Main Site Screening Report c) Transmission Line Options Screening Report d) Outbound Pipeline Screening Report e) Transmission Line Option 6 & Option 7 Screening Report
Appendix 14	Site Visit Verification Report

