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REPORT IN SUPPORT OF A PART 2 AMENDMENT TO AN ENVIRONMENTAL AUTHORISATION
in terms of Regulations 31 of the Environmental Impact Assessment Regulations, 2014, promulgated in
terms of the National Environmental Management Act (Act 107 of 1998), as amended.

File Reference Number:

12/12/20/2126

Project Title:

Part 2 amendment application to the Environmental Authorisation for the development of a 100MW commercial solar photo-voltaic (PV) electricity generation facility and its infrastructure on the farm Waschklip 183 (Soventix SA Saldanha 1) near Langebaan, within Saldanha Bay District Municipality in the Western Cape Province.

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DOCUMENT CONTROL

Table 1: Document Control.

PHASE	AUTHOR	STATUS	REVISION	DISTRIBUTED ON	SIGNATURE
Author	Justin Bowers	Draft	00	09 March 2021	

Table 2: General Site Information.

The following general site information is provided:	
21-digit Surveyor General codes of all affected farm portions	
The 21-digit Surveyor General Codes of each cadastral land parcel are as follows:	
<ul style="list-style-type: none"> Farm Waschklip 183 C04600000000018300000 	
Copies of deeds & leases of all affected properties	
Appendix D	
Photos of areas that give a visual perspective of all parts of the site	
Appendix B: Specialist Studies	
PV plant design specifications including:	
Type of technology	Solar PV Plant of PV panels using polycrystalline solar module technology
Structure height	2.5m
Surface area to be covered (including associated infrastructure such as roads)	163ha
Surface orientation	Northern direction
Generation capacity	100MWac
Generation capacity of the facility as a whole at delivery points.	100MWac, less intrinsic losses.

Table 3: Checklist: Content of Report in terms of Regulation 32 of the EIA Regulations, 2014, as amended.

<i>(1)(a) A report, reflecting-</i>	
<i>(i) an assessment of all impacts related to the proposed change;</i>	Page 13 - 40
<i>(ii) advantages and disadvantages associated with the proposed change; and</i>	Page 41 - 50
<i>(iii) measures to ensure avoidance, management and mitigation of impacts associated with such proposed change; and</i>	Page 31 - 40
<i>(iv) any changes to the EMPr;</i>	Page 50 - 61
<i>which report-</i>	
<i>(aa) had been subjected to a public participation process, which had been agreed to by the competent authority, and which was appropriate to bring the proposed change to the attention of potential and registered interested and affected parties, including organs of state, which have jurisdiction in respect of any aspect of the relevant activity, and the competent authority, and</i>	Appendix A Page 65 - 115
<i>(bb) reflects the incorporation of comments received, including any comments of the competent authority.</i>	Appendix A Annexure J

EXECUTIVE SUMMARY

Ecoleges Environmental Consultants were appointed by Soventix South Africa (Pty) Ltd, to undertake an application for a Part 2 amendment to the Environmental Authorisation (DEA Ref. 12/12/20/2126, dated 25/01/2013 (plus subsequent amendments and approval for extension of validity) for the development of a 100MW solar photo-voltaic (PV) electricity generation facility on the farm Waschkliip 183 (Soventix SA Saldanha 1) near Langebaan, within Saldanha Bay District Municipality in the Western Cape Province.

The original Environmental Authorisation (EA) process was undertaken in accordance with the published criteria of Renewable Energy Independent Power Producer Programme (REIPPPP). However, the Request For Proposals (RFP) for the risk mitigation IPP procurement programme and Bid Window 5 has additional requirements in terms of generation assurance that necessitates the inclusion of battery storage and gas turbine generation (and associated fuel storage) to ensure the facility can meet its generation mandate irrespective of prevailing weather conditions.

This will require 167MWh of Lithium-Ion battery storage, equating to twenty-two (22) forty-foot (40') containers. Each shipping container is 12.2(l) x 2.43(w) x 2.59(h) in dimensions, with a collective/total footprint of approximately 667m². Additionally, five (5) gas turbine units will be required to generate <10MW of backup electricity. Each turbine unit will take up the footprint of a 40' container. Above-ground diesel storage will be required of less than 30m³ to provide the turbines with fuel. The additional infrastructure of the containerised batteries and gas turbines will only occupy a nominal footprint (<700m²) in relation to the full development. The gas turbine will only run intermittently and include noise suppressants, to reduce noise emissions and potential nuisance to people and the receiving environment. The containers are likely to be installed on plinths above-ground, so as to minimise impacts on stormwater runoff as well as allow for monitoring of leaks and potential soil contamination.

The EA amendment process is to take a holistic approach regarding environmental compliance under all relevant legislation to ensure that the amended project scope does not negatively impact the environment.

The general objectives of public participation stipulated in the EIA Regulations (2014), as amended and the approved PPP Plan issued under the EIA Directions of 5 June 2020, have been undertaken to provide interested and affected parties the opportunity to comment on the amendment report & process including all project information and associated specialist reports. A full Public Participation Process (PPP) was also undertaken to ensure any additional issues and concerns raised by I&APs are duly addressed. The comments and responses are recorded and form part of the Comments & Response Register.

In consideration of the investigated impacts, the nature and extent of the proposed development, compliance with the relevant legal, policy and planning documentation and the findings of the specialist studies, it is anticipated that the amended project scope is supported from an environmental perspective and should be considered for amendment to the Environmental Authorisation, subject to the implementation of the identified recommendations.

DISCLAIMER

Although Ecoleges Environmental Consultants has exercised due diligence whilst drafting this report, Ecoleges shall not be held responsible for any damages or losses suffered by the client, caused by or arising out of circumstances over which Ecoleges has no control, such as the use and interpretation of the Report by the client, the competent authority, its officials or their representatives or agents.

Whilst the authors have made every effort to verify that information provided in this report is reliable, accurate and relevant, this report is based on information that could reasonably have been sourced within the time allocated to the report and is dependent on the information provided by the client and/or its representatives.

It should, accordingly, not be assumed that all possible and applicable findings and/or measures are included in this report as any report represents a sample of the project parameters.

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ABBREVIATIONS AND DEFINITIONS

Table 4: List of terms for abbreviations and acronyms used in this document.

Abbreviation	Term
CA	Competent Authority
DEFF	Department of Environmental, Forestry & Fisheries
DMRE	Department of Mineral Resources & Energy
DWS	Department of Water and Sanitation
EA	Environmental Authorisation
EIA	Environmental Impact Assessment
EIAr	Environmental Impact Assessment Report
EMPr	Environmental Management Programme
GA	General Authorisation
I&AP	Interested and Affected Party
IDP	Integrated Development Plan
IEM	Integrated Environmental Management
IPP	Independent Power Producers
IRP	Integrated Resource Planning
LA	Listed Activity (EIA Regulations, 2014)
LN1	Listing Notice 1: GN R. 983, 4 December 2014 amended in GN No. 327, 7 April 2017, GG No. 41766, GN No. 706, 13 July 2018 and GG No. 43358, GN No. 599, 29 May 2020.
LN2	Listing Notice 2: GN R. 984, 4 December 2014 amended in GN No. 325, 7 April 2017, GG No. 41766, GN No. 706, 13 July 2018 and GG No. 43358, GN No. 599, 29 May 2020.
LN3	Listing Notice 3: GN R. 985, 4 December 2014 amended in GN No. 324, 7 April 2017, GG No. 41766, GN No. 706, 13 July 2018 and GG No. 43358, GN No. 599, 29 May 2020.
MPRDA	Mineral and Petroleum Resources Development Act (Act 28 of 2002)
NDP	National Development Plan
NEM: WA	National Environmental Management: Waste Act (Act 59 of 2008)
NEMA	National Environmental Management Act (Act 107 of 1998)
NEMAQA	National Environmental Management: Air Quality Act (Act 39 of 2004)
NERSA	National Energy Regulator of South Africa
NHRA	National Heritage Resources Act (Act 25 of 1999)
NWA	National Water Act (Act 36 of 1998)
REIPPP	Renewable Energy Independent Power Producer Programme
SAHRA	South African Heritage Resources Agency
SDGs	Sustainable Development Goals
SDF	Spatial Development Framework
SEA	Strategic Environmental Assessment

Table 5: Definitions of some terms used in this document.

Term	Source	Definition
Development	EIA Regulations, 2014 as amended	The building, erection, construction or establishment of a facility, structure or infrastructure, including associated earthworks or borrow pits, that is necessary for the undertaking of a listed or specified activity, but excludes any modification, alteration or expansion of such a facility, structure or infrastructure, including associated earthworks or borrow pits, and excluding the redevelopment of the same facility in the same location, with the same capacity and footprint.
Development footprint	EIA Regulations, 2014 as amended	Any evidence of physical alteration as a result of the undertaking of any activity.
Environment	ISO 14001:2015	Surroundings in which an organisation operates, including air, water, land, natural resources, flora, fauna, humans and their relationships.
Environment	National Environmental Management Act (Act 107 of 1998)	The surroundings within which humans exist and that are made up of— (i) the land, water, and atmosphere of the earth; (ii) micro-organisms, plant, and animal life; (iii) any part or combination of (i) and (ii) and the interrelationships among and between them; and (iv) the physical, chemical, aesthetic, and cultural properties and conditions of the foregoing that influence human health and well-being.
Environmental aspect	ISO 14001:2015	Element of an organization's activities or products or services that interacts or can interact with the environment.
Environmental impact	ISO 14001: 2015	Change to the environment, whether adverse or beneficial, wholly, or partially resulting from an organisation's environmental aspects.
Interested party	ISO 14001: 2015	Person or organisation that can affect, be affected by, or perceive itself to be affected by a decision or activity.
Impacts	ISO 14001:2015	Any change to the environment, whether adverse or beneficial, wholly, or partially resulting from an organization's environmental aspects.
Significant impact	EIA Regulations, 2014 as amended	An impact that may have a notable effect on one or more aspects of the environment or may result in non-compliance with accepted environmental quality standards, thresholds or targets and is determined through rating the positive and

		negative effects of an impact on the environment based on criteria such as duration, magnitude, intensity and probability of occurrence.
Sustainable development	National Environmental Management Act (Act 107 of 1998)	The integration of social, economic, and environmental factors into planning, implementation and decision-making so as to ensure that development serves present and future generations.
Watercourse	EIA Regulations, 2014 as amended	(a) a river or spring; (b) a natural channel in which water flows regularly or intermittently; (c) a wetland, pan, lake or dam into which, or from which, water flows; and any collection of water which the Minister may, by notice in the Gazette, declare to be a watercourse as defined in the National Water Act, 1998 (Act No. 36 of 1998); and a reference to a watercourse includes, where relevant, its bed and banks.

DETAILS OF THE EAP AND APPLICANT

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INTRODUCTION

The project underwent an environmental authorisation process as part of the feasibility study and prerequisite by the National Energy Regulator of South Africa (NERSA) for awarding a Power Purchase Agreement (PPA) under the Renewable Energy Feed in-Tariff (REFIT) program. In accordance with the Ministerial determination as gazetted on the 7th of July 2020, the Minister of Mineral Resources and Energy, in consultation with the National Energy Regulator of South Africa has determined that the Department is to procure 2000 MW of new generation capacity from a range of energy source technologies. The risk mitigation IPP procurement programme has been designed by the Department in order to fulfil the minister's directive. The promulgation of the IRP 2019 and associated Ministerial determinations, guide the roll out of the Independent Power Producers Procurement Programme (IPPPP). The procurement of renewable energy from IPPs through renewable energy sources is required in order to meet the national commitment to transition to a low carbon economy with a target of 17 800 MW by 2030.

Independent Power Producers (IPP) that rely on renewable resources for this generation, such as Solar photovoltaic (PV) are subject to a number of factors that will influence generation efficiency. These factors include those within the operators control including PV characteristics, tracking, and those external to operator influence including temperature and cloud cover conditions. Renewable IPPs are required to ensure there is sufficient power to meet generation commitments made to Eskom and will need to augment a capacity deficit with alternative generation capacity. In order to retain the Greenhouse gas (GHG) benefits of renewables, these alternative generation mechanisms will need to generate lower emissions than the PV facility is aiming to mitigate from the Fossil Fuel (FF) grid (Ogier, 2021).

As the renewable IPPs are required to ensure there is sufficient power to meet generation commitments, the utilisation of battery banks charged though the non-grid generated capacity will cover the capacity shortfall in the scenario of inclement weather or any other reason the PV facility is unable to meet the requirement. Further generation assurance is provided by generation facilities at the PV locations. These generators are able to output <10MW to augment the power supply when battery banks are not sufficient (Ogier, 2021).

The energy sector is the largest contributor with 79.5% or 429 907 Gg CO₂e of the total gross emissions for South Africa. This sector is broken down further into energy generation industries (60.4%), Transport (12.6%), Other sectors (11.4%), and Manufacturing industries and construction (8.6%). Since 2000 this sector has increased by 25.0% with the majority of the increase coming in the energy generation industry specifically. This recent increase highlights the need for IPPs to produce renewable energy to mitigate the GHG emissions from the growing needs of the country while endeavouring to meet the United Nations Framework Convention on Climate Change (UNFCCC) Greenhouse gas (GHG) commitments (Ogier, 2021).

SECTION I: AN ASSESSMENT OF ALL IMPACTS RELATED TO THE PROPOSED CHANGE

The general objective of integrated environmental management is, *inter alia*, to “*identify, predict and evaluate the potential and actual impact on the environment, socio-economic conditions and cultural heritage, the risks and consequences and alternatives and options for mitigation of activities, with a view to minimising negative impacts, maximising benefits, and promoting compliance with the principles of environmental management*”. – (Section 23(2)(b) of NEMA 107 of 1998)

Ecoleges sets out to identify impacts and suggest mitigations by following the logical sequence of steps illustrated in Figure 1. A clearly defined scope is critical for creating the mould within which the EMPr shall be cast and updated/amended. Environmental impacts are defined as any change to the environment, whether adverse or beneficial, wholly, or partially resulting from those elements of the proposed activities that can interact with the environment. Consequently, the activities need to be identified (step 2) before their impacts (step 3) can be predicted. Step 4 is incorporated as a safety net to capture those elements that are not identified in the previous two steps. Finally, mitigations are sought and tailored to counteract the project-specific impacts and achieve goals and objectives in line with environmental best practice.

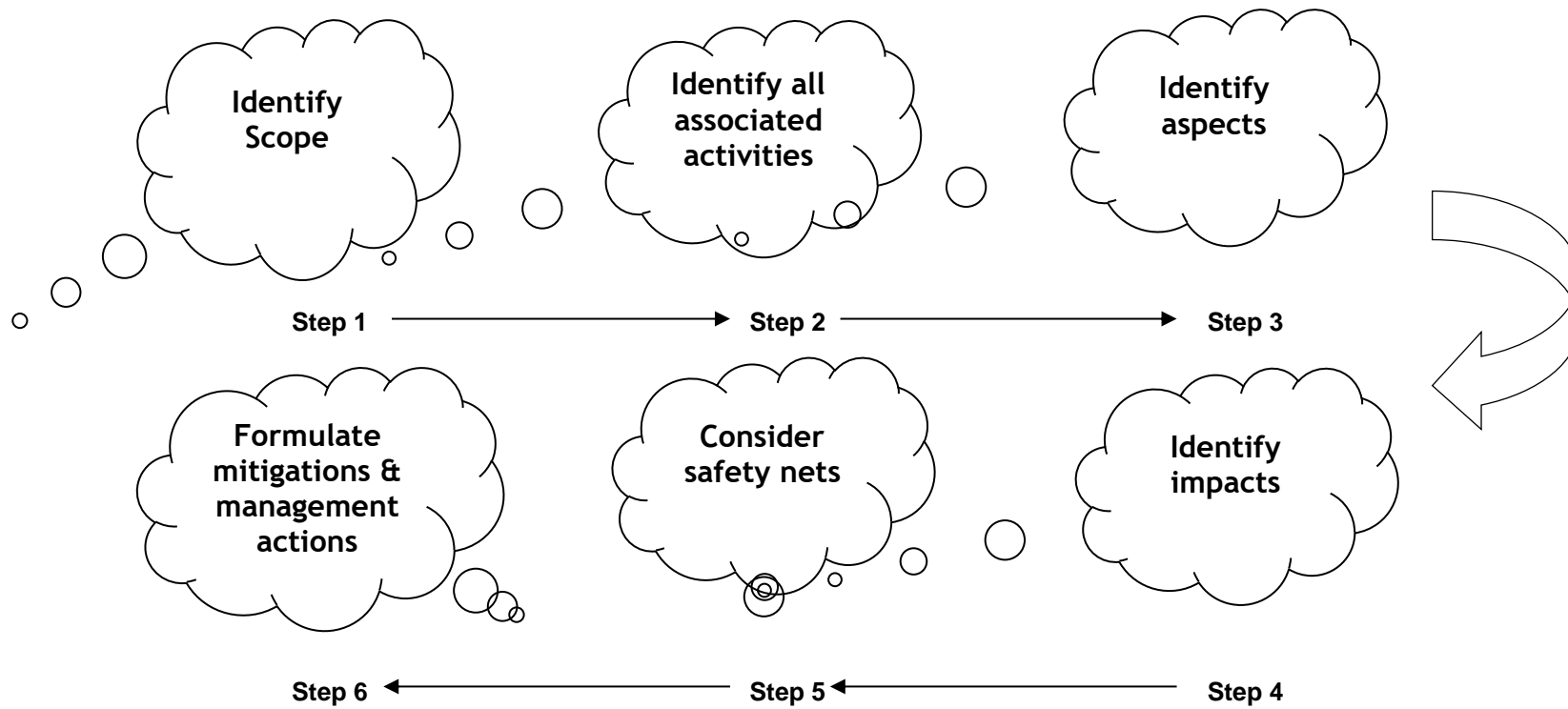


Figure 1. Procedure for identifying the project-specific mitigation of activities.

IDENTIFICATION OF ACTIVITIES, SUB-ACTIVITIES, ASPECTS AND ENVIRONMENTAL DESCRIPTORS

Tables 6, 7, 8, 9 & 10 describe all the activities that will be undertaken as part of the amendment application which are not Listed Activities under the EIA Regulations (2014) as amended, and do not require environmental authorization, but whose impacts have to be considered, mitigated and managed through incorporation into an updated and amended EMPr.

Table 6: Activities and aspects including the affected environment for the planning and design phase of the amendment process. Aspects highlighted in “green” resulted in positive impacts.

PLANNING & DESIGN PHASE			
ACTIVITY	SUB-ACTIVITY/IES	ENVIRONMENTAL ASPECT	ENVIRONMENTAL DESCRIPTOR
Legal - Acquiring Authorisations, permits and/or licenses for activities/uses undertaken during construction and operation	Application for Part 2 amendment, and Specialist studies	Potential offences	Legal
Sustainable resource requirements (water, energy, etc.) for lifespan of project.	Green House Gas study	Greenhouse gases	Air
Comparative technology emissions	Solar PV versus FF generation	GHG Emissions	Air

Table 7: Activities and aspects including the affected environment for the pre-construction phase of the amendment process.

PRE-CONSTRUCTION PHASE			
ACTIVITY	SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL DESCRIPTOR
N/A			

Table 8: Activities and aspects including the affected environment for the construction phase of the containerized battery storage and gas turbines (with associated fuel storage).

CONSTRUCTION PHASE			
ACTIVITY	SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL DESCRIPTOR
	Disturbing natural areas	TRANSFORMATION OF VEGETATION	Terrestrial & Avian
Operation of Plant, incl. transporting/driving	Emissions	GHG EMISSIONS	Air
Foundational footings	BESS & GENSET	EFFECTS ON STORMWATER RUNOFF	Ground and Surface Water

Table 9: Activities and aspects including the affected environment for the operational phase of the containerized battery storage and gas turbines (with associated fuel storage).

OPERATIONAL PHASE		
ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL DESCRIPTOR
Transport of fuel	GHG EMISSIONS	Air
Maintenance of GEN-SET	MAINTENANCE IMPACTS	People & Property
Gas turbine operations	GHG EMISSIONS	Air
Battery Storage	SOIL CONTAMINATION	Soil and Rock
Generation of solid and liquid waste	BATTERY MANAGEMENT	Public Services
Fuel storage	SOIL CONTAMINATION	Soil and Rock
Consumption of resources (energy, water & fuel)	USE OF NON-RENEWABLE RESOURCES	Public Services

Table 10: Activities and aspects including the affected environment for the decommissioning phase of the containerized battery storage and gas turbines (with associated fuel storage).

DECOMMISSIONING PHASE		
ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL DESCRIPTOR
Decommissioning at end of life of plant	GHG Emissions	Air

IDENTIFICATION OF ACTUAL AND POTENTIAL IMPACTS

The impacts are considered within the scope implicit within the amended activities. The relevant impacts resulting from the actual and associated activities, including environmental, socio-economic and cultural heritage, were determined using a Leipold Matrix, comments received from Interested & Affected Parties (Table 11), and, where applicable, the findings contained in specialist studies (Figure 2).

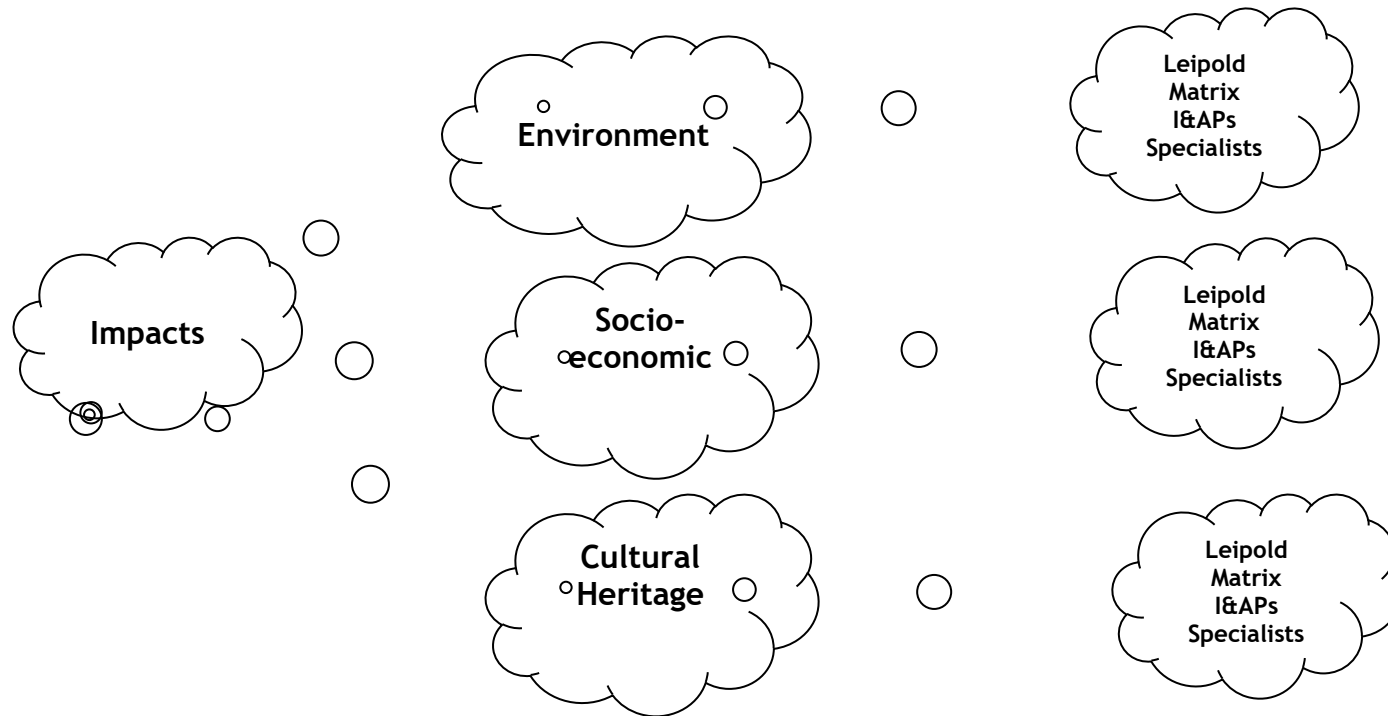


Figure 2. A breakdown of the different types of impacts including the resources used to identify them.

Table 11: Identification of potential impacts from registered Interested and Affected Parties (I&APs) as per Appendix 3 (h)(iii) “a summary of the issues raised by interested and affected parties, and an indication of the manner in which the issues were incorporated, or the reasons for not including them”.

I&APs			
ACTIVITY	SUB-ACTIVITY	ENVIRONMENTAL ASPECT & IMPACT	ENVIRONMENTAL DESCRIPTOR
No issues raised.			

Methodology for Assessing Environmental Aspects & Impacts

Requirement of Appendix 3, Regulation 3 (1)(h)(vi): “the methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks;”

Natural environmental, socio-economic, and cultural heritage impacts were assessed using the approach outlined below. Natural environmental, socio-economic, and cultural heritage impacts were identified systematically by considering how the site-specific activities for each phase of development will interact with all elements of the receiving environment. All impacts, including those identified by I&APs and Specialists, will be measured against the current land-use activity (the no-go option / option of not implementing the activity) and systematically assessed by rating a suite of criteria (Tables 12, 13, 14 & 15) informed and adapted from the Department of Environmental Affairs and Tourism (DEAT 2002). The criteria are:

- Extent or spatial scale,
- Intensity or severity of the impact,
- Duration of the impact,
- Probability of the impact,
- Mitigatory potential,
- Social acceptability,
- Degree of certainty,
- Status of the impact, and
- Legal requirements.

The magnitude and significance of impacts were determined by describing the impacts in terms of the above criteria. The criteria provide a consistent and systematic basis for the comparison and application of judgements.

The suite of criteria was sought for its applicability to EIA, specifically by making provision for the variety of perspectives. Significance is an anthropocentric concept that makes use of value judgements and science-based criteria. Judgement and values are used to greater extent in EIA than science-based criteria and standards (DEAT 2002). Considering value judgements can vary greatly amongst different stakeholders, professional judgement, such as that of the EAP, should ideally be used in conjunction with the different value judgements expressed by various stakeholders. In other words, significance should be communicated from a variety of perspectives other than the professional opinion of a multidisciplinary study team, and include environmental, socio-economic or cultural attributes perceived by society to be significant. Despite the potential variety of perspectives, they can be categorized into three broad forms of recognition for determination of impact significance, namely institutional (laws, plans or policy statements), public and technical (scientific or technical knowledge or judgement of critical resource characteristics) (DEAT 2002). Consequently, the magnitude and significance of impacts were as far as possible determined by reference to legal requirements, accepted scientific standards and / or social acceptability.

Table 12: Impact Evaluation Criteria, Ratings and Descriptors.

Assessment criteria for the evaluation of impacts		
CRITERIA	CATEGORY	DESCRIPTION
Extent or spatial influence of impact	National	Within the country
	Regional	Within the province/ recognised region
	Local	On site or within 1000 m of the impact site
		Along the alignment and within 500m of the line on each side
		Within the immediate and operational Area
Magnitude of impact (at the indicated spatial scale)	High	Social and / or natural functions and / or processes are severely altered
	Medium	Social and / or natural functions and / or processes are notably altered
	Low	Social and / or natural functions and / or processes are slightly altered

	Very Low	Social and / or natural functions and / or processes are negligibly altered
	Zero	Social and / or natural functions and / or processes remain unaltered
Duration of impact	Short term	Construction period
	Medium Term	Up to 10 years after construction
	Long Term	More than 10 years after construction
*NOTE: Where applicable, the magnitude of the impact must be related to the relevant standard (threshold value specified, and source referenced).		

Definition of significance:

The “significance” of an impact is derived by considering the temporal and spatial scales and magnitude. Such significance is also informed by the context of the impact, i.e. the character and identity of the receptor of the impact. The means of arriving at the different significance ratings is explained in the following table, developed as a means of minimizing subjectivity in such evaluations, i.e. to allow for replicability in the determination of significance.

Table 13: Significance ratings with associated criteria.

SIGNIFICANCE RATINGS	LEVEL OF CRITERIA REQUIRED
High	High magnitude with a regional extent and long-term duration
	High magnitude with either a regional extent and medium-term duration or a local extent and long-term duration
	Medium magnitude with a regional extent and long-term duration
Medium	High magnitude with a local extent and medium-term duration
	High magnitude with a regional extent and construction period or a site-specific extent and long-term duration
	High magnitude with either a local extent and construction period duration or a site-specific extent and medium-term duration
	Medium magnitude with any combination of extent and duration except site specific and construction period or regional and long term
	Low magnitude with a regional extent and long-term duration

Low	High magnitude with a site-specific extent and construction period duration
	Medium magnitude with a site-specific extent and construction period duration
	Low magnitude with any combination of extent and duration except site specific and construction period or regional and long term
	Very low magnitude with a regional extent and long-term duration
Very low	Low magnitude with a site-specific extent and construction period duration
	Very low magnitude with any combination of extent and duration except regional and long term
Neutral	Zero magnitude with any combination of extent and duration

Table 14: Risk Rating categories and matrix.

EXTENT	MAGNITUDE	DURATION	COMBINED	RISK RATING
Local	High	Long Term	Local High Long Term	High
Local	High	Medium Term	Local High Medium Term	Medium
Local	High	Short term	Local High Short Term	Low
Local	Low	Long Term	Local Low Long Term	Low
Local	Low	Medium Term	Local Low Medium Term	Low
Local	Low	Short term	Local Low Short Term	Very Low
Local	Medium	Long Term	Local Medium Long Term	Medium
Local	Medium	Medium Term	Local Medium Medium Term	Medium
Local	Medium	Short term	Local Medium Short Term	Low
Local	Very Low	Long Term	Local Very Low Long Term	Low
Local	Very Low	Medium Term	Local Very Low Medium Term	Very Low
Local	Very Low	Short term	Local Very Low Short Term	Very Low
Local	Zero	Long Term	Local Zero Long Term	Neutral
Local	Zero	Medium Term	Local Zero Medium Term	Neutral
Local	Zero	Short term	Local Zero Short Term	Neutral

National	High	Long Term	National High Long Term	High
National	High	Medium Term	National High Medium Term	High
National	High	Short term	National High Short Term	High
National	Low	Long Term	National Low Long Term	Medium
National	Low	Medium Term	National Low Medium Term	Low
National	Low	Short term	National Low Short Term	Low
National	Medium	Long Term	National Medium Long Term	Medium
National	Medium	Medium Term	National Medium Medium Term	Medium
National	Medium	Short term	National Medium Short Term	Medium
National	Very Low	Long Term	National Very Low Long Term	Medium
National	Very Low	Medium Term	National Very Low Medium Term	Very Low
National	Very Low	Short term	National Very Low Short Term	Very Low
National	Zero	Long Term	National Zero Long Term	Neutral
National	Zero	Medium Term	National Zero Medium Term	Neutral
National	Zero	Short term	National Zero Short Term	Neutral
Regional	High	Long Term	Regional High Long Term	High
Regional	High	Medium Term	Regional High Medium Term	High
Regional	High	Short term	Regional High Short Term	Medium
Regional	Low	Long Term	Regional Low Long Term	Low
Regional	Low	Medium Term	Regional Low Medium Term	Low
Regional	Low	Short term	Regional Low Short Term	Low
Regional	Medium	Long Term	Regional Medium Long Term	High
Regional	Medium	Medium Term	Regional Medium Medium Term	Medium
Regional	Medium	Short term	Regional Medium Short Term	Medium
Regional	Very Low	Long Term	Regional Very Low Long Term	Low
Regional	Very Low	Medium Term	Regional Very Low Medium Term	Low

Regional	Very Low	Short term	Regional Very Low Short Term	Very Low
Regional	Zero	Long Term	Regional Zero Long Term	Neutral
Regional	Zero	Medium Term	Regional Zero Medium Term	Neutral
Regional	Zero	Short term	Regional Zero Short Term	Neutral

Table 15: Mitigatory potential.

Criteria	Ratings and Descriptors			
	High (4)	Moderate (3)	Low (2)	No Impact (1)
Mitigatory Potential	High potential to mitigate and achieve objectives.	There is a moderate potential to mitigate and achieve objectives.	There is a potential to mitigate, but there remains a risk of the objectives not being met.	No mechanism for mitigation and achieving the objectives.
Acceptability	Unacceptable Abandon project or design.	Manageable with expensive regulatory controls and the project proponent's commitments.	Some risk to public health / environment, but it is easily averted using simple controls / mitigations.	Acceptable. No risk to public health / environment.
	Definite (D- 4)	Probable (P -3)	Improbable (I-2)	No Impact (N-1)
Degree of Certainty / Probability of the impact occurring	Substantial supportive data. Impact will occur regardless of preventive measures. High probability. >95%.	There is a chance / risk of the impact occurring. Moderate probability. 5-95%.	It is unlikely that the impact will occur. Low probability. <5%.	The impact will not occur. 0%.

Cumulative Effects

A guide prepared for the Canadian Environmental Assessment Agency (CEAA) (Hegmann *et al.* 1999) defined cumulative effects as: "...changes to the environment that are caused by an action in combination with other past, present and future human actions."

Cumulative effects are commonly understood as the impacts which combine from different projects and which result in significant change, which is larger than the sum of all the impacts. (DEAT (2004) Cumulative Effects Assessment, Integrated Environmental Management, Information Series 7, Department of Environmental Affairs and Tourism (DEAT), Pretoria)

Cumulative effects can then occur when impacts are:

- (1) additive (incremental);
- (2) interactive;
- (3) sequential; or
- (4) synergistic.

Eccles *et al.* (1994) summarises the essence of cumulative environmental change as follows: "Where the intensity of development remains low, the impacts can be assimilated by the environment over time, and cumulative effects do not become a significant issue. However, when development reaches a high level of intensity, impacts cannot be assimilated rapidly enough by the environment to prevent an incremental build-up of these impacts over time. Changes over time and space accumulate and compound so that in aggregate the effect exceeds the simple sum of previous changes. This temporal and spatial accumulation gradually alters the structure and functioning of environmental systems, and subsequently affects human activities."

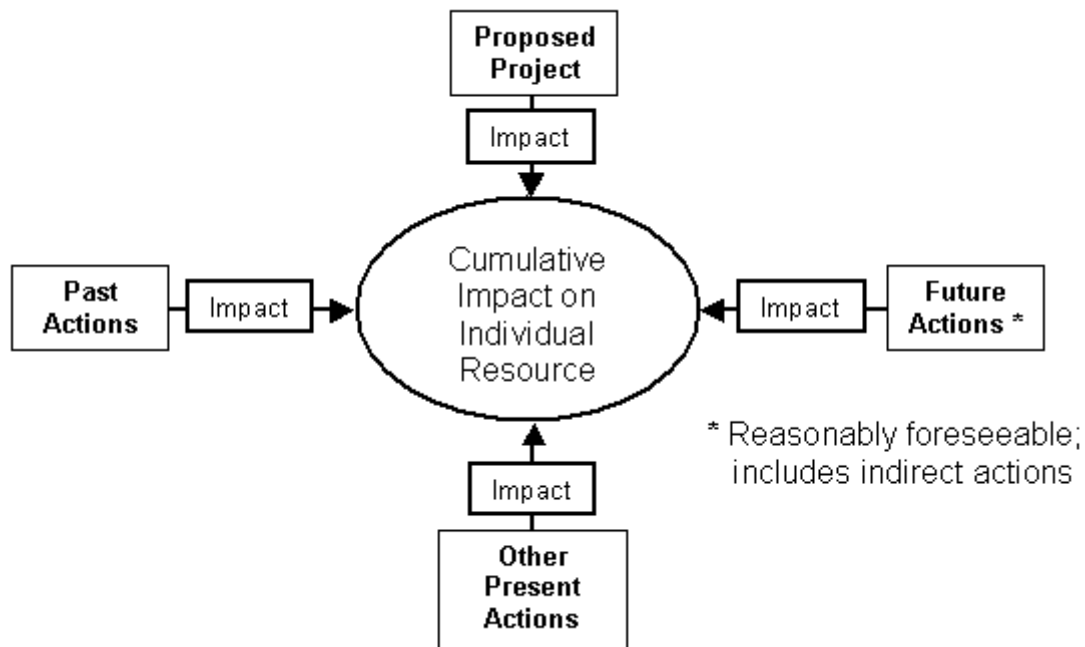


Figure 3. A flow diagram showing the compounding effects of cumulative impacts on a resource.

The assessment would need to identify and investigate the potential cumulative effects of the proposed development taking into consideration the types and characteristics of aggregate effects. These can be fragmentation, compounding effects, indirect effects, triggers and thresholds.

Planning to address cumulative effects involves delineating spatial and temporal boundaries, determining future development and determining the significance of cumulative impacts. The commonly adopted method to identify and assess cumulative effects is via Geographic Information Systems (GIS). This computer tool uses powerful mapping and spatial information for capturing, displaying and analysing digital data. Map overlays have been used to identify areas where effects are likely to be greatest.

The assessment of sensitive receptor information can be used to form a consolidated “no-go” area map from a geographical, physical, biological, social, economic, heritage and cultural aspects.

This exercise used the method of bio-geographical analysis, including landscape analysis looking at patterns, structure and ecological process within a spatial unit. There was also the carrying capacity analysis which identifies thresholds as constraints to development, in the ecological context, carrying capacity is defined as the threshold below which ecosystem functions can be sustained.

The additional method to identify potential cumulative impacts includes the checklist technique in which potential cumulative impacts can be identified by using a list of common or likely effects.

The other pathway within cumulative impacts of a proposed development could be the compounding effect from one or more processes. The method of interactive matrices involves analysis of the additive and interactive effects of various configurations of multiple similar projects in the same geographic area. Due to the large number of developments in the broader area, there is potential for cumulative impact to generate additional impacts on broad-scale ecological processes and the countries’ ability to meet conservation targets.

The cumulative impacts are considered insignificant for this project as the inclusion of the additional activities within the scope of the Part 2 amendment are spatially constrained and result in very low impacts individually, collectively and regionally.

ASSESSMENT OF ASPECTS & IMPACTS

The identified actual and potential Impacts, comments received from I&APs and findings contained in specialist assessments, are segregated amongst the different phases of implementation (planning and design, pre-construction, construction, operation and decommissioning) so that they can be logically managed /mitigated for by the responsible role players at the appropriate time.

DEVELOPMENT PHASES

Table 16: Average significance across aspects associated with negative impacts assessed for each development phase associated with the amendments.

ENTIRE PHASE	EXTENT	MAGNITUDE	DURATION	SIGNIFICANCE	PROBABILITY
PLANNING	Local	Very Low	Medium Term	Low Very	Probable
PRE-CONSTRUCTION	N/A				
CONSTRUCTION	Local	Very Low	Medium Term	Very Low	Definite
OPERATIONAL	Local	Very Low	Long Term	Low	Definite
DECOMMISSIONING	Local	Very Low	Short-Term	Very Low	Definite

Table 17: Significance across aspects associated with impacts assessed for each development phase associated with the amendment activities. Aspects highlighted in “Green” resulted in positive impacts.

Planning & Design	Pre-Construction	Construction	Operation	Decommissioning
Entire Phase				
Very Low		Low	Low	Very Low
Compliance Management				
POTENTIAL OFFENCES				
Integrated Water Resource Management				

		EFFECTS ON STORMWATER RUNOFF		
Biodiversity Management				
		TRANSFORMATION OF VEGETATION		
Air Quality Management				
GREENHOUSE GASES		GHG EMISSIONS	GHG EMISSIONS	GHG Emissions
GHG EMISSIONS				
Resource Use & Management				
			MAINTENANCE IMPACTS	
			SOIL CONTAMINATION	
			BATTERY MANAGEMENT	
			USE OF NON- RENEWABLE RESOURCES	
Heritage Resource Management				

PLANNING AND DESIGN PHASE

Table 18: Median of extent, magnitude, duration, significance and probability for negative & positive (highlighted in green) impacts associated with the planning & design phase.

ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	ENVIRONMENTAL DESCRIPTOR	IMPACT ASSESSMENT CRITERIA					DEGREE OF IMPACTS AND MANAGEMENT			
				EXTENT	MAGNITUDE	DURATION	SIGNIFICANCE	PROBABILITY	REV	IRR	MIT	MON
Legal-acquiring Authorisations, permits and/or licences for activities/uses undertaken during construction and operation.	POTENTIAL OFFENCES	Part 2 amendment must be approved prior to implementation of expansion of project scope to include containerised battery storage, gas turbines (with associated fuel storage)	Legal	Local	Very Low	Short-Term	Very Low	Improbable		X	X	
Sustainable resource requirements (water, energy, etc.) for lifespan of project.	GREENHOUSE GASES	GHG study required to assess Climate Change implications of gas turbines	Air	Local	Very Low	Long Term	Low	Probable	X		X	X
Comparative technology emissions	GHG EMISSIONS	The energy sector is the largest contributor with 79.5% or 429 907 Gg CO2e of the	Air	National	High	Long term	High	Probable	X			

		total gross emissions for South Africa. This recent increase highlights the need for IPPs to produce renewable energy to mitigate the GHG emissions from the growing needs of the country.											
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Degree of Impact & Mitigation Measures legend: (addressing requirement of Appendix 2, Regulation 2. (1) (v) (aa) – (cc))

REV = Impact is reversible

IRR = Irreplaceable loss of resources

AV = Avoid

MAN = Manage

MIT = Mitigate

MON = Monitoring (can be informally or formally monitored)

Uncertainties & limitations with predicting the impacts

- None.

Assumptions made when assessing the impact

- The scope of the amendments does not involve any Listed Activities additional to those that are already authorised in the EA.
- All specialists involved in the baseline EIA, have signed a declaration indicating whether the scope of the amendments requires additional inputs from their discipline.

- An additional specialist study was undertaken on Greenhouse Gas (GHG) emissions to *inter alia* quantify the CO₂e savings the solar PV facility will provide in comparison to Fossil Fuel (FF) generation as well as the additional GHGs that will result from the operation of the Gas Turbines. The reporting of GHG emissions has in South Africa previously been inconsistent with earlier iterations lacking inventory accuracy and completeness due to the application of lower-tier methods resulting from the unavailability of disaggregated activity data, lack of well-defined institutional arrangements, and absence of legal and formal procedures for the compilation of GHG emission inventories. However, South Africa has recently developed a National GHG Inventory Management System and the National Atmospheric Emissions Inventory System to manage and simplify its climate change obligations to the United Nations Framework Convention on Climate Change (UNFCCC) process. These processes gather activity data and associated emission factors, model the GHG contribution of all sectors to serve as input for the national inventory reporting process, were not available. In the absence of the improved, yet unavailable indices, it is assumed that the secondary indices used are sufficiently accurate.

Table 19: Mitigatory potential assessment.

Mitigation Action	Probability	Acceptability	Status	Mitigation potential (to meet objectives)
Without	4	3	Negative	L
With	2	2	Positive	H
No-Go	1	1	Neutral	N/A

Mitigations:

Objective(s) (including targets):

- Comply with all relevant legislation, regulations, ordinances, and by-laws.
- Ensure all planning approvals are in place prior to commencement of construction.
- Inform ultimate design criteria to reduce impact on the receiving environment.

Table 20: Mitigation table including responsible party.

Type of mitigation	Responsible party	Mitigation
Avoidance	Applicant	The applicant shall be guilty of an offence and upon conviction liable to a fine and / or imprisonment if the expanded scope commences without an approved Part 2 amended EA, issued by the DEFF.
Avoidance	Applicant	The Gas Turbine generation design capacity may not exceed 10MW.
Avoidance	Applicant	The above-ground diesel storage facility may not exceed 30m ³ in capacity and as the site is located within an Identified Geographical Area (IGA) in Listing Notice 3 of the EIA Regulations (2014) as amended.
Reduction	Applicant	Ensure the specification of the GENSETs includes noise dampeners to reduce noise emissions.
Avoidance	Applicant	Endeavour to ensure that the design of the Battery containers are suitably banded to effectively contain any accidental leakages.

PRE-CONSTRUCTION PHASE

There were no perceived impacts associated with the pre-construction phase.

CONSTRUCTION PHASE

Table 21: Extent, magnitude, duration, significance and probability for negative impacts associated with activities restricted to the scope of the amendment for the construction phase.

ACTIVITY	SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	ENVIRONMENTAL DESCRIPTOR	IMPACT ASSESSMENT CRITERIA					DEGREE OF IMPACTS AND MANAGEMENT			
					EXTENT	MAGNITUDE	DURATION	SIGNIFICANCE	PROBABILITY	REV	IRR	MIT	MON

Clearing/Grubbing and Grading	Disturbing natural areas	TRANSFORMATION OF VEGETATION	The shading effect of above-ground containers will limit vegetation growth and cover.	Terrestrial & Avian	Local	Very Low	Long Term	Low	Probable	X			
Operation of Plant, incl. transporting / driving	Emissions	GHG EMISSIONS	Emissions produced as a result of transport of BESS & GEN-SETs to site	Air	Local	Very Low	Short-Term	Very Low	Definite				
Foundational footings	BESS & GENSET	EFFECTS ON STORMWATER RUNOFF	The erection of containerised BESS & GENSET on concrete plinths will limit the diversion of stormwater runoff	Ground and Surface Water	Local	Low	Long Term	Low	Definite			X	X

Mitigation Measures legend: (addressing requirement of Appendix 2, Regulation 2. (1) (v) (aa) – (cc))

REV = Impact is reversible

IRR = Irreplaceable loss of resources

AV = Avoid

MAN = Manage

MIT = Mitigate

MON = Monitoring (can be informally or formally monitored)

Uncertainties & limitations with predicting this impact

- The impact assessment is only associated with the construction associated with the expanded scope in the amendment.
- The aspects and impacts identified are not exhaustive but capture the key components of the amendment activities.

Assumptions made when assessing the impact

- The impacts identified for the full project scope will capture the broader environmental impacts over and above those identified for the expanded scope activities.

Table 22: Mitigatory potential assessment.

Mitigation Action	Probability	Acceptability	Status	Mitigation potential (to meet objectives)
Without	4	3	Negative	L
With	2	1	Positive	H
No-Go	1	1	Neutral	N/A

Mitigations:

Objective(s) (including targets):

- To reduce impacts on the hydrology of stormwater runoff and resultant erosion.

Table 23: Mitigation table including responsible party.

Type of mitigation	Responsible party	Mitigation
Avoidance	Contractor Applicant	The foundational footings provided for the BESS & GENSETS containers should as far as practicable, allow for unimpeded stormwater runoff e.g. containers to be positioned on concrete plinths.

Avoidance	Contractor Applicant	The vegetation beneath the containerised batteries and gas turbines will likely die back due to shading, exposing the soil to potential runoff induced erosion. Suitable measures must be installed to stabilise the affected soil and suitably remediate any sign of erosion at its onset.
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OPERATIONAL PHASE

Table 24: Extent, magnitude, duration, significance and probability for negative impacts associated with activities restricted to the scope of the amendment for the operational phase.

ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	ENVIRONMENTAL DESCRIPTOR	IMPACT ASSESSMENT CRITERIA					MITIGATION MEASURES			
				EXTENT	MAGNITUDE	DURATION	SIGNIFICANCE	PROBABILITY	REV	IRR	MIT	MON
Transport of fuel	GHG EMISSIONS	Generation of CO2e as a result of transporting fuel to the site for the GEN-SET	Air	Local	Very Low	Medium Term	Very Low	Definite		X		
Maintenance of GEN-SET	MAINTENANCE IMPACTS	Utilisation of sundaries & mechanics for the normal maintainance of the GEN-SET	People & Property	Local	Very Low	Medium Term	Very Low	Definite			X	
Gas turbine operations	GHG EMISSIONS	The generation of emissions (GHG & Noise) from the GEN-SET when augmenting the PV production	Air	Regional	Low	Long Term	Low	Definite			X	X

Battery Storage	SOIL CONTAMINATION	Incorrect storage & containment of batteries can lead to damage and leaking of battery acid and other chemicals leading to soil contamination.	Soil and Rock	Local	Very Low	Short-Term	Very Low	Improbable	X		X	X
Generation of solid and liquid waste	BATTERY MANAGEMENT	Additional waste management impacts associated with recycling of depleted batteries. Battery life is expected to be in the region of 20-years	Public Services	National	Low	Long Term	Medium	Probable			X	
Fuel storage	SOIL CONTAMINATION	Incorrect storage of Diesel can lead to soil contamination. Incorrect storage of Gas Turbine engine oil or coolants can lead to damage and leaking of hydrocarbons and other chemicals leading to soil contamination.	Soil and Rock	Local	Medium	Long Term	Medium	Probable			X	

Consumption of resources (energy, water & fuel)	USE OF NON-RENEWABLE RESOURCES	Depletion of non-renewable resources i.e. Diesel.	Public Services	Regional	Low	Long Term	Low	Definite	X			
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Mitigation Measures legend: (addressing requirement of Appendix 2, Regulation 2. (1) (v) (aa) – (cc))

REV = Impact is reversible

IRR = Irreplaceable loss of resources

AV = Avoid

MAN = Manage

MIT = Mitigate

MON = Monitoring (can be informally or formally monitored)

Uncertainties & limitations with predicting this impact

- The full scope of potential environmental impacts associated with the BESS & Gas Turbine technologies is likely not exhaustive.

Assumptions made when assessing the impact

- The technical information provided on the BESS & GENSETs provides adequate information to properly inform the identification of associated aspects and impacts.

Table 25: Mitigatory potential assessment.

Mitigation Action	Probability	Acceptability	Status	Mitigation potential (to meet objectives)
Without	4	3	Negative	L
With	2	1	Positive	H
No-Go	1	1	Neutral	N/A

Mitigations:

Objective(s) (including targets):

- To ensure the operations are sustainably managed.

Table 26: Mitigation table including responsible party.

Type of mitigation	Responsible party	Mitigation
Reduction	Applicant	Ensure that noise emissions from the operation of the GENSETs are monitored and remain within acceptable limits.
Avoidance	Applicant	Battery housing must adequately contain any accidental leakages and not allow for leakage onto the ground beneath.
Reduction	Applicant	Depleted or malfunctioning batteries must be suitably disposed of.
Avoidance	Applicant	Maintenance equipment, including chemicals, lubricants, coolants etc. must be stored in accordance with the Occupational Health & Safety Act and be suitably contained/bunded that they pose no risk of leakage and contamination of the receiving environment.
Reduction Remediation	Applicant	Supply and delivery of diesel into the above-ground storage tanks must be governed by an SOP that ensures the safe transfer of the product including minimising & remediation of spillages.
Avoidance	Applicant	The above-ground storage of diesel must be suitably bunded to 110% of its content and covered with a roof to avoid rainwater ingress.
Avoidance	Applicant	The above-ground storage of diesel may require a permit from the local fire chief in accordance with local bylaws.

DECOMMISSIONING PHASE

Table 27: Median of extent, magnitude, duration, significance and probability for negative & positive impacts associated with the decommissioning phase.

ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	ENVIRONMENTAL DESCRIPTOR	IMPACT ASSESSMENT CRITERIA					MITIGATION MEASURES			
				EXTENT	MAGNITUDE	DURATION	SIGNIFICANCE	PROBABILITY	REV	IRR	MIT	MON

Decommissioning at end of life of plant	GHG Emissions	Generation of CO2e as a result of removing the GEN-SET from site	Air	Local	Very Low	Short-Term	Very Low	Definite			X	
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Mitigation Measures legend: (addressing requirement of Appendix 2, Regulation 2. (1) (v) (aa) – (cc))

REV = Impact is reversible

IRR = Irreplaceable loss of resources

AV = Avoid

MAN = Manage

MIT = Mitigate

MON = Monitoring (can be informally or formally monitored)

Uncertainties & limitations with predicting this impact

- It is unknown if the plant will ever undergo decommissioning as energy generation continues to transition to renewable resources.

Assumptions made when assessing the impact

- None.

Table 28: Mitigatory potential assessment.

Mitigation Action	Probability	Acceptability	Status	Mitigation potential (to meet objectives)
Without	4	3	Negative	L
With	2	1	Positive	H
No-go	1	1	Neutral	N/A

Mitigations:

Objective(s) (including targets):

- To mitigate impacts in the unlikely event of decommissioning.

Table 29: Mitigation table including responsible authority.

Type of mitigation	Responsible authority	Mitigation
Reduction	Applicant	Novel measures must be sought to reduce the carbon footprint of decommissioning activities.

Cumulative impact assessment

No cumulative impacts associated with the scope of the amendment activities were determined.

SECTION II: ADVANTAGES AND DISADVANTAGES ASSOCIATED WITH THE PROPOSED CHANGE

Advantages and disadvantages of battery storage and gas turbine generation

Combined Heat and Power generation, also known as cogeneration, is a highly efficient power generation process, which utilises approximately 90% of the energy contained in a gaseous fuel. Using heat exchangers, the high efficiency is reached by harvesting the mechanical energy from the generator and the thermal energy from the combustion process. The harvested heat can also be converted into cooling for refrigeration.

Generators sets or “Genset” units provide energy either as a main source of energy or as a supplementary power source. In this instance, they will be supplementary to the PV and battery back in place and will be used when PV generation is diminished, and battery backups are depleted.

The dispatchable power project will include a minor thermal generation component, consisting of diesel generator sets. These will supplement the power requirement as back-up during the 15-day project reliability run only. The diesel generators will have limited deployment after commissioning of the project, with limited fuel consumed during operation.

The skid-mounted generator units will be located in a single designated area, alongside the Project Substation. A total of nine (9) generator sets will be installed, each with a rated power output of 1 000 kW. Each unit contains an engine, alternator, cooling system, fuel tank and fuel injection system, induction system, lubrication system and a control panel, all within a folded sheet-metal housing, and an overhead exhaust with a residential-type silencer.

The generator sets are certified according to the following international standards:

- IEC 60034-1
- EN 61000-6-2 Criteria B
- BS 5000-3
- ISO 8528-3
- AS 1359

The engines will burn high-speed diesel fuel. The fuel will be delivered to site before the reliability run commences. The fuel tank in each generator set has a total capacity of 990 litres. Additional fuel will be stored on site in above-ground fuel storage tanks which are compliant with the relevant OHS requirements and are constructed according to SANS 310:2011 (Ed. 1.00). The storage capacity of these tanks will be below the 30m³ EIA Regulations (2014) Listed Activity, as amended.

Table 30. Advantages and disadvantages of various gas turbine fuel sources.

FACTOR	LNG	LPG	DIESEL
AVAILABILITY OF FUEL	<ul style="list-style-type: none"> - There is currently no existing supply of LNG locally. - Detailed discussions were held with various 	<ul style="list-style-type: none"> - RFP for fuel supply issued to: <ul style="list-style-type: none"> o Totalgaz o EASIGAS o Afrox o Easigas 	<ul style="list-style-type: none"> - Readily available in the open market. ⇒ No specific requirements or minimum order

	<p>local gas suppliers and consultants, including:</p> <ul style="list-style-type: none"> o VITOL o FFS Refiners o Value Chain Construct <p>- A new LNG supply from Coega Port was investigated by a number of interested stakeholders, via a bridging solution for RMIPPP projects in particular.</p> <p>- The proposed bridging solution would create a virtual pipeline from large-scale LNG carrier ships at sea, to floating storage units, to LNG barges, to trucks via skid-to-berth offloading.</p> <p>- This solution was not approved by Transnet National Ports Authority.</p> <p>⇒ No available solution for fuel supply, not even just for the commissioning (Reliability Run).</p>	<p>⇒ No useful response obtained.</p> <ul style="list-style-type: none"> - Detailed discussions with VITOL: <ul style="list-style-type: none"> o The issue is the specifications on gas available on the local market. o Currently, LPG in RSA is for domestic use only, and consists predominantly of butane. o For power generation LPG must be composed of predominantly propane, i.e. HD-5 quality. o A dedicated import could only be guaranteed if another larger project was awarded. <p>⇒ No available solution for fuel supply, not even just for the commissioning (Reliability Run).</p>	<p>volumes, especially if only to be used for commissioning (Reliability Run)</p>
<p>ENGINE CONSIDERATIONS</p>	<ul style="list-style-type: none"> - Suitable models: <ul style="list-style-type: none"> o Rolls Royce MTU 16V4000 o GS L64FNER - Available engines are only capable of burning LNG fuel. 	<ul style="list-style-type: none"> - Suitable models: <ul style="list-style-type: none"> o Wärtsilä 20V34SG-LPG / 34LPGA / 50LPGA o Jenbacher J420 - Output: will have derating of 60-75% of nameplate capacity, due to 	<ul style="list-style-type: none"> - Suitable models: <ul style="list-style-type: none"> o Perkins 4012-46TAG1A o Cummins QSK95 - Available diesel engines are capable of burning LPG or LNG, with

		<p>sub-optimal composition of LPG as fuel for combustion engines.</p> <ul style="list-style-type: none"> - Available engines are only capable of burning LPG or LNG. 	<p>some minor modifications.</p>
TIMELINE	<ul style="list-style-type: none"> - 4-month lead time on engines, 4-month installation period (low risk). 	<ul style="list-style-type: none"> - 10-month lead time on engines, 4-month installation period (medium risk). 	<ul style="list-style-type: none"> - 3-month lead time on engines, 2-month installation period (low risk).
INTEGRATION	<ul style="list-style-type: none"> - Very high integration risk due to unproven track record of technology locally and lack of experience of EPC contractors with this technology. 	<ul style="list-style-type: none"> - High integration risk due to lack of experience of EPC contractors with this technology. 	<ul style="list-style-type: none"> - Minimal integration risk due to proven track record of technology locally and EPC contractor in-house expertise with these engines.
CAPEX CONSIDERATIONS	<ul style="list-style-type: none"> - Containerised, skid-mounted engines, including fuel system (regasification) and balance-of-system: 12.5 ZAR/W 	<ul style="list-style-type: none"> - Containerised, skid-mounted engines, including fuel system (regasification) and balance-of-system: 15.5 ZAR/W 	<ul style="list-style-type: none"> - Containerised, skid-mounted engines, including fuel system and balance-of-system: 11.5 ZAR/W
OPEX CONSIDERATIONS	<ul style="list-style-type: none"> - Maintenance: 0.12 ZAR/kWh - Fuel: 2.8 ZAR/kWh 	<ul style="list-style-type: none"> - Maintenance: 0.15 ZAR/kWh - Fuel: Not available 	<ul style="list-style-type: none"> - Maintenance: 0.08 ZAR/kWh - Fuel: 3.6 ZAR/kWh
ESTIMATED IMPACT ON TARIFF*	+2.0%	+4.5%	0.0%
CONCLUSIONS	Not practical or feasible.	Not practical or feasible.	Practical and feasible.

Advantages and disadvantages on Greenhouse Gas emissions

The energy sector is the largest contributor with 79.5% or 429 907 Gg CO_{2e} of the total gross emissions for South Africa. This sector is broken down further into energy generation industries (60.4%), transport (12.6%), other sectors (11.4%), and manufacturing industries and construction (8.6%). Since 2000 this sector has increased by 25.0% with the majority of the increase coming in the energy generation industry specifically. This recent increase highlights the need for IPPs to produce renewable energy to mitigate

the GHG emissions from the growing needs of the country while endeavouring to meet the UNFCCC GHG commitments.

PV shortfall generation assurance through augmentation by diesel generation is less efficient from a low emissions perspective than the at scale generation from Fossil Fuel (FF) generation. The diesel generators produce 54.57 and 71.95 (Diesel average biofuel blend and 100% mineral) additional kgCO₂e/MW/hour than the FF option. However, for each hour where the facilities are supplying the required capacity commitment through the PV cell or the battery banks, 648 kgCO₂e are mitigated.

The diesel Genset emissions are higher than the emissions from FF generation, it is therefore not a feasible option to replace FF generation in isolation. However, as diesel generator emissions are only between 8 and 11% higher per MW, it remains feasible from a GHG perspective to use diesel generators to augment the PV and battery bank commitment shortfall up to a maximum of ~90% commitment shortfall. A shortfall of this magnitude would, however, be extremely unlikely under normal operations. Reaching commitments above this threshold either through direct power from the PV or the battery bank will result in a net emissions benefit.

Advantages and disadvantages of the proposed amendments on achievement of the Sustainable Development Goals?

The 17 Sustainable Development Goals (SDGs) are a blueprint for developed and developing countries to combat global challenges from poverty (Goal 1) to climate action (Goal 13) and heal an ailing planet for the benefit of existing and future generations by 2030. They were prescribed in the 2030 Agenda for Sustainable Development, which was adopted by the General Assembly of the UN in September 2015.

The South African Constitution gives everyone the right to have the environment protected *'through reasonable legislative and other measures that secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development'*.

The 17 Sustainable Development Goals (SDGs) are listed below as well as the applicability of the project inclusive of the current amendments to the achievement of these goals.

GOAL 1: No Poverty; *End poverty in all its forms everywhere.*

GOAL 2: Zero Hunger; *End hunger, achieve food security and improved nutrition and promote sustainable agriculture.*

GOAL 3: Good Health and Well-being; *Ensure healthy lives & promote well-being for all at all stages.*

GOAL 4: Quality Education; *Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.*

GOAL 5: Gender Equality; *Achieve gender equality and empower all women and girls.*

GOAL 6: Clean Water and Sanitation; *Ensure availability and sustainable management of water and sanitation for all.*

GOAL 7: Affordable and Clean Energy; *Ensure access to affordable, reliable, sustainable and modern energy for all.*

GOAL 8: Decent Work and Economic Growth; *Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.*

GOAL 9: Industry, Innovation and Infrastructure; *Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.*

GOAL 10: Reduced Inequality; *Reduce inequality within and among countries.*

GOAL 11: Sustainable Cities and Communities; *Make cities and human settlements inclusive, safe, resilient and sustainable.*

GOAL 12: Sustainable Consumption and Production; *Ensure sustainable consumption and production patterns.*

GOAL 13: Climate Action; *Take urgent action to combat climate change and its impacts.*

GOAL 14: Life Below Water; *Conserve and sustainably use the oceans, seas and marine resources for sustainable development.*

GOAL 15: Life on Land; *Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.*

GOAL 16: Peace and Justice Strong Institutions.

GOAL 17: Partnerships to achieve the Goal.

GOAL 1: No Poverty

End poverty in all its forms everywhere. A sustainably managed environment is a prerequisite for socio-economic development and poverty reduction considering that ecosystem goods and services provide income, support job creation and alleviate poverty.

Applicability to the project:

The launching of the project will provide much needed additional employment opportunities in the area as well as improved long-term financial impetus.

GOAL 2: Zero Hunger

End hunger, achieve food security and improved nutrition and promote sustainable agriculture. Nature contributes to nutrition and food security by providing direct sources of food and ecosystem services necessary for agriculture, such as pollination, soil formation, nutrient cycling, and water regulation. Unsustainable agricultural practices undermine nature's capacity to provide ecosystem services by killing pollinators (through agrochemicals), eroding the soil, polluting the water (through fertilizers) and emitting greenhouse gases.

The goal aims by 2030, to double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers, pastoralists and fishers, including through

secure and equal access to land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment.

Applicability to the project:

The project will not contribute directly to the achievement of this goal.

GOAL 3: Good Health and Well-being

Ensure healthy lives & promote well-being for all at all stages. A clean environment, that is free of water and air pollution, poorly managed hazardous chemicals and waste, is essential for human health and well-being. The goal *inter alia* aims to strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol as well as ensure universal access to sexual and reproductive health-care services, including for family planning, information and education, and the integration of reproductive health into national strategies and programmes.

Applicability to the project:

The increased disposable income of local community members that will be derived from employment opportunities, will help ensure their ability to *inter alia* access better health care and nutrition. A financially healthy local economy will also help alleviate many of the societal woes plaguing many impoverished communities.

GOAL 4: Quality Education

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. Quality education is needed to secure decent jobs, alleviate poverty and build the capacity (number of educated people) to drive economic growth. Education, including public awareness and training, is also a powerful tool for promoting sustainable development and creating green jobs or industries that address environmental and development issues. The goal further aims to ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes through the development phases to ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development.

Applicability to the project:

The increased disposable income of local community members, that will be derived from employment opportunities, will help ensure access of the youth to education. Additionally, the cumulative impact of rolling out several renewable energy projects in the area, will become and remain an important economic driver in area which will have a positive spin-off on the availability and quality of educational facilities.

GOAL 5: Gender Equality

Achieve gender equality and empower all women and girls. Enhancing property rights and access to land and natural resources to women can improve their livelihood options and poverty status.

Applicability to the project:

The expected work force both during construction and operation will include a cross-section of society which will include meaningful opportunities for women.

GOAL 6: Clean Water and Sanitation

Ensure availability and sustainable management of water and sanitation for all. Sanitation, specifically the adequate treatment and disposal of sewage, and the protection or restoration of water-related ecosystems and their biodiversity can ensure the maintenance of water purification and quality standards. Improving water management will enhance resilience against water shortages and contribute to a growing demand without increasing withdrawals. Conversely excessive withdrawals and wastage will be detrimental to other water users, including aquatic ecosystems.

Applicability to the project:

Several mechanisms will be implemented by this project to ensure that surrounding and/or adjacent water resources will not be negatively affected by any of the project activities.

GOAL 7: Affordable and Clean Energy

Ensure access to affordable, reliable, sustainable and modern energy for all. Energy is the dominant contributor to climate change, accounting for around 60% of total global greenhouse gas emissions (<https://www.unenvironment.org/explore-topics/sustainable-development-goals/why-do-sustainable-development-goals-matter/goal-7>). The natural environment provides a series of renewable and non-renewable energy sources, such as solar, wind, hydropower, geothermal, biofuels, natural gas, coal, petroleum and uranium. The increased use of renewables (as opposed to non-renewable fossil-fuels) and improved energy efficiency will contribute to climate change mitigation and disaster risk reduction (e.g. droughts and flooding). Furthermore, the maintenance and protection of ecosystems will support the use and further development of hydropower sources of electricity and bioenergy.

Applicability to the project:

This project will directly assist in the achievement of this sustainable development goal. The energy generated will be fed into the national grid as part of the country's commitment to transition to a low carbon economy and meet the UNFCCC GHG commitments.

GOAL 8: Decent Work and Economic Growth

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all. Preserving the environment is key to support sustainable economic growth. The natural environment plays an important role in supporting economic activities directly, by providing resources and raw materials such as water, timber and minerals that are required as inputs for the production of goods and services, and indirectly, through the provision of ecosystem services, including carbon sequestration, water purification, managing flood risks, and nutrient cycling.

Applicability to the project:

The realisation of the project will result in long-term financial benefits to the surrounding communities and contribute to their economic growth and provide meaningful employment.

GOAL 9: Industry, Innovation and Infrastructure

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation. Constructing new greener infrastructures, retrofitting or reconfiguring existing infrastructure systems, exploiting the potential of smart technologies, the construction of resilience and the more efficient use of natural resources can greatly contribute to the reduction of environmental impacts and natural disaster risks, such as flooding.

Applicability to the project:

The project will contribute to the development of quality, reliable, sustainable and resilient infrastructure, to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies.

GOAL 10: Reduced Inequality

Reduce inequality within and among countries. Climate change and `natural` disasters contribute to exacerbate existing inequalities within and across countries by disproportionately affecting the poorest and most vulnerable groups. The sound management of natural resources and critical ecosystems as well as supporting institutional arrangements regarding the use and access to natural resources can contribute to the reduction of inequity.

Applicability to the project:

South Africa has been too long dependent on Fossil Fuel (FF) based energy generation, with the energy sector the largest contributor with 79.5% or 429 907 Gg CO₂e of the total gross emissions for South Africa. FFs contribute significantly to Climate Change with associated increased incidence of natural disasters. Transitioning to a renewable energy generation base, will make significant improvements to climate influencing emissions.

GOAL 11: Sustainable Cities and Communities

Make cities and human settlements inclusive, safe, resilient and sustainable. Urbanization, following the accelerated demand for basic services, infrastructure, jobs, land, and affordable housing, has historically been accompanied by increased pressure on the environment. Sustainable urbanization is needed to protect the environment and mitigate disaster risk and climate change, while resilience is crucial to avoid human, social and economic losses. Resource efficient cities combine greater productivity and innovation with lower costs in terms of resources and reduced environmental impacts, while providing increased opportunities for consumer choices and sustainable lifestyles.

Applicability to the project:

One of the targets for goal 11 is to strengthen efforts to protect and safeguard the world's cultural and natural heritage, which this project has done by undertaking cultural heritage assessments during the baseline EIA to ensure the lowest possible impact on these resources.

GOAL 12: Sustainable Consumption and Production

Ensure sustainable consumption and production patterns. Our current lifestyle, as it pertains to consumption & production patterns, is unsustainable... we produce and consume far more than we really

need. It is an insatiable greed promoted in part by 2-for-the-price-of-1 campaigns to drive profits in a competitive marketplace. One of the greatest global challenges is to integrate environmental sustainability with economic growth and welfare, and key to the achievement of this goal is “doing more with less (resources)!” Current global consumption (& production) rates must fit within the planet’s biophysical capacity to produce ecosystem goods & services.

Applicability to the project:

This project will help achieve one of the targets for the sustainable management and efficient use of natural resources by way of generating electricity through the renewable natural resource of the sun as opposed to the non-renewable resource of fossil fuels. Additionally, the project will ensure environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks*, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment (*Registration, Evaluation, and Authorisation of Chemicals or REACH is the European Union (EU) chemical substances regulatory framework). The development and adoption of an integrated waste management plan for the project which will substantially reduce waste generation through prevention, reduction, recycling and reuse.

GOAL 13: Climate Action

Take urgent action to combat climate change and its impacts. Climate change is increasing the frequency and intensity of extreme weather events or natural disasters such as heat waves, droughts, floods and tropical cyclones, aggravating water management problems, reducing agricultural production and food security, increasing health risks, damaging critical infrastructure and interrupting the provision of basic services such water and sanitation, education, energy and transport.

Applicability to the project:

Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters – indirectly through the maintenance of terrestrial ecosystems/biodiversity. Several specialist studies have been undertaken to determine the footprint most suited to have the least impact on local biodiversity.

GOAL 14: Life Below Water

Conserve and sustainably use the oceans, seas and marine resources for sustainable development.

Applicability to the project:

Not applicable to this project, although its location is within the coastal area but has no direct impact on the sea itself.

GOAL 15: Life on Land

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss. Maintaining terrestrial ecosystems greatly supports climate change mitigation and adaptation efforts; these ecosystems provide a series of goods (raw materials for construction and energy, food) and services (sequestration of carbon, maintenance of soil quality, provision of habitat for biodiversity, maintenance

of water quality, as well as regulation of water flow and erosion control), therefore contributing to reduce the risks of natural disasters such as floods and landslides, regulate climate and maintain the productivity of agricultural systems.

Applicability to the project:

The project has been designed as far as practicable to not transform the landscape and retain ecological processes in place including averting sensitive areas and receptors. The project will help ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services. The specialist inputs undertaken have help ensure urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and protect and prevent the extinction of threatened species. The EMPr will further prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems and control or eradicate the priority species.

GOAL 16: Peace and Justice Strong Institutions

Outside the scope of the project.

GOAL 17: Partnerships to achieve the Goal

Targets for this goal include building on existing initiatives to develop measurements of progress on sustainable development that complement gross domestic product, and support statistical capacity-building in developing countries.

Applicability to the project:

The project and current amendment application is in direct accordance with the Ministerial determination as gazetted on the 7th of July 2020, to procure 2000 MW of new generation capacity from a range of energy source technologies. The risk mitigation IPP procurement programme has been designed by the Department in order to fulfil the minister's directive. The procurement of renewable energy from IPPs through renewable energy sources is required in order to meet the national commitment to transition to a low carbon economy with a target of 17 800 MW by 2030.

SECTION III: MEASURES TO ENSURE AVOIDANCE, MANAGEMENT AND MITIGATION OF IMPACTS ASSOCIATED WITH SUCH PROPOSED CHANGE

See content in Section I as well as proposed changes to the EMPr in Section III.

SECTION III: ANY CHANGES TO THE EMPR

This section captures the recommended changes to the EMPr (Table 31) to adequately capture the outcomes of the Part 2 amendment process. This information has also been updated to the amended EMPr which is submitted as an appendix to this report.

Table 31. Proposed changes to EMPr in BOLD text.

Page No.	Current details:	Amended to:
2	Executive Summary	
	Soventix SA proposes to establish two commercial solar electricity generating facilities namely Soventix SA Saldanha Solar 1 and Soventix SA Saldanha 2.	Soventix SA proposes to establish two commercial solar electricity generating facilities namely Soventix SA Saldanha Solar 1 (EA Ref: 12/12/20/2126) and Soventix SA Saldanha 2 (EA Ref: 12/12/20/2126/1).
2	This draft Environmental Management Programme is developed for both the Saldanha Bay PV Solar Electricity Generation facilities in compliance with Regulation 33 of the Environmental Impact Assessment (EIA) Regulations R.543 of 2010 under the National Environmental Management Act, 1998 (Act No. 107 of 1998) [NEMA]. It is to be read in conjunction with the EIA Report providing detail on the affected environment as well as an impact assessment for the anticipated environmental impacts and the Environmental Authorisation (EA) as to be potentially issued.	This Environmental Management Programme (EMPr) is developed for both the Saldanha Bay PV Solar Electricity Generation facilities in compliance with Regulation 33 of the Environmental Impact Assessment (EIA) Regulations R.543 of 2010 and compliance with section 24N of the National Environmental Management Act, 1998 (Act No. 107 of 1998) [NEMA], as amended and contains those requirements prescribed in the EIA Regulations, 2014, including regulation 23, 32 and Appendix 4 of GN No. R. 326 of 7 April 2017, as amended. It is to be read in conjunction with the EIA Report providing detail on the affected environment as well as an impact assessment for the anticipated environmental impacts and the Environmental Authorisation (EA) as to be potentially issued.
2	<ul style="list-style-type: none"> Solar panels arranged in units with a total generating capacity of approximately 150 MW to be constructed as two separate yet integrated facilities of 75 MW each. A total footprint of 170 Ha for lease area B and 260 Ha for lease area A is required totalling approximately 430 ha. 	<ul style="list-style-type: none"> Solar panels arranged in units with a total generating capacity of approximately 200 MW to be constructed as two separate yet integrated facilities of 100 MW each. A total footprint of 163 Ha for lease area B (SS1) and 287 Ha for lease area A (SS2) is required totalling approximately 450 ha.
2	<ul style="list-style-type: none"> Each 75 MW facility will have an operations building to be contained within a <10 000 m² (see table below) lay down area for 	<ul style="list-style-type: none"> Each 100 MW facility will have an operations building to be contained within a <10 000 m² (see table below) lay

	<p>each facility. The facility will include areas used for security management and control room, maintenance and canteen as well as changing facilities; and</p>	<p>down area for each facility. The facility will include areas used for security management and control room, maintenance and canteen as well as changing facilities; and</p>
2	<p>Construction Phase</p> <ul style="list-style-type: none"> • Establish access roads; • Transport components and equipment to site; • Site preparation; • Establishment of laydown areas; • Establishment of ancillary infrastructure; • Construction of infrastructure foundations; • Establishment of PV panels; • Connection of PV panels to the on site substation; • Connection of the on site substation to the grid; • Contouring; and • Site remediation. 	<p>Construction Phase</p> <ul style="list-style-type: none"> • Establish access roads; • Transport components and equipment to site; • Site preparation; • Establishment of laydown areas; • Establishment of ancillary infrastructure; • Construction of infrastructure foundations; • Establishment of PV panels; • Establishment of containerized Gas Turbines; • Establishment of containerized battery storage; • Establishment of above-ground diesel storage tanks; • Connection of PV panels to the on site substation; • Connection of the on site substation to the grid; • Contouring; and • Site remediation.
3	<p>Operational Phase</p> <ul style="list-style-type: none"> • Maintenance and repairs of PV and associated equipment inclusive of: <ul style="list-style-type: none"> o Maintenance of roads; o Cleaning and maintaining / replacing panels; o Maintaining buildings and other infrastructure; and o Maintain and repair fencing. • Environmental remediation inclusive of: <ul style="list-style-type: none"> o Erosion and dust pollution control measures; o Fire management; 	<p>Operational Phase</p> <ul style="list-style-type: none"> • Maintenance and repairs of PV and associated equipment inclusive of: <ul style="list-style-type: none"> o Maintenance of roads; o Cleaning and maintaining / replacing panels; o Maintaining and servicing Gas Turbines; o Delivery of diesel for gas turbines; o Maintaining buildings and other infrastructure; and o Maintain and repair fencing.

	<ul style="list-style-type: none"> o Vegetation management; and o Control spread of invasive species. • Waste management; and • Health and safety implementations. 	<ul style="list-style-type: none"> • Environmental remediation inclusive of: <ul style="list-style-type: none"> o Erosion and dust pollution control measures; o Fire management; o Vegetation management; and o Control spread of invasive species. • Waste management; and • Health and safety implementations.
3	No comparative text.	<p>This EMPr has been amended in compliance with the requirements of Regulation 32 of the EIA Regulations (2014) as amended to include 167MWh of Lithium-Ion battery storage, equating to twenty-two (22) forty-foot (40') containers. Each shipping container is 12.2(l) x 2.43(w) x 2.59(h) in dimensions, with a collective/total footprint of approximately 667m². Additionally, five (5) gas turbine units will be required to generate <10MW of backup electricity. Each turbine unit will take up the footprint of a 40' container. Above-ground diesel storage will be required of less than 30m³ to provide the turbines with fuel. The additional infrastructure of the containerised batteries and gas turbines will only occupy a nominal footprint (<700m²) in relation to the full development. The gas turbine will only run intermittently and include noise suppressants, to reduce noise emissions and potential nuisance to people and the receiving environment. The containers are likely to be installed on plinths above-ground, so as to minimise impacts on stormwater runoff as well as allow for monitoring of leaks and potential soil contamination.</p>
5	ACRONYMS	
	No entry.	DEFF Department of Environment, Forestry & Fisheries
7	CHAPTER 1: INTRODUCTION AND LEGISLATIVE ASPECTS	

	This report is compiled in terms of the Regulation 33 of the Environmental Impact Assessment (EIA) Regulations R.543 of 2010 under the National Environmental Management Act, 1998 (Act No. 107 of 1998) [NEMA]. The format of this report is in line with the requirements of the Regulation.	This report is compiled in terms of the Regulation 33 of the Environmental Impact Assessment (EIA) Regulations R.543 of 2010 and compliance with section 24N of the National Environmental Management Act, 1998 (Act No. 107 of 1998) [NEMA], as amended and contains those requirements prescribed in the EIA Regulations, 2014, including regulation 23, 32 and Appendix 4 of GN No. R. 326 of 7 April 2017, as amended. The format of this report is in line with the requirements of the Regulations.
7	Table 1:Information required as per Section 33 of the EIA Regulations R.543, 2010.	Table 1:Information required as per Section 33 of the EIA Regulations R.543, 2010 and Appendix 4 of the EIA Regulations (2014) as amended.
10	2.1 PROJECT DESCRIPTION	
	<p>2.1.1.1 Construction Phase</p> <ul style="list-style-type: none"> • Establish access roads; • Transport components and equipment to site; • Site preparation; • Establishment of laydown areas; • Establishment of ancillary infrastructure; • Construction of infrastructure foundations; • Establishment of PV panels; • Connection of PV panels to the on site substation; • Connection of the on site substation to the grid; • Contouring; and • Site remediation. 	<p>2.1.1.1 Construction Phase</p> <ul style="list-style-type: none"> • Establish access roads; • Transport components and equipment to site; • Site preparation; • Establishment of laydown areas; • Establishment of ancillary infrastructure; • Construction of infrastructure foundations; • Establishment of PV panels; • Establishment of containerized gas turbines; • Establishment of containerized battery storage; • Establishment of above-ground diesel storage; • Connection of PV panels to the on site substation; • Connection of the on site substation to the grid; • Contouring; and • Site remediation.
11	2.1.1.2 Operational Phase	2.1.1.2 Operational Phase

	<p>This phase is envisaged for the current lifetime of the panels, which is estimated at approximately 20 to 30 years.</p> <ul style="list-style-type: none"> • Maintenance and repairs of PV and associated equipment inclusive of: <ul style="list-style-type: none"> o Maintenance of roads; o Cleaning and maintaining / replacing panels; o Maintaining buildings and other infrastructure; and o Maintain and repair fencing. • Environmental remediation inclusive of: <ul style="list-style-type: none"> o Erosion and dust pollution control measures; o Fire management; o Vegetation management; and o Control spread of invasive species. • Waste management; and • Health and safety implementations. 	<p>This phase is envisaged for the current lifetime of the panels, which is estimated at approximately 20 to 30 years.</p> <ul style="list-style-type: none"> • Maintenance and repairs of PV and associated equipment inclusive of: <ul style="list-style-type: none"> o Maintenance of roads; o Cleaning and maintaining / replacing panels; o Maintaining and servicing gas turbines; o Delivery of diesel for gas turbines; o Maintaining buildings and other infrastructure; and o Maintain and repair fencing. • Environmental remediation inclusive of: <ul style="list-style-type: none"> o Erosion and dust pollution control measures; o Fire management; o Vegetation management; and o Control spread of invasive species. • Waste management; and • Health and safety implementations.
11	2.2 DETAILS OF THE PERSON WHO COPMPILED THE EMPR	
	No entry.	The part 2 amendment to the approved Environmental Authorisations (EAs) were undertaken by Justin Bowers of Ecoleges Environmental Consultants for which an abbreviated CV is provided below.
14	CHAPTER 3: ISSUES RELATING TO THE IMPLEMENTATION OF THE EMPR	
	In 2006, the DEAT published Environmental Impact Assessment (EIA) Regulations under the NEMA. The EIA Regulations identifies certain activities that could have a significant detrimental impact on the environment. In 2010, the DEA amended the EIA Regulations in terms of the regulatory requirements and the listed activities.	In 2006, the DEAT published Environmental Impact Assessment (EIA) Regulations under the NEMA. The EIA Regulations identifies certain activities that could have a significant detrimental impact on the environment. In 2010 & 2014 , the DEA amended the EIA Regulations in terms of the regulatory requirements and the listed activities.
27	8.1 PLANNING AND DESIGN PHASE	

	<ul style="list-style-type: none"> • Demarcate micro construction sites, services routes, access routes, working boundaries and no-go areas; • Discuss methods of stockpiling (vegetation, topsoil, sub-soil, shell-grit, etc.); • Check that required toilets and fire-fighting facilities are in place; • Discuss and agree restricted access to construction site; • Sign the Declaration of Understanding (Contractors); • Discuss and agree communication channels including contact details; • Discuss and agree areas of responsibility; and • Discuss and agree the demarcation and control of construction and building sites. 	<ul style="list-style-type: none"> • Demarcate micro construction sites, services routes, access routes, working boundaries and no-go areas; • Discuss methods of stockpiling (vegetation, topsoil, sub-soil, shell-grit, etc.); • Check that required toilets and fire-fighting facilities are in place; • Discuss and agree restricted access to construction site; • Sign the Declaration of Understanding (Contractors); • Discuss and agree communication channels including contact details; • Discuss and agree areas of responsibility; and • Discuss and agree the demarcation and control of construction and building sites. • The applicant shall be guilty of an offence and upon conviction liable to a fine and / or imprisonment if the expanded scope commences without an approved Part 2 amended EA, issued by the DEFF. • The Gas Turbine generation design capacity may not exceed 10MW. • The above-ground diesel storage facility may not exceed 30m³ in capacity and as the site is located within an Identified Geographical Area (IGA) in Listing Notice 3 of the EIA Regulations (2014) as amended. • Ensure the specification of the GENSETs includes noise dampeners to reduce noise emissions. • Endeavour to ensure that the design of the Battery containers are suitably banded to effectively contain any accidental leakages.
31	Table 5: Construction phase management and mitigation measures Activity: Establishment of PV panels	
	<ul style="list-style-type: none"> • Construction of infrastructure foundations • Connection of PV panels to the substation 	<ul style="list-style-type: none"> • Construction of infrastructure foundations

	<ul style="list-style-type: none"> • Connection of the on site substation to the grid via cut and tie-in to the nearby Eskom 132 kV lines 	<ul style="list-style-type: none"> • Connection of PV panels to the substation • Establishment of containerized gas turbines • Establishment of containerized battery storage • Establishment of above-ground diesel storage tanks • Connection of the on site substation to the grid via cut and tie-in to the nearby Eskom 132 kV lines
32	Activity: Establishment of PV panels	
	<p>Several existing mitigations which are not listed for space reasons.</p>	<ul style="list-style-type: none"> • The foundational footings provided for the BESS & GENSETS containers should as far as practicable, allow for unimpeded stormwater runoff e.g. containers to be positioned on concrete plinths. • The vegetation beneath the containerised batteries and gas turbines will likely die back due to shading, exposing the soil to potential runoff induced erosion. Suitable measures must be installed to stabilise the affected soil and suitably remediate any sign of erosion at its onset.
36	Table 6: Management and mitigation measures during the operational phase	
	<p><u>Activity:</u> Maintenance and repairs of PV and associated equipment inclusive of:</p> <ul style="list-style-type: none"> • Maintenance of roads • Cleaning and maintaining/ replacing panels • Maintaining buildings and other infrastructure • Maintain and repair fencing 	<p><u>Activity:</u> Maintenance and repairs of PV and associated equipment inclusive of:</p> <ul style="list-style-type: none"> • Maintenance of roads • Cleaning and maintaining/ replacing panels • Maintaining and servicing gas turbines • Delivery of diesel for gas turbines • Maintaining buildings and other infrastructure • Maintain and repair fencing
	<p><u>Aspect:</u> Soil <u>Impacts:</u> Erosion <u>Management Measures:</u></p>	<p><u>Aspect:</u> Soil <u>Impacts:</u> Erosion <u>Management Measures:</u></p>

	<ul style="list-style-type: none"> • On-going management and maintenance of roads, roadways, and areas susceptible to erosion • Ensure suitable vegetation cover on non-hardened surfaces • Manage runoff of storm water to prevent soil erosion as result of blockages • No pollution of any surface water permitted 	<ul style="list-style-type: none"> • On-going management and maintenance of roads, roadways, and areas susceptible to erosion • Ensure suitable vegetation cover on non-hardened surfaces • Manage runoff of storm water to prevent soil erosion as result of blockages • No pollution of any surface water permitted • Battery housing must adequately contain any accidental leakages and not allow for leakage onto the ground beneath. • Supply and delivery of diesel into the above-ground storage tanks must be governed by an SOP that ensures the safe transfer of the product including minimising & remediation of spillages.
	<p><u>Aspect:</u> Surface water <u>Impacts:</u></p> <ul style="list-style-type: none"> • Water quality deterioration • Blocking of storm water systems <p><u>Management Measures:</u></p> <ul style="list-style-type: none"> • On-going erosion control management • Cleaning and maintenance of stormwater systems • Cleaning of areas with hardened surfaces to prevent accumulation of blocking material 	<p><u>Aspect:</u> Surface water <u>Impacts:</u></p> <ul style="list-style-type: none"> • Water quality deterioration • Blocking of storm water systems <p><u>Management Measures:</u></p> <ul style="list-style-type: none"> • On-going erosion control management • Cleaning and maintenance of stormwater systems • Cleaning of areas with hardened surfaces to prevent accumulation of blocking material • The above-ground storage of diesel must be suitably banded to 110% of its content and covered with a roof to avoid rainwater ingress.
	<p><u>Aspect:</u> Visual <u>Impacts:</u> Maintenance activities visible to surrounding land users / owners <u>Management Measures:</u></p> <ul style="list-style-type: none"> • Undertake maintenance only when necessary to avoid disturbance to surrounding land users / owners and passers by 	<p><u>Aspect:</u> Visual <u>Impacts:</u> Maintenance activities visible to surrounding land users / owners <u>Management Measures:</u></p> <ul style="list-style-type: none"> • Undertake maintenance only when necessary to avoid disturbance to surrounding land users / owners and passers by

	<ul style="list-style-type: none"> Schedule all or at least as many as possible maintenance activities at one time (e.g. bi-annually) 	<ul style="list-style-type: none"> Schedule all or at least as many as possible maintenance activities at one time (e.g. bi-annually) The above-ground storage of diesel may require a permit from the local fire chief in accordance with local bylaws.
37	No entry.	<p><u>Aspect:</u> Air quality</p> <p><u>Impacts:</u> Decline in Gas turbine exhaust emissions quality from inadequate maintenance and repairs.</p> <p><u>Management Measures:</u></p> <ul style="list-style-type: none"> Gas turbines are serviced under a maintenance program Daily pre-start checks for any necessary repairs or servicing Maintenance records keep updated Staff are competent and qualified to operate turbines. Ensure that noise emissions from the operation of the GENSETs are monitored and remain within acceptable limits. <p><u>Frequency</u> In line with manufacturers specifications for servicing and maintenance guidelines.</p> <p><u>Responsibility</u> Applicant / service provider</p> <p><u>Monitoring</u> ECO audit actions: Six monthly initial and then annual independent audits of Operations vs. EMPr and identification of those requirements that are not met</p> <p><u>Performance indicators / targets</u> Maintain the manufacturers exhaust emission standards throughout operational life</p> <p><u>Remedial Actions</u> Undertake servicing of turbines and complete a maintenance program.</p>
38	Activity: Waste management	

	<p>Solid Waste</p> <ul style="list-style-type: none"> • Solid waste must be managed in accordance with the requirements of the relevant legislation, inclusive European Union return to source policy as given in application process • No waste shall be disposed of by burning or burying on site • All waste will be deposited in waste containers for removal to an approved Municipal waste site • Marked waste bins/ skips shall be provided • All bins shall have lids to prevent the contents from blowing out • No waste and/ or refuse are to be stored on site for longer than 2 months • Bins shall not be used for any purposes other than waste collection and shall be emptied on a regular basis 	<p>Solid Waste</p> <ul style="list-style-type: none"> • Solid waste must be managed in accordance with the requirements of the relevant legislation, inclusive European Union return to source policy as given in application process • No waste shall be disposed of by burning or burying on site • All waste will be deposited in waste containers for removal to an approved Municipal waste site • Marked waste bins/ skips shall be provided • All bins shall have lids to prevent the contents from blowing out • No waste and/ or refuse are to be stored on site for longer than 2 months • Bins shall not be used for any purposes other than waste collection and shall be emptied on a regular basis • Depleted or malfunctioning batteries must be suitably disposed of.
<p>39</p>	<p>Activity: Health and safety implementations</p>	
	<ul style="list-style-type: none"> • Adhere to all health and safety legislation and the health and safety protocols, policies and standard operating procedures • All employees should attend an environmental, health and safety awareness training procedure prior to undertaking operations on site 	<ul style="list-style-type: none"> • Adhere to all health and safety legislation and the health and safety protocols, policies and standard operating procedures • All employees should attend an environmental, health and safety awareness training procedure prior to undertaking operations on site • The above-ground storage of diesel may require a permit from the local fire chief in accordance with local bylaws. • Maintenance equipment, including chemicals, lubricants, coolants etc. must be stored in accordance with the Occupational Health & Safety Act and be suitably contained/bunded that they pose no risk of leakage and contamination of the receiving environment.

46	CHAPTER 11: REFERENCES	
	<p>City of Cape Town, 2007. Environmental Management Programme, Specification: Environmental Management - Guideline Document for the Contractor. Revision, 2007, Ver. 5 (03/2002).</p> <p>Department of Minerals and Energy, 2002. Environmental Management Plan Submitted in support of application for a prospecting right or mining permit.</p> <p>Department of Environmental Affairs, 1998. National Environmental Management Act No 107 of 1998, as amended, 2008.</p> <p>Department of Environmental Affairs, 2010. Environmental Impact Assessment regulations. Government Notice No. 33306, Regulation 543, 18 June 2010.</p> <p>Department of Environmental Affairs and Development Planning, 2005. Guideline for Environmental Management Plans. Pg. 21, CSIR, June 2005.</p> <p>Lochner, P. 2005. Guideline for Environmental Management Plans. CSIR Report No ENV-S-C 2005-053 H. Republic of South Africa, Provincial Government of the Western Cape, Department of Environmental Affairs & Development Planning, Cape Town.</p>	<p>City of Cape Town, 2007. Environmental Management Programme, Specification: Environmental Management - Guideline Document for the Contractor. Revision, 2007, Ver. 5 (03/2002).</p> <p>Department of Minerals and Energy, 2002. Environmental Management Plan Submitted in support of application for a prospecting right or mining permit.</p> <p>Department of Environmental Affairs, 1998. National Environmental Management Act No 107 of 1998, as amended, 2008.</p> <p>Department of Environmental Affairs, 2010. Environmental Impact Assessment regulations. Government Notice No. 33306, Regulation 543, 18 June 2010.</p> <p>Department of Environmental Affairs, 2014. EIA Regulations, GG No. 38282, GN No. R. 982, 983, 984, 985, 4 December 2014, amended in GN No. R. 324, R. 325, R. 326, R. 327, R. 328 in GG No. 40772, 07 April 2017, GG No. 41766, GN No. 706, 13 July 2018 and GG No. 43358, GN No. 599, 29 May 2020.</p> <p>Department of Environmental Affairs and Development Planning, 2005. Guideline for Environmental Management Plans. Pg. 21, CSIR, June 2005.</p> <p>Lochner, P. 2005. Guideline for Environmental Management Plans. CSIR Report No ENV-S-C 2005-053 H. Republic of South Africa, Provincial Government of the Western Cape, Department of Environmental Affairs & Development Planning, Cape Town.</p>

AFFIRMATION OF THE APPOINTED INDEPENDENT EAP

(r) An undertaking under oath or affirmation by the EAP in relation to-

Report Information Accuracy.

- (i) the correctness of the information provided in the report;

EAP AFFIRMATION.

Appendix 2 Section 3 (s) of the Environmental Impact Assessment (EIA) Regulations, 2014 (promulgated in terms of the National Environmental Management Act 107 of 1998, as amended - NEMA), require an undertaking under oath or affirmation by the Environmental Assessment Practitioner (EAP) in relation to;

- (i) the correctness of the information provided in the reports;
- (ii) the inclusion of comments and inputs from stakeholders and I&APs;
- (iii) the inclusion of inputs and recommendations from the specialist reports where relevant; and
- (iv) any information provided by the EAP to interested and affected parties and any

I, **Justin A. Bowers**, on behalf of Ecoleges, hereby affirm that all comments and inputs received from stakeholders, specialists, interested and affected parties have been accurately recorded herein and, insofar as comments and recommendations are relevant and practicable, accommodated in the final Environmental Impact Assessment Report submitted to the Competent Authority, thereby attaining a desirable level of agreement for undertaking the environmental impact assessment.

Signature of the EAP

DATE: 09 March 2021

BIBLIOGRAPHY

DEA. 2010. Public Participation 2010, Integrated Environmental Management Guideline Series 7, Department of Environmental Affairs, Pretoria, South Africa.

DEAT. 2002. Specialist Studies, Information Series 4, Department of Environmental Affairs and Tourism (DEAT), Pretoria.

DEAT. 2004. Cumulative Effects Assessment, Integrated Environmental Management, Information Series 7, Department of Environmental Affairs and Tourism (DEAT), Pretoria).

Ogier, D. 2020/12/22. *Soventix Saldanha PV power augmentation Scope 2 - Tier 2 GHG assessment*. Cape Town, Western Cape Province.

APPENDICES

APPENDIX A: PUBLIC PARTICIPATION PROCESS FOLLOWED

Annexure A: Level of Public Participation

Annexure B: Displayed Site Notices

Annexure C: Close-up & wording of Site Notices

Annexure D: Background Information Document (BID) in English and Afrikaans

Annexure E: BID Distribution via Registered Mail and Email

Annexure F: Advertisement Wording

Annexure G: Proof of Placed Advertisement

Annexure H: List of Interested and Affected Parties

Annexure I: Comments and Response Sheet

Annexure J: Copies of comments received on report

APPENDIX B: SPECIALIST REPORTS

Greenhouse Gas Emissions Report

APPENDIX C: ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT (EMPR)

APPENDIX D: TITLE DEEDS

APPENDIX A - DETAILS OF THE PUBLIC PARTICIPATION PROCESS

- (ii) *details of the public participation process undertaken in terms of regulation 14 of the Regulations, including copies of the supporting documents and inputs;*
- (iii) *a summary of the issues raised by interested and affected parties, and an indication of the manner in which the issues were incorporated, or the reasons for not including them;*

1. Introduction

The Public Participation Process (PPP) is undertaken in accordance with Chapter 6 of the Environmental Impact Assessment (EIA) Regulations, 2014, as amended, and take into consideration the Public Participation 2017 Guideline Document (DEA, 2017). The PPP Plan, as required by the Disaster Management Act (Act 57 of 2002): Directions Regarding Measures to Address, Prevent and Combat the Spread of COVID-19 Relating to National Environmental Management Permits and Licences, dated 5 June 2020, was approved by the Competent Authority for implementation.

2. Objectives of the public participation

The level of public participation was determined by taking into account the scale of the anticipated impacts of the proposed project/amendments, the sensitivity of the affected environment and the degree of controversy of the project/amendments, and the characteristics of the potentially affected parties. Based on the findings of the above considerations, including cognisance of the Covid-19 pandemic, the PPP elaborated on the minimum requirements of the public participation process outlined in the EIA Regulations, 2014 by way of a number of reasonable alternative methods, including consideration for people desiring of but unable to participate in the process due to illiteracy, disability or any other disadvantage. These alternatives are discussed in more detail under 4.1(d) of this plan.

3. Identification of interested and affected parties

Over and above the placement of site notices on site and an advert in a local & provincial newspaper inviting I&APs to participate in the amendment application process, certain stakeholders were specifically & directly approached (organs of state, the owner or person in control of the land etc.) who are automatically regarded as I&AP's.

The following means of identifying stakeholders was used:

- a property and deeds search was undertaken of all adjacent properties and included as directly affected I&APs.
- the newspaper advert invited any other potential I&APs to register that were not included in the initial EIA process.
- the existing list of I&APs from the original EA Application (authorized under 12/12/20/2126) was also used for the Part 2 Amendment Application.
- network or chain referral systems according to which key stakeholders were asked to assist in identifying other stakeholders, including requesting ward councillors to notify and engage with community members within their ward.
- landowners were provided a tailored Background Information Document (BID)/Notification in Afrikaans, which is the most widely spoken local language, for distribution to their land occupiers.

4. Notification of interested and affected parties

All potential and registered I&APs have a right to be informed early and in an informative and proactive way regarding proposals that may affect their lives or livelihoods. Early communication aims to build trust among participants, allow more time for public participation, and improve community analysis. It also increases opportunities to modify the proposed development/amendments to effectively address relevant issues and comments received during the PPP.

4.1 Method of notification

The notification of a development/amendment proposal to I&APs must be given through a number of methods including fixing of notice boards, providing written notice and placing advertisements. Potentially interested and affected parties were notified of the proposed development application by –

a. fixing a notice board at a place conspicuous to the public (Annexure B&C) at the boundary or on the fence of –

- i. the site where the activity to which the application relates is or is to be undertaken; and
- ii. any alternative site mentioned in the amendment application.

Three notice boards were fixed at places conspicuous to the public, on the 2nd of February 2021, as follows:

- Location 1: -33°01'44.1"S & 18°05'35.3"E
- Location 2: -33°01'44.2"S & 18°05'35.5"E
- Location 3: -33°00'34.1"S & 18°05'59.6"E

b. giving written notice to –

Written notice (Background Information Document (BID)/Notification – Annexure D) was given to owners and occupiers of land adjacent to Farm Waschkliip 183, and organs of state having jurisdiction in respect of the proposed activity, whose details are captured in Table 32 below. The BID/Notification was prepared and distributed via email, fax or registered mail to all parties on the I&AP register as per section 47D of NEMA. Email submissions requested a “delivery receipt” and “read receipt”; registered mail included a tracking number which was also sent to the I&AP via SMS and/or WhatsApp to help ensure they received the document. The notification/BID was also distributed by way of a “broadcast list” in WhatsApp and/or MMS. The notification included the contact details that the I&AP can use to contact and communicate with the EAP. The BID/Notifications were sent on the 26th of January 2021 of which proof of distribution is included as Annexure E.

Table 32. List and details of landowners, land occupiers and organs of state.

<p>The owner or person in control of that land if the applicant is not the owner or person in control of the land:</p> <ul style="list-style-type: none"> • ArcelorMittal (Travesh Ramkhelawan); Email: travesh.ramkhelawan@arcelormittal.com; Cell: 083 468 1607
<p>Owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken:</p> <ul style="list-style-type: none"> • ArcelorMittal (Travesh Ramkhelawan); Email: travesh.ramkhelawan@arcelormittal.com; Cell: 083 468 1607

The municipal councillor of the ward in which the site or alternative site is situated and any organisation of rate payers that represent the community in the area:

- Dries Venter (Ward 6), Email: dries.venter@sbm.gov.za
- Eventhia Vaughan (Ward 8), Email: Eventhia.vaughan@sbm.gov.za
- Wilhelm America (Ward 14); Email: wimpie.america@sbm.gov.za;

The municipality which has jurisdiction in the area:

Saldanha Bay Local Municipality

- Mr Heinrich Mettler (Municipal Manager); Email: heinrich.mettler@sbm.gov.za; Tel: 022 701 7173
- Ms Benice Rossouw (PA); Email: benice.rossouw@sbm.gov.za; Tel: 022 701 7173
- Mr Gary Tomlinson (Town Planner); Email: Gary.Tomlinson@sbm.gov.za, Tel: 022 701 6981
- Mr Gavin Williams (Infrastructure), Email: Gavin.Williams@sbm.gov.za; Cell: 082 809 5465
- Ms Nazeema Duarte (Env & Heritage Officer), Email: Nazeema.Duarte@sbm.gov.za; Tel: 022 701 7116

West Coast District Municipality

- Mr David Joubert (Municipal Manager); Email: westcoastdm@wcdm.co.za; Tel: 022 4338400;
- Mrs Dorethea Kotze (PA); Email: dkotze@wcdm.co.za; Tel: 022 4338400;
- Mr Basil Stanley (Infrastructure Services); Email: bstanley@wcdm.co.za;
- Mr Charles Malherbe (Env Officer); Email: Cjmalherbe@wcdm.co.za; Tel: 0224338400

Any organ of state having jurisdiction in respect of any aspect of the activity:

Department of Environment Fisheries and Forestry (DEFF)

- Ms Constance Musemburi; Email: CMusemburi@environment.gov.za; Tel: 012 399 9416
- Ms Azrah Essop; Email: AEssop@environment.gov.za; Tel: 012 399 8529

Department of Water & Sanitation (DWS)

- Mr Derril Daniels; Email: danielsd@dws.gov.za; Tel: 021 941 6189

Department of Environmental Affairs and Development Planning

- Adri La Meyer; Email: Adri.Lameyer@westerncape.gov.za; Tel: 021 483 2887

Cape Nature

- Ismat Adams (Conservation Officer), Email: iadams@capenature.co.za; Cell: 072 664 0698

Department of Environmental Affairs & Development Planning - Land Use

- Ms Melanie Scheepers; Email: melanese.schippers@pgwc.gov.za

Department of Agriculture

- Mr Brandon Layman; Email: brandonl@elseburg.com

Department of Transport and Public Works

- Mr Jandre Bakker; Email: Jandre.Bakker@wc.gov.za; Tel: (021) 483 8513

Department of Agriculture

- Ms Thando Ndulula; Email: thandoNd@daff.gov.za, Cell: 066 347 8170

Any other party as required by the competent authority/EAP:

SAHRA

- Loaded onto SAHRIS

South African Air Force

- Head Office – Col EP De Villiers; Postal Address: Air Force Base Langebaanweg Post Office Langebaanweg 7375

Langebaan Ratepayers

- Mr Jaco Kotze, Email: jacokotzelangebaan@gmail.com, Cell: 082 889 0685

South African Civil Aviation Authority (SACAA)

- Themba Thabethe; Email: ThabetheT@caa.co.za; Cell: 067 417 2022

Heritage Western Cape (HWC)

- CEO of HWC, Email: Ceoheritage@westerncape.gov.za
- Coletter Scheermeyer, Email: Colette.scheermeyer@westerncape.gov.za
- Waseefa Dhansay, Email: Waseefa.Dhansay@westerncape.gov.za

West Coast National Parks

- Mr Pierre Nel; Email: PierreN@sanparks.org; Tel: 022 772 2144

Bird Life SA

- M. Anderson; Email: info@birdlife.org.za

Cape West Coast Biosphere Reserve

- Chantel van der Merwe and Mr Rhett Smart; Email: info@capebiosphere.co.za;

Long Acres Home Owners Association

- Mr Aubrey Fourie; Email: aubrey.fourie@pamgolding.co.za; Cell: 082 458 5757

West Coast Bird Club

- Mr Keith Harrison; Email: keithhbharrison@lando.co.za;

West Coast Fossil Park

- Ms Pippa Haarhoff; Email: pjh@fossilpark.org.za; Tel: 022 766 1606
- Deon van Eeden - Vula Env'l Services (Chemfos Mine); Email: deon@vula.biz, Cell: 082 564 5748

West Coast National Park

- Mr Pierre Nel; Email: PierreN@sanparks.org

Servitude Holders:

ESKOM

- Ms Justine Wyngaardt; Email: wyngaajo@eskom.co.za

c. placing an advertisement in –

- one local newspaper; or
- any official Gazette that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- one provincial newspaper or national newspaper if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or local municipality in which it is or will be undertaken.

An advertisement (Annexure F) was placed in a local newspaper, the Weslander Newspaper, on the 28th of January 2021 (Annexure G) and a provincial newspaper, Die Burger, on the 29th of January 2021 (Annexure G). No official Gazette existed at the time of the application.

The proposed activity is expected to have a limited impact that extends beyond the boundaries of the metropolitan or local municipality in which it will be undertaken.

d. using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person desires of but unable to participate in the process due to illiteracy, disability or any other disadvantage.

Landowners were provided a tailored Background Information Document (BID)/Notification in Afrikaans, which is the most widely spoken local language, for distribution to their land occupiers. Additionally, should the councillors have community notice boards, weather-proof notices were offered to erect on these boards, but none accepted.

Thus, three reasonable alternatives were identified.

1. Translating the BID/Notification into Afrikaans, which was distributed by email and registered mail on the 12th of January 2021,
2. Scheduling an online virtual public meeting should the need arise, as an alternative to the normal Public Meeting, and
3. Creating a WhatsApp Group to inform the Interested and Affected Parties of information shared and deadlines.

In terms of Regulation 55(1), all organs of state which have jurisdiction in respect of the proposed activity and all persons who submitted written comments, attended the site meeting or requested, in writing, to be registered were placed on the register.

4.2 Proof of notification

Proof of BID/Notification via email, fax and/or registered mail was provided (Annexure B (site notices), E (BID/Notification) & G (adverts)).

5. Notification of interested and affected parties of reports and other studies

Proof that the “motivation” report, appendices and specialist studies was disseminated on 8 March 2021 to all Interested and Affected Parties (full list of I&APs in Annexure H), for a 30-day commenting period.

6. Interested and affected parties

- I&APs were listed and given access and opportunity to comment on all written submissions via email, fax and/or registered mail. Email submissions requested a “delivery receipt” and “read receipt”; registered mail included a tracking number which was also sent to the I&AP via SMS and/or WhatsApp to help ensure they receive the document. The notification/BID was also distributed by way of a “broadcast list” in WhatsApp and/or MMS. The notification included the contact details that the I&AP can use to contact and communicate with the EAP.
- Responses were provided to all comments received,

- Feedback to interested and affected parties was recorded in the Comments and Response sheet, which was used as a disclosure of interested and affected parties' interests, and
- Once a decision has been made, all registered interested and affected parties will be notified via email, fax and/or registered mail. The decision can also be provided to local councillors in a notice format to erect on community notice boards.

Refer to Annexure H for the full list of Interested and Affected Parties.

6.1 Access and opportunity to comment on all written submissions

All communication, including but not limited to reports, was disseminated to registered interested and affected parties for a 30-day commenting period.

6.2 Response to comments received: feedback to interested and affected parties

Please refer to Annexure I for the Comments and Response sheet.

6.3 Disclosure of interested and affected parties' interests

Please refer to Annexure I for the Comments and Response sheet.

6.4 Notifying interested and affected parties of the decision

Once a decision has been made, all registered interested and affected parties will be notified.

7. Record of issues raised

Please refer to Annexure J for the Copies of received comments.

8. Addressing the comments and concerns raised by the interested and affected parties

Please refer to Annexure I for the Comments and Response sheet.

Annexure A – Level of Public Participation

LEVEL OF PUBLIC PARTICIPATION QUESTIONNAIRE FORM

Project: Addition of battery storage and gas turbines to a 100 MW solar electricity generation facility proposed on Farm Waschklip 183, (Soventix SA Saldanha 1(SS1)).

Questions and Answers	Expand Geographical Area	Expand Interest Groups	Expand Process (i.e. no. of meetings, languages, means, etc.)
Scale of anticipated impacts			
1) Are the impacts of the project likely to extend beyond the boundaries of the local municipality?		X	
There are limited negative impacts anticipated, the positive impacts of the renewable energy project producing non-polluting electricity to the national grid will extend beyond the local municipality.			
2) Are the impacts of the project likely to extend beyond the boundaries of the province?	X		
There are limited negative impacts anticipated, however the positive impacts of the renewable energy project producing non-polluting electricity to the national grid will extend beyond the province.			
3) Is the project a greenfields development (a new development in a previously undisturbed area)?		X	
No, the development footprint falls on previously cultivated land owned by a mining company.			
4) Does the area already suffer from socio-economic problems (e.g. job losses) or environmental problems (e.g. pollution), and is the project likely to exacerbate these?		X	X
If the project is awarded preferred bidder status and commences, there is going to be temporary and permanent employment.			
5) Is the project expected to have a wide variety of impacts (e.g. socio-economic and environmental)?		X	X

It is anticipated that the project will have positive impacts on job creation and skills development locally, as well as the generation of “clean” electricity.			
Public and environmental sensitivity of the project			
6) Are there widespread public concerns about the potential negative impacts of the project?			
To date there have been no comments or responses from I&AP's that reflect widespread public concerns. The Langebaan Ratepayer's Association has verbalised concerns but no formal submission has been received.	X	X	X
7) Is there a high degree of conflict among I&AP's?			
To date there have been no comments or responses from I&AP's that reflect a high degree of conflict.			X
8) Will the project impact on private land other than that of the applicant?	X		
No.			
9) Does the project have the potential to create unrealistic expectations (e.g. that a new factory would create a large number of jobs)?		X	X
No.			
Potentially affected parties			
10) Has very little previous public participation taken place in the area?			
Public participation took place for the initial EA application as well as for the Part 1 & Part 2 amendments.			X
11) Did previous public participation processes in the area result in conflict?			
No.			X
12) Are there existing organizational structures (e.g. local forums) that can represent I&AP's?		X	X
There are Municipal Councillors that can represent I&APs.			
13) What is the literacy level of the community in terms of their ability to			X

participate meaningfully within the public participation process?			
Not known, however there has been fair interest shown in the project, indicative that the community understands the project.			
14) Is the area characterized by high social diversity (i.t.o socio-economic status, language or culture)?		X	X
Not known for sure, but unlikely.			
15) Were people in the area victims of unfair expropriations or relocation in the past?		X	X
No.			
16) Is there a high level of unemployment in the area?		X	X
The unemployment levels reflect the national average.			
17) Do the I&AP's have special needs (e.g. a lack of skills to read or write, disability, etcetera)?			X
Not known.			

Conclusion:

Based on the information provided in the table above, there is limited reason to elaborate on the minimum requirements of the public participation process as described in the EIA Regulations, 2014.

Annexure B – Displayed Site Notices



Photo 1. Site Notice at $-33^{\circ}01'44.1''\text{S}$ & $18^{\circ}05'35.3''\text{E}$.



Photo 2. Site Notice at $-33^{\circ}01'44.2''\text{S}$ & $18^{\circ}05'35.5''\text{E}$.



Photo 3. Site Notice at $-33^{\circ}00'34.1''\text{S}$ & $18^{\circ}05'59.6''\text{E}$.

Annexure C – Close-up & wording of Site Notices



Figure 4. Close-up of site notices.

SS1& SS2 Site Notice

Notice is hereby given in accordance with Regulation 32 & 41(2)(a) of the Environmental Impact Assessment Regulations (2014) for Part 2 Amendment Applications to Environmental Authorisations (12/12/20/2126 & 12/12/20/2126/1) on Farm Waschkliip 183, (Soventix SA Saldanha 1) and Farm Everts Hope 190, (Soventix SA Saldanha 2), near Langebaan, within the Saldanha Bay District Municipality in the Western Cape Province.

Description of activity:

In terms of Chapter 5, Regulation 31 of the EIA Regulations (GN No. R. 982 of 4 December 2014) as amended, the applications for the inclusion of containerized lithium-ion battery storage and gas turbines (with a combined generation capacity of <10MW and associated storage of Liquefied Petroleum Gas (LPG) and/or Liquefied Natural Gas (LNG) and/or Diesel of less than 30m³), to the Solar Photo-Voltaic (PV) facility, is subject to a Part 2 amendment to the current Environmental Authorisation (EA).

Applicant:

Soventix South Africa (Pty) Ltd

Consultant:



Contact person:

Justin Bowers (*MTech, Pr.Sci.Nat., MGSSA*),

Cell: 083 644 7179

Fax: 086 697 9316

E-Mail: info@ecoleges.co.za

PO Box 516, Machadodorp, 1170

www.ecoleges.co.za

Registration:

For further information and/or to be identified and registered as an interested and/or affected party, please submit in writing your name, contact details including address, and interest in the matter to the contact person and in the manner(s) provided above, within 30-days of the date of this notice (05 February 2021).

Annexure D – Background Information Document (BID) in English and Afrikaans



2 Generaal Street, Machadodorp
P.O. Box 516, Machadodorp, 1170
P.O. Box 9005, Nelspruit, 1200
www.ecoleges.co.za
info@ecoleges.co.za
January 26, 2021

BACKGROUND INFORMATION DOCUMENT (BID)/NOTIFICATION

THE CONSTRUCTION OF A 100MW COMMERCIAL SOLAR ELECTRICITY GENERATION FACILITY AND ITS INFRASTRUCTURE, INCLUDING CONTAINERISED LITHIUM-ION BATTERY STORAGE AND GAS TURBINES AND ASSOCIATED FUEL STORAGE, ON THE FARM WASCHKLIP 183 (SOVENTIX SA SALDANHA 1) WITHIN THE SALDANHA BAY DISTRICT MUNICIPALITY IN THE WESTERN CAPE PROVINCE.

PURPOSE OF THIS DOCUMENT

The purpose of this document is to provide background information and notification to the proposed amendments to the project and to obtain comments and contributions from stakeholders with regards to potential environmental impacts – which includes, but not limited to: ecological, social, economic, physical, aesthetic, etc.

Ecoleges, as the independent Environmental Assessment Practitioner (EAP), has been appointed by the proponent, Soventix South Africa (Pty) Ltd, to apply for a Part 2 amendment to the Environmental Authorisation (DEFF Ref #: 12/12/20/2126), in accordance with Regulations 31 of the EIA Regulations (2014) as amended, to be submitted to the relevant competent authority (National Department of Environment, Forestry and Fisheries).

The aim of the amendment report is to undertake an assessment of all impacts related to the proposed changes, evaluate the advantages and disadvantages associated with the proposed changes, and determine measures to ensure avoidance, management and mitigation of impacts associated with the proposed changes. The process will also ensure stakeholder engagement and provide decision makers with sufficient information to make an informed decision on the proposed amendments to the current project scope.

YOUR COMMENTS WILL FORM PART OF THE ENVIRONMENTAL REPORT

APPLICABLE LEGISLATION

Notice is given in terms of Regulation 32 and Regulation 41(2)(b) of the EIA Regulations (GN No. R. 982, 04 December 2014), and section 47D of the National Environmental Management Act (Act 107 of 1998) as amended, and the approved Public Participation Process Plan required by the EIA Directions (GN No. 650, 5 June 2020), for a Part 2 amendment to the existing Environmental Authorisation, for the inclusion of containerized lithium-ion battery storage and gas turbines (with a combined generation

capacity of <10MW with above-ground storage of Liquefied Petroleum Gas (LPG) and/or Liquefied Natural Gas (LNG) and/or Diesel of less than 30m³) to the Solar Photo-Voltaic facility.

The reasons for the amendment application are as follows:

This project underwent an environmental authorisation process as part of the feasibility study and prerequisite by the National Energy Regulator of South Africa (NERSA) for awarding a Power Purchase Agreement (PPA) under the Renewable Energy Feed in-Tariff (REFIT) program. In accordance with the Ministerial determination as gazetted on the 7th of July 2020, the Minister of Mineral Resources and Energy, in consultation with the National Energy Regulator of South Africa has determined that the Department is to procure 2000 MW of new generation capacity from a range of energy source technologies. The risk mitigation IPP procurement programme has been designed by the Department in order to fulfil the minister's directive. The promulgation of the IRP 2019 and associated Ministerial determinations, guide the roll out of the Independent Power Producers Procurement Programme (IPPPP). The procurement of renewable energy from IPPs through renewable energy sources is required in order to meet the national commitment to transition to a low carbon economy with a target of 17 800 MW by 2030.

The original EA process was undertaken in accordance with the published criteria of REIPPPP Bid Window 4. However, the RFP for the risk mitigation IPP procurement programme and Bid Window 5 has additional requirements in terms of generation assurance that necessitates the inclusion of battery storage and gas turbine generation (and associated fuel storage) to ensure the facility can meet its generation mandate irrespective of prevailing weather conditions.

This will require 167MWh of Lithium-Ion battery storage, equating to twenty-two (22) forty-foot (40') containers. Each shipping container is 12.2(l) x 2.43(w) x 2.59(h) in dimensions, with a collective/total footprint of approximately 667m². Additionally, five (5) gas turbine units will be required to generate <10MW of backup electricity. Each turbine unit will take up the footprint of a 40' container. Above-ground LNG and/or LPG and/or Diesel storage will be required of less than 30m³ to provide the turbines with fuel.

LOCATION

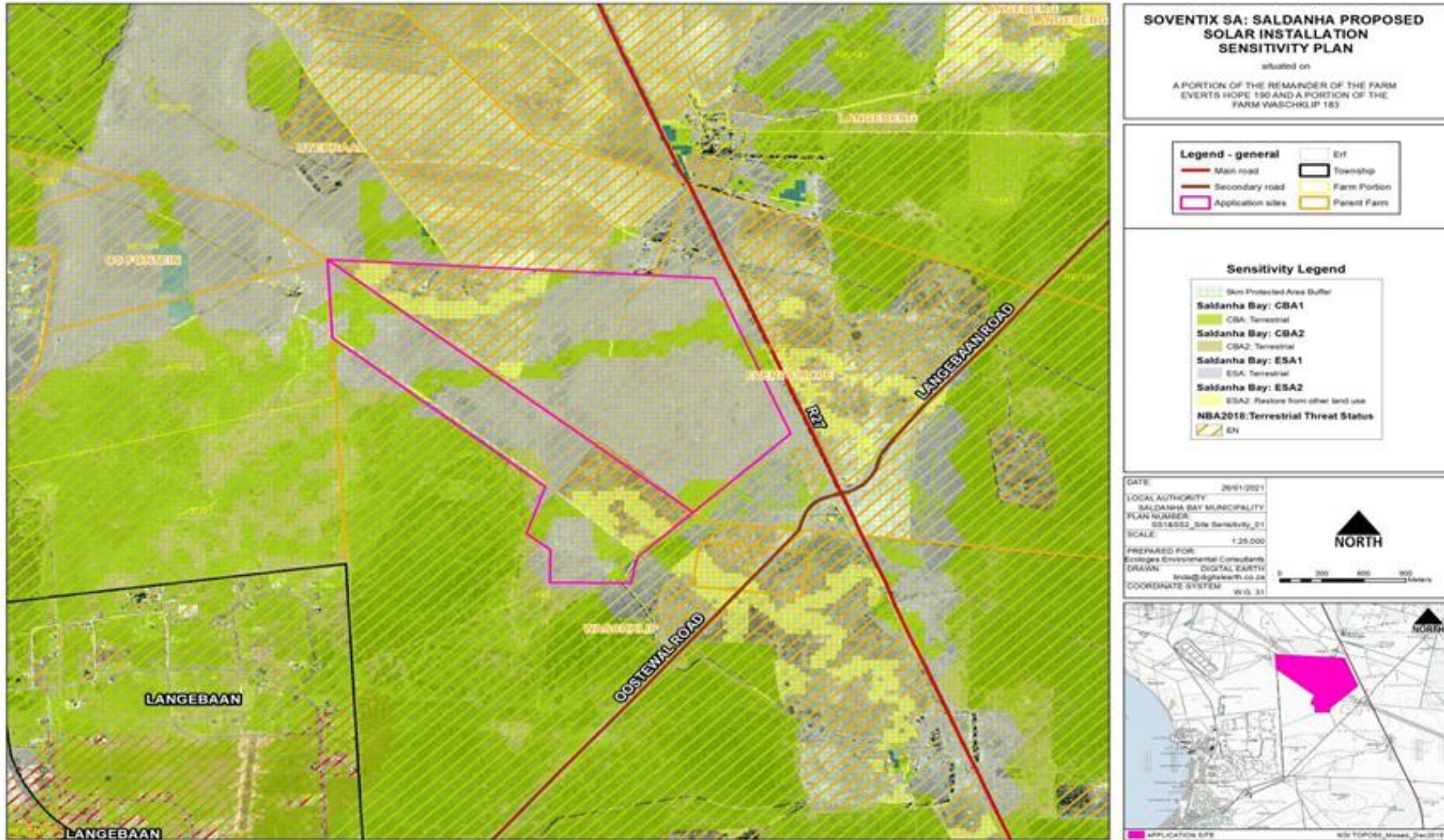


Figure 1. Location & sensitivity map of the proposed development.

MEMBERS: J.A. Bowers (M Tech, Pr.Sci.Nat., MGSSA) & S.D. MacGregor (MSc., Pr.Sci.Nat.)
Reg: 2006/023163/23

OBJECTIVE OF THE AMENDMENT PROCESS

The overall objective is to undertake and complete a robust and defensible review that will serve to inform the Department of Environment, Forestry and Fisheries (DEFF) and allow for a decision on the environmental acceptability of the proposed amendments.

PROJECT DESCRIPTION

The construction of the 100MW commercial solar electricity generation facility and its infrastructure, including containerised lithium-ion battery storage and gas turbines and associated fuel storage.

The proposed location is on the Farm Waschklip 183, (Soventix SA Saldanha 1) within the Saldanha Bay District Municipality in the Western Cape Province

DESCRIPTION OF TASKS

- An advertisement will be placed in the Die Burger, a provincial newspaper, on 29 January 2021.
- Another advertisement will be placed in the **Weslander**, a local newspaper, on 28 January 2021.
- Stakeholders, including adjacent landowners, neighbours within a 100 m radius, and the relevant authorities were notified of the proposed development in writing on 26 January 2021.
- Notice boards advertising the applications will be placed at the site, on/before 05 February 2021.
- A virtual public meeting will be held on request at a day and time convenient to the Interested and Affected Parties requesting the meeting.

ANTICIPATED ISSUES

Issues that may be addressed in the environmental assessment could include, but will not be limited to the following:

- Potential of soil contamination in the event of leaking batteries, and hydrocarbon spills from the gas turbines, should the containers be compromised and/or cannot contain the pollutant.
- Additional waste management impacts associated with recycling of depleted batteries. Battery life is expected to be in the region of 20-years. Any soil contamination event would also need to be disposed of as hazardous waste and/or bio-remediated on site.
- Air quality impacts and increased greenhouse gases emissions due to gas turbine emissions.
- Depletion of non-renewable resources i.e. LNG and/or LPG and/or Diesel.

COMMENTS PLEASE!

Your comments on the proposed amendment application, the public participation process, and issues needing investigation, will assist the authorities in their consideration of the relevant environmental and social aspects.

You are invited to register as an Interested and Affected Party (I&AP) and to assist us in:

- identifying possible impacts of the proposed amendments on the environment,

- making suggestions for mitigation and/or alternatives, and
- considering the “need” and “desirability”.

Mitigations

Mitigation measures will be developed for the anticipated issues/impacts. Stakeholders are, however, welcome to comment on these issues and provide additional observations.

Alternatives

Consideration of Alternatives is one of the most critical elements of this process. Its role is to provide a framework for sound decision-making based on the principle of sustainable development. Alternatives should be identified as early as possible in the project cycle. Ecoleges welcomes stakeholders' inputs/suggestions, to submit possible reasonable and feasible alternatives for consideration.

It is important to note that an alternative is defined as a different means of meeting the same general purpose and requirements of the activity, which may include alternatives to-

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

When submitting alternatives, the recommended alternative must be:

- Practicable,
- **Feasible**,
- Relevant,
- **Reasonable**, and
- Viable.

Need and Desirability

'Need and desirability' is determined by considering the broader societal/community needs and interests. The general meaning of need and desirability refers to time and place, respectively, i.e. is this the right time and is it the right place for locating/undertaking the proposed activity.

In order to ensure that you are registered as an interested and / or affected party, please complete the enclosed REGISTRATION AND COMMENT SHEET and forward it to the address, fax or email provided below:

Postal Address:

P.O Box 516
Machadodorp
1170

Fax: 086 697 9316

E-mail: info@ecoleges.co.za

Cell/ WhatsApp: 083 644-7179

REGISTRATION AND COMMENT SHEET

**PART 2 AMENDMENT TO THE ENVIRONMENTAL AUTHORISATION FOR THE DEVELOPMENT OF A SOLAR PV FACILITY ON FARM WASCHKLIP 183 (SOVENTIX SA SALDANHA 1) WITHIN THE SALDANHA BAY DISTRICT MUNICIPALITY IN THE WESTERN CAPE PROVINCE.
ECOLEGES REFERENCE: 2020_005P**

Title: _____ Name: _____
Surname: _____
Company Name / Interest Group: _____

*Postal or Residential Address: _____

Town/City: _____
Postal Code: _____
Tel: (_____) _____
Cell: _____
Fax: (_____) _____
E-mail address: _____
<i>A registered interested and affected party is entitled to comment, in writing, on all written submissions including draft reports made to the competent authority provided that the interested and affected party discloses any direct business, financial, personal or other interest which that party may have in the approval or refusal of the application. Please supply such information in the space provided below:</i>

*Please indicate with an **X** whether you would like to be kept informed of the Part 2 EA Amendment Application process.*

<i>YES, I would like to be kept informed</i>	
<i>NO, I am not interested</i>	

If "YES", how would you like to be informed? (please mark the appropriate block with an "X")

<i>E-mail</i>	
<i>Fax</i>	

COMMENTS: *(If you require more space than that which is provided, please attach additional pages)*

Thank you for your participation

Please be assured that your comments will form part of the final document to be submitted to the decision-making authority.



2 Generaal Street, Machadodorp
P.O. Box 516, Machadodorp, 1170
P.O. Box 9005, Nelspruit, 1200
www.ecoleges.co.za
info@ecoleges.co.za
March 8, 2021

KENNISGEWING VAN AGTERGRONDS INLIGTINGS DOKUMENT (AID)

DIE VOORGESTELDE ONTWIKKELING VAN 'N 100MW SONFOTO-VOLTAISE STELSEL EN VERWANTE INFRASTRUKTURE INSLUITEND LITHIUM-IOON-BATTERYBERGING EN GASTURBINES MET BRANDSTOFBERGING OP PLAAS WASCHKLIP 183, (SOVENTIX SA SALDANHA 1), BINNE DIE SALDANHA BAY DISTRIK MUNISIPALITEIT IN DIE WESKAAP-PROVINSIE.

DOEL VAN HIERDIE DOKUMENT

Die doel van hierdie dokument is om agtergrondsinsligting en kennisgewing vir die voorgestelde wysigings aan die projek te verskaf en om kommentaar en bydraes van aandeelhouers oor moontlike omgewingsimpakte (wat die ekologiese, sosiale, ekonomiese, fisieke, estetiese ens. insluit), te bekom.

Ecoleges, as die onafhanklike omgewingswaardeerder, is deur die voorsteller Soventix South Africa (Pty) Ltd aangestel om aansoek te doen vir 'n Deel 2-wysiging aan die Omgewingsgesag (DEFF Ref#: 12/12/20/2126) in ooreenstemming met die gewysigde Bepaling 31 van die EIA-bepalings (2014) om vir die betrokke gesag (Nasionale Departement van die Omgewing, Bosbou en Visserye) voorgelê te word.

Die oogmerk van die wysigingsverslag is om 'n waardasie van alle impakte wat met die voorgestelde veranderinge verband hou, te onderneem en om die voordele en nadele rakende die wysigings te evalueer, asook om maatreëls te bepaal om vermyding, bestuur en versagting van die impak te bepaal. Die proses sal ook aandeelhouer-betrokkenheid verseker en besluitnemers van voldoende insligting voorsien sodat ingeligte besluite oor die voorgestelde wysigings by die huidige projek geneem kan word.

**U KOMMENTAAR SAL DEEL VAN DIE
OMGEWINGSVERSLAG UITMAAK**

TOEPASLIKE WETGEWING

Kennis is gegee in terme van Regulasie 32 van die EIA-Regulasies (GN Nr R 982, 04 Desember 2014), soos gewysig, vir 'n Deel 2-wysiging van die bestaande Omgewingsgesag in terme van Regulasie 31 van die EIA-Regulasies, vir die insluiting van 'n lithium-ioon-batterystoor en gasturbines (met 'n gekombineerde energiekapasiteit van <10MW en bogrondse berging van Vloeibare Petroleumgas (LPG) en/of Vloeibare Natuurlikegas (LNG) en/of Diesel van minder as 30m³) tot die Son-foto-voltaise (PV) fasiliteit.

Die rede vir die wysigingsaansoek is soos volg:

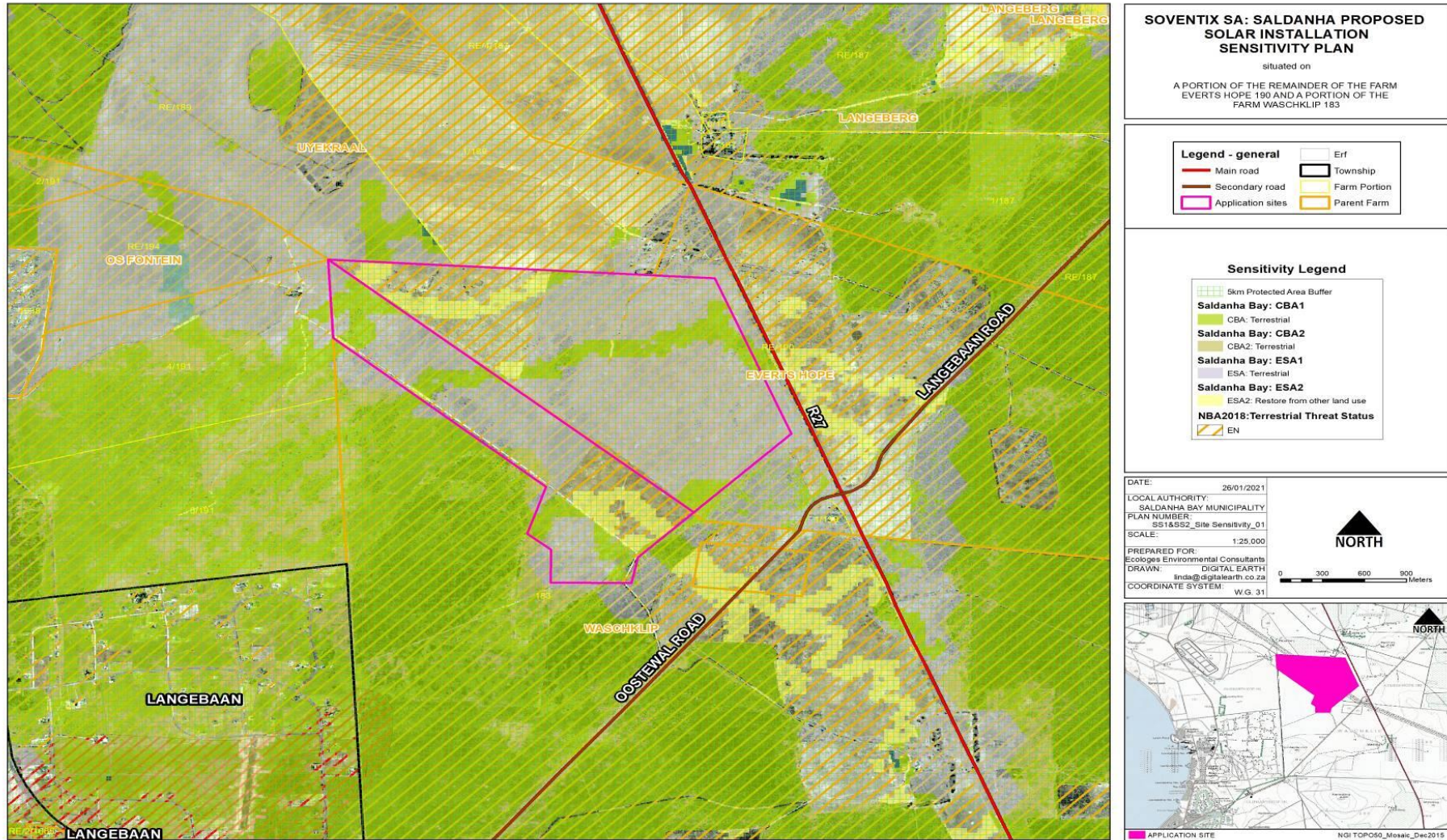
Die projek het 'n proses van omgewingsoutorisasie (OO) ondergaan as deel van die sekerheidstudie en voorvereistes deur die Nasionale Energie- Reguleerder van Suid-Afrika (NERSA) ten einde 'n Kragkoop-ooreenkoms (Power Purchase Agreement, PPA) onder die Herwinbare Energie Verskaffingstarief (REFIT)-program te verkry. In ooreenstemming met die ministeriële bepaling van 7 Julie 2020, het die Minister van Mineralebronne en Energie, in konsultasie met die Nasionale Energie-Reguleerder van Suid-Afrika (NERSA), bepaal dat die Departement 2000MW van die nuwe generasie kapasiteit van 'n reeks energiebronne tegnologië sal verskaf.

Die IPP-ontwikkelingsprogram vir risiko-mitigasie is deur die Departement ontwerp ten einde aan die Minister se voorskrif te voldoen. Die bekendmaking van die IRP 2019 en verwante ministeriële besluite, lei die aanvang van die Onafhanklike Kragverskaffers-Ontwikkelingsprogram (IPPPP). Die opwekking van herwinbare energie van IPP's deur herwinbare energiebronne is nodig om hierdie nasionale verbondenheid tot die oorgang na lae-koolstof-energie van 17 800 MW teen 2030 na te kom.

Die oorspronklike OO-proses is onderneem in ooreenkoms met die gepubliseerde maatstawwe of REIPPPP Bid Window 4. Die RFP vir die risiko-mitigasie IPP-verskaffingsprogram en Bid Window 5 het bykomende vereistes in terme van opwekkingsversekering wat die batteryberging en gasturbineopsetting (en bykomende brandstofberging) insluit en om te verseker dat die fasiliteit die opwekkiingsmandaat ondanks weerstoestande kan bereik.

Dit beteken dat 167MWh se Lithium-ioon batteryberging, gelykstaande aan twee-en-twintig (22) veertig voet (40')-vraghouers. Elke vraghouer se afmetings is 12.2(l) x 2.43(b) x 2.59(h) met 'n kollektiewe voetspoor van sowat 667m². Bykomend sal vyf (5) gasturbines nodig wees om <10MW ekstra energie op te wek. Elke turbine sal die voetspoor van 'n 40'-houer laat. Bogrondse LNG en/of LPG en/of dieselberging van minder as 30m³ sal nodig wees om die turbines van brandstof te voorsien.

POSISIE



Figuur 1. Omgewingskaart en Sensitiwiteitskaart van voorgestelde ontwikkeling.

MEMBERS: J.A. Bowers (M Tech, Pr.Sci.Nat., MGSSA) & S.D. MacGregor (MSc., Pr.Sci.Nat.)
Reg: 2006/023163/23

DOELWIT VAN DIE WYSIGINGSPROSES

Die oorhoofse doelwit is om 'n sterk en verdedigbare oorsig te onderneem en te voltooi wat sal dien om die Departement van Omgewingsake, Bosbou en Visserye (DEFF) in te lig vir 'n besluit oor die omgewingsaanvaarbaarheid vir voorgestelde wysigings.

Die voorgestelde gebied is op Plaas Waschklip 183 (Soventix SA Saldanha 1) binne die Saldanha Bay Distrik Munisipaliteit, in die Weskaap provinsie.

TAAKBESKRYWING

- 'n Advertensie sal op 29 Januarie 2021 in **Die Burger**, 'n provinsiale koerant, geplaas word.
- 'n Soortgelyke advertensie sal op 28 Januarie 2021 in die **Weslander** koerant geplaas word.
- Aandeelhouers, insluitend aangrensende grondeienaars, bure binne 'n 100m-radius en die betrokke outoriteite sal skriftelik van die voorgenome projek op 26 Januarie 2021 ingelig word.
- Kennisgewingsborde met die aansoeke sal op 05 Februarie 2021 op die perseel aangebring word.
- 'n Virtuele openbare vergadering sal op versoek van belanghebbendes gehou word.

VERWAGTE KWESSIES

Kwessies wat in die omgewingswaardasie aangespreek mag word (maar nie daartoe beperk word nie):

- Moontlike grondbesoedeling deur lekkende batterye en waterkoolstoflekkasies uit gasturbines indien die houers die inhoud nie kan inhou nie.
- Bykomende impak van afvalbeheer wat gemoeid is met die herwinning van leë batterye. Die verwagte batterylewe is 20 jaar. Enige voorkoms van grondbesoedeling sal as gevaarlike afval verwyder word of op die perseel biologies herstel word.
- Die impak van toenemende kweekhuysgasuitlatings uit gasturbines op die lugkwaliteit.
- Die opraak van onvervangbare bronne soos LNG en/of LPG en/of Diesel.

KOMMENTAAR ASSEMBLIE!

U kommentaar op die voorgestelde wysigingsaansoek, die openbare deelnemingsproses en sake wat ondersoek nodig het, sal die uitvoerders bystaan in hul oorweging van die betrokke sosiale en omgewingsaspekte.

Mitigasies

Mitigasiemaatstawwe sal vir die verwagte kwessies of impakte ontwikkel word. Aandeelhouers is nietemin welkom op hierdie kwessies kommentaar te lewer en addisionele opmerkings te gee.

Alternatiewe

Een van die belangrikste elemente van hierdie proses is om die alternatiewe te oorweeg. Die doel daarvan is om 'n raamwerk daar te stel vir helder besluitneming wat op die beginsel van volhoubare ontwikkeling gebaseer is. Alternatiewe moet so gou moontlik in die projeksiklus geïdentifiseer word.

Ecoleges verwelkom insette en voorstelle van aandeelhouders ten einde doenbare alternatiewe te kan oorweeg.

Dit is belangrik dat 'n alternatief gesien word as 'n ander manier om in dieselfde algemene doel en vereistes van die aktiwiteit te dien, wat kan insluit:

- (a) Die eiendom waarop voorgestelde bedrywigheid onderneem word;
- (b) Die tipe bedrywigheid wat onderneem word;
- (c) Die ontwerp en uitleg van die bedrywigheid;
- (d) Die tegnologie wat in die bedrywigheid gebruik sal word;
- (e) Die operasionele aspekte van die bedrywigheid en
- (f) Die opsie om nie die bedrywigheid te implementeer nie.

Wanneer alternatiewe voorgele word, moet dit:

- Uitvoerbaar,
- Doenlik,
- Relevant,
- Redelik en
- Lewensvatbaar wees.

Behoeftte en Wenslikheid

Behoeftte en wenslikheid word bepaal deur die inagneming van die breër gemeenskapsbehoefttes en -belange. Die algemene betekenis van behoefte en wenslikheid verwys na tyd en plek, te wete of hierdie die regte tyd en die regte plek vir hierdie voorgestelde projek is.

Ten einde te verseker dat u as belanghebbende en/of geraakte party geregistreer is, voltooi asseblief die ingeslote vorm vir REGISTRASIE EN KOMMENTAAR en stuur dit na die onderstaande adres, faks of epos:

Posadres: Posbus 516, Machadodorp, 1170

Faks: 086 697 9316

Epos: info@ecoleges.co.za

Selfoon: 083 644-7179

REGISTRASIE EN KOMMENTAARVORM

DEEL 2-WYSIGING VAN DIE OMGEWINGSOUTORISASIE VIR DIE ONTWIKKELING VAN 'N SONKRAG PV-FASILITEIT OP PLAAS WASCHKLIP 183 (SOVENTIX SA SALDANHA 1) BINNE DIE SALDANHA BAY DISTRIK MUNISIPALITEIT, IN DIE WESKAAP PROVINSIE.

ECOLEGES VERWYSING: 2020_005P

Titel: _____ Naam: _____
Van: _____
Maatskappy/Belangegroep: _____

*Pos- of Woonadres: _____

Dorp/Stad: _____
Poskode: _____
Tel: (_____) _____
Selfoon: _____
Faks: (_____) _____
Epos adres: _____
<i>'n Geregistreerde belanghebbende party is geregtig om geskrewe kommentaar op alle geskrewe voorleggings te lewer, insluitend voorlopige verslae wat aan die betrokke outoriteit voorgelê is. Dit is met die voorwaarde dat dié party alle regstreekse finansiële, persoonlike of sakebelange sal toon wat in die aanvaarding of weiering van die aansoek mag tel. Voorsien asseblief die inligting in die ruimte hieronder:</i>

Dui asseblief met 'n **X** aan indien u inligting oor die Deel 2 EA-wysigingsprojek wil ontvang:

JA, ek wil ingelig word	
NEE, ek stel nie belang nie	

Indien "JA", hoe wil u ingelig word? (Merk asb. gepaste blokkie met **X**)

E-pos	
Faks	

KOMMENTAAR: (Indien u meer spasie nodig het as wat voorsien is, kan u bladsye aanheg)

Dankie vir u deelname

Wees verseker dat u kommentaar deel van die finale dokument sal wees wat aan die besluitnemende gesag voorgelê word.

Annexure E – BID Distribution via Registered Mail and Email

REGISTERED LETTER GEREGISTREERDE BRIEF (with an insurance option/met 'n versekeringsopsie)		Post Office	
Full tracking and tracing/Volledige volg en spoor		Postage paid R _____ C Service fee/Diensgeld R _____ C Insurance/Versekering R _____ C Total/Totaal R _____ C	
Addressed to/Geadresseer aan MR CHARLES MALHERBE BOX 242 MOORRESBURG 73110 Postcode Postkode		Insured value of contents Versekerde waarde van inhoud R _____ C	
The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Optional insurance up to R2 000.00 is available and applies to domestic registered letters only. Die waarde van die inhoud van hierdie brief is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 000.00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.		Enquiries/Navrae Toll-free number Tolvry nommer 0800 111 502	Initial of accepting officer 
		Affix Track and Trace ORDINARY PARCEL PE 556 090 059 ZA A BOOK COPY kliëntafskrif	Date stamp 

REGISTERED LETTER GEREGISTREERDE BRIEF (with an insurance option/met 'n versekeringsopsie)		Post Office	
Full tracking and tracing/Volledige volg en spoor		Postage paid R _____ C Service fee/Diensgeld R _____ C Insurance/Versekering R _____ C Total/Totaal R _____ C	
Addressed to/Geadresseer aan MRS ALANA DUFFEL CATHAM PRIVATE BAG 2504 STELLENBOSCH 71909 Postcode Postkode		Insured value of contents Versekerde waarde van inhoud R _____ C	
The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Optional insurance up to R2 000.00 is available and applies to domestic registered letters only. Die waarde van die inhoud van hierdie brief is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 000.00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.		Enquiries/Navrae Toll-free number Tolvry nommer 0800 111 502	Initial of accepting officer 
		Affix Track and Trace ORDINARY PARCEL PE 556 090 093 ZA A BOOK COPY kliëntafskrif	Date stamp 

REGISTERED LETTER GEREGISTREERDE BRIEF (with an insurance option/met 'n versekeringsopsie)		Post Office	
Full tracking and tracing/Volledige volg en spoor		Postage paid R _____ C Service fee/Diensgeld R _____ C Insurance/Versekering R _____ C Total/Totaal R _____ C	
Addressed to/Geadresseer aan MRS CHARTEL UD MAWES MR PHETHE SMART P.O. BOX 283 DARLING 7345 Postcode Postkode		Insured value of contents Versekerde waarde van inhoud R _____ C	
The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Optional insurance up to R2 000.00 is available and applies to domestic registered letters only. Die waarde van die inhoud van hierdie brief is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 000.00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.		Enquiries/Navrae Toll-free number Tolvry nommer 0800 111 502	Initial of accepting officer 
		Affix Track and Trace ORDINARY PARCEL PE 556 090 116 ZA A BOOK COPY kliëntafskrif	Date stamp 

REGISTERED LETTER GEREGISTREERDE BRIEF (with an insurance option/met 'n versekeringsopsie)			
Full tracking and tracing/Volledige volg en spoor		Postage paid R _____ C Service fee/Diensgeld R _____ C Insurance/Versekering R _____ C Total/Totaal R _____ C	
Addressed to/Geadresseer aan MR. PIETRE DEL P.O. BOX 05 LANZEBaan WEG 7375 Postcode Postkode		Insured value of contents Versekerde waarde van inhoud R _____ C Enquiries/Navrae Toll-free number Tolvry nommer 0800 111 502	Initial of accepting officer
The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Optional insurance up to R2 000.00 is available and applies to domestic registered letters only. Die waarde van die inhoud van hierdie brief is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 000.00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.		Affix Track and Trace ORDINARY PARCEL PE 556 090 133 ZA A BOOK COPY kliëntatstkn	Date stamp Datumstempel

REGISTERED LETTER GEREGISTREERDE BRIEF (with an insurance option/met 'n versekeringsopsie)			
Full tracking and tracing/Volledige volg en spoor		Postage paid R _____ C Service fee/Diensgeld R _____ C Insurance/Versekering R _____ C Total/Totaal R _____ C	
Addressed to/Geadresseer aan Air Force Base Langebaan weg Att. The Colonel P.O. Langebaan 7375 Postcode Postkode		Insured value of contents Versekerde waarde van inhoud R _____ C Enquiries/Navrae Toll-free number Tolvry nommer 0800 111 502	Initial of accepting officer
The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Optional insurance up to R2 000.00 is available and applies to domestic registered letters only. Die waarde van die inhoud van hierdie brief is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 000.00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.		Affix Track and Trace INSURED PARCEL PA 326 256 514 ZA CUSTOMER COPY 301012	Date stamp Datumstempel

REGISTERED LETTER GEREGISTREERDE BRIEF (with an insurance option/met 'n versekeringsopsie)			
Full tracking and tracing/Volledige volg en spoor		Postage paid R _____ C Service fee/Diensgeld R _____ C Insurance/Versekering R _____ C Total/Totaal R _____ C	
Addressed to/Geadresseer aan WILHELM AMERICA PRIVATE BAG 212 UABENBURG 7380 Postcode Postkode		Insured value of contents Versekerde waarde van inhoud R _____ C Enquiries/Navrae Toll-free number Tolvry nommer 0800 111 502	Initial of accepting officer
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From: Hlengile <hlengile@ecoleges.co.za>
Sent: Monday, 22 February 2021 4:03 PM
To: 'danielsd@dws.gov.za' <danielsd@dws.gov.za>; 'mwheeler@capenature.co.za' <mwheeler@capenature.co.za>; 'brandonl@elsenburg.com' <brandonl@elsenburg.com>; 'info@capebiosphere.co.za' <info@capebiosphere.co.za>; 'PierreN@sanparks.org' <PierreN@sanparks.org>
Subject: Written notification of application for a Part 2 EA Amendment (12/12/20/2126 & 12/12/20/2126/1)
Importance: High

Good afternoon Interested and Affected Parties,

Kindly confirm receipt of the below email and its attachments.

Yours sincerely,
Hlengile Mtsweni (N Dip, Env. Sci.)
Environmental Consultant



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Mobile: +27 (0)83 644 7179

Fax: 086 697 9316

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To: 'bstanley@wcdm.co.za' <bstanley@wcdm.co.za>; 'danielsd@dws.gov.za' <danielsd@dws.gov.za>; 'aduffell-canham@capenature.co.za' <aduffell-canham@capenature.co.za>; 'mwheeler@capenature.co.za' <mwheeler@capenature.co.za>; 'brandonl@elsenburg.com' <brandonl@elsenburg.com>; 'Jandre.Bakker@wc.gov.za' <Jandre.Bakker@wc.gov.za>; 'thandoNd@daff.gov.za' <thandoNd@daff.gov.za>; 'info@capebiosphere.co.za' <info@capebiosphere.co.za>; 'PierreN@sanparks.org' <PierreN@sanparks.org>
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Sent: Wednesday, 17 February 2021 10:09 AM
To: 'bstanley@wcdm.co.za' <bstanley@wcdm.co.za>; 'danielsd@dws.gov.za' <danielsd@dws.gov.za>; 'aduffell-canham@capenature.co.za' <aduffell-canham@capenature.co.za>; 'mwheeler@capenature.co.za' <mwheeler@capenature.co.za>; 'melanese.schippers@pgwc.gov.za' <melanese.schippers@pgwc.gov.za>; 'brandonl@elsenburg.com' <brandonl@elsenburg.com>; 'Jandre.Bakker@wc.gov.za' <Jandre.Bakker@wc.gov.za>; 'thandoNd@daff.gov.za' <thandoNd@daff.gov.za>; 'CMusemburi@environment.gov.za' <CMusemburi@environment.gov.za>; 'AEssop@environment.gov.za' <AEssop@environment.gov.za>; 'jacokotzelangebaan@gmail.com' <jacokotzelangebaan@gmail.com>; 'travesh.ramkhelawan@arcelormittal.com' <travesh.ramkhelawan@arcelormittal.com>; 'info@capebiosphere.co.za' <info@capebiosphere.co.za>; 'aubrey.fourie@pamgolding.co.za' <aubrey.fourie@pamgolding.co.za>; 'PierreN@sanparks.org' <PierreN@sanparks.org>
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Sent: Tuesday, 09 February 2021 8:58 AM
To: 'Townplanning@sbm.gov.za' <Townplanning@sbm.gov.za>; 'Eventhia.vaughan@sbm.gov.za' <Eventhia.vaughan@sbm.gov.za>; 'wimpie.america@sbm.gov.za' <wimpie.america@sbm.gov.za>; 'bstanley@wcdm.co.za' <bstanley@wcdm.co.za>; 'Cjmalherbe@wcdm.co.za' <Cjmalherbe@wcdm.co.za>; 'danielsd@dws.gov.za' <danielsd@dws.gov.za>; 'aduffell-canham@capenature.co.za' <aduffell-canham@capenature.co.za>; 'melanese.schippers@pgwc.gov.za' <melanese.schippers@pgwc.gov.za>; 'brandonl@elsenburg.com' <brandonl@elsenburg.com>; 'Jandre.Bakker@wc.gov.za' <Jandre.Bakker@wc.gov.za>; 'thandoNd@daff.gov.za' <thandoNd@daff.gov.za>; 'jacokotzelangebaan@gmail.com' <jacokotzelangebaan@gmail.com>; 'Ceoheritage@westerncape.gov.za' <Ceoheritage@westerncape.gov.za>; 'Colette.Scheermeyer@westerncape.gov.za' <Colette.Scheermeyer@westerncape.gov.za>; 'Waseefa.Dhansay@westerncape.gov.za' <Waseefa.Dhansay@westerncape.gov.za>; 'travesh.ramkhelawan@arcelormittal.com' <travesh.ramkhelawan@arcelormittal.com>; 'info@capebiosphere.co.za' <info@capebiosphere.co.za>; 'aubrey.fourie@pamgolding.co.za' <aubrey.fourie@pamgolding.co.za>; 'pjh@fossilpark.org.za' <pjh@fossilpark.org.za>; 'PierreN@sanparks.org' <PierreN@sanparks.org>
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Environmental Consultant



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Sent: Tuesday, 02 February 2021 12:41 PM
To: 'heinrich.mettler@sbm.gov.za' <heinrich.mettler@sbm.gov.za>; 'benice.rossouw@sbm.gov.za' <benice.rossouw@sbm.gov.za>; 'Townplanning@sbm.gov.za' <Townplanning@sbm.gov.za>; 'dries.venter@sbm.gov.za' <dries.venter@sbm.gov.za>; 'Eventhia.vaughan@sbm.gov.za' <Eventhia.vaughan@sbm.gov.za>; 'wimpie.america@sbm.gov.za' <wimpie.america@sbm.gov.za>; 'bstanley@wcdm.co.za' <bstanley@wcdm.co.za>; 'Cjmalherbe@wcdm.co.za' <Cjmalherbe@wcdm.co.za>; 'aduffell-canham@capenature.co.za' <aduffell-canham@capenature.co.za>; 'melanese.schippers@pgwc.gov.za' <melanese.schippers@pgwc.gov.za>; 'brandonl@elsenburg.com' <brandonl@elsenburg.com>; 'Jandre.Bakker@wc.gov.za' <Jandre.Bakker@wc.gov.za>; 'thandoNd@daff.gov.za' <thandoNd@daff.gov.za>; 'jacokotzelangebaan@gmail.com' <jacokotzelangebaan@gmail.com>; 'Ceoheritage@westerncape.gov.za' <Ceoheritage@westerncape.gov.za>; 'Colette.Scheermeyer@westerncape.gov.za' <Colette.Scheermeyer@westerncape.gov.za>; 'Waseefa.Dhansay@westerncape.gov.za' <Waseefa.Dhansay@westerncape.gov.za>; 'ThabetheT@caa.co.za' <ThabetheT@caa.co.za>; 'travesh.ramkhelawan@arcelormittal.com' <travesh.ramkhelawan@arcelormittal.com>; 'info@capebiosphere.co.za' <info@capebiosphere.co.za>; 'aubrey.fourie@pamgolding.co.za' <aubrey.fourie@pamgolding.co.za>; 'pjh@fossilpark.org.za' <pjh@fossilpark.org.za>; 'PierreN@sanparks.org' <PierreN@sanparks.org>
Subject: Written notification of application for a Part 2 EA Amendment (12/12/20/2126 & 12/12/20/2126/1)
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From: Hlengile <hlengile@ecoleges.co.za>

Sent: Friday, 29 January 2021 11:45 AM

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Subject: Written notification of application for a Part 2 EA Amendment (12/12/20/2126 & 12/12/20/2126/1)

Importance: High

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Sent: Tuesday, 26 January 2021 16:24
To: 'heinrich.mettler@sbm.gov.za'; 'benice.rossouw@sbm.gov.za'; 'Townplanning@sbm.gov.za'; 'Gary.Tomlinson@sbm.gov.za'; 'Nazeema.Duarte@sbm.gov.za'; 'Gavin.Williams@sbm.gov.za'; 'Junius.Minnaar@sbm.gov.za'; 'westcoastdm@wcdm.co.za'; 'dkotze@wcdm.co.za'; 'Zaahir.Toefy@westerncape.gov.za'; 'Keagan-Leigh.Adriaanse@westerncape.gov.za'; 'aduffell-canham@capenature.co.za'; 'melanese.schippers@pgwc.gov.za'; 'Lance.McBain-Charles@pgwc.gov.za'; 'brandonl@elsenburg.com'; 'RodB@pgwc.biz'; 'thandoNd@daff.gov.za'; 'jacokotzelangebaan@gmail.com'; 'Jenna.Lavin@pgwc.gov.za'; 'Calvin.vanWijk@westerncape.gov.za'; 'abhall@westerncape.gov.za'; 'IsherwoodC@caa.co.za'; 'PretoriusK@caa.co.za'; 'wyngaajo@eskom.co.za'; 'travesh.ramkhelawan@arcelormittal.com'; 'info@birdlife.org.za'; 'info@capebiosphere.co.za'; 'aubrey.fourie@pamgolding.co.za'; 'keithhbharrison@lando.co.za'; 'pjh@fossilpark.org.za'; 'deon@vula.biz'; 'PierreN@sanparks.org'; 'Adri La Meyer'; 'Taryn Dreyer'; 'Keagan-leigh Adriaanse'; 'Eldon van Boom'; 'Maboe Nthejane'
Cc: 'Jean-Paul de Villiers - Soventix SA PTY Ltd.'; 'justin@ecoleges.co.za'
Subject: Written notification of application for a Part 2 EA Amendment (12/12/20/2126 & 12/12/20/2126/1)
Importance: High

Good afternoon Interested and Affected Parties,

Kindly find attached the Background Information Documents (BIDs) for the Environmental Authorisation (EA) Part 2 Amendment Applications for the proposed construction of the 100MW commercial solar electricity generation facility and its infrastructure, including containerised lithium-ion battery storage and gas turbines and associated fuel storage on Farm Waschkliip 183, (Soventix SA Saldanha 1(SS1)) and Farm Everts Hope 190, (Soventix SA Saldanha 2 (SS2)), near Langebaan, within the Saldanha Bay District Municipality in the Western Cape Province. You have recently received communication regarding these projects which related to **Part 1** EA Amendments which were granted on the 04th of December 2020, which is not to be confused with the current **Part 2** amendment applications.

Please take the time to review the BIDs and register should you have an interest in, or be affected by, the proposed developments. **Also please reply with your cell phone numbers to be included in the projects' WhatsApp Broadcast Forum.**

We are in the process of identifying and/or revising all potential interested and affected parties, and wish to include all organs of state which have jurisdiction in respect of the activity to which the application relates. One such method of achieving this is the 'Network' or 'Chain Referral System'. Please can you be so kind as to provide us with the name and contact details of the relevant person(s) with whom you recommend we should engage with regard to this project and amendment application.

Do not hesitate to contact us should you have any queries or concerns.

Kind Regards,

Hlengile Mtsweni (N Dip, Env. Sci.)
Environmental Consultant



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Annexure F – Advertisement Wording

PUBLIC PARTICIPATION PROCESS (PPP) NOTICE TO UNDERTAKE A PART 2 AMENDMENT APPLICATION TO ENVIRONMENTAL AUTHORISATION (EA) - DEFF REF NO.: 12/12/20/2126 & 12/12/20/2126/1

Notice is given in terms of Regulation 32 & 41(2)(c) of the Environmental Impact Assessment (EIA) Regulations (GG No. 38282, GN No. 982, 04 December 2014) as amended; taking into consideration the Public Participation Guideline Document (DEA, 2017) for the application to amend Environmental Authorisations (12/12/20/2126 & 12/12/20/2126/1), on Farm Waschklip 183, (Soventix SA Saldanha 1) and Farm Everts Hope 190, (Soventix SA Saldanha 2), near Langebaan, within the Saldanha Bay District Municipality in the Western Cape Province.

In terms of Chapter 5, Regulation 31 of the EIA Regulations (2014) as amended, the applications for the inclusion of containerized lithium-ion battery storage and gas turbines (with a combined generation capacity of <10MW and associated storage of Liquefied Petroleum Gas (LPG) and/or Liquefied Natural Gas (LNG) and/or Diesel of less than 30m³), to the Solar Photo-Voltaic (PV) facility, is subject to a Part 2 amendment to the current Environmental Authorisations (EA).

Should you require further information, want to make representations in respect of the application and/or request to be registered as an Interested and Affected Party, kindly submit in writing your name, contact details including postal & email address, and interest in the matter to the contact person and in the manner(s) provided below; within 30 days of the date of this advertisement. Date of publication of this notice: 28th or 29th of January 2021.

Applicant: Soventix South Africa (Pty) Ltd

Consultant: Ecoleges Environmental Consultants

Contact person: Justin Bowers, Cell: 083 644 7179, Fax: 086 697 9316, e-mail: info@ecoleges.co.za, PO Box 516, Machadodorp, 1170, www.ecoleges.co.za.

KENNISGEWINGS & POSTE

PUBLIC PARTICIPATION PROCESS (PPP) NOTICE TO UNDERTAKE PART 2 AMENDMENT APPLICATIONS TO ENVIRONMENTAL AUTHORISATIONS (EA) - DEFF REF NO.: 12/12/20/2126 & 12/12/20/2126/1

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Applicant: Soventix South Africa (Pty) Ltd
Consultant: Ecologes Environmental Consultants
Contact person: Justin Bowers, Cell: 083 644 7179,
Fax: 086 697 9316, e-mail: info@ecologes.co.za, PO Box 516, Machadoodorp, 1170, www.ecologes.co.za.

NOTICE OF INTENTION TO APPLY FOR A LOST DEED

Notice is hereby given in terms of regulation 66 of the Deeds Register Act, 1987, of the intention to apply for the issue of a certified copy of Deed of Transfer Number T30343/2012 passed by DOUMA FAMILY TRUST in favour of GEORGE FREDERICK VAN NIEKERK and MARILJA VAN NIEKERK in respect of certain ERF 3720 LANGESAAN situated in the SALDANHA BAY MUNICIPALITY DIVISION MALMEBURY which has been lost or destroyed.

All interested persons having objection to the issue of such copy are hereby requested to lodge the same in writing with the Registrar of Deeds at ROOM 1216, 12TH Floor, 90 PLEIN STREET, CAPE TOWN within two weeks after the date of the publication of this notice.

Dated at Langebaan this 25th day of January 2021.

Applicant: GEORGE FREDERICK VAN NIEKERK and MARILJA VAN NIEKERK
 conveyancer: MELANIE VOORNHAGE ATTORNEYS
 Seefskuur Street, Langebaan, 7357
 e-mail: melanie@melanievornhageattorneys.co.za
 telephone: 022 7721353

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OPERATIONS & MAINTENANCE ROLE PROFILE

Job Title	Renewable Operations & Maintenance Technician
Department	O&M
Main objective of the role	Accountable and responsible for wind turbine inspection and to ensure that the site's equipment is maintained in order to continue operating at its full capacity, availability and safe operation.
Employment Type	Permanent Position
Remuneration package (CTC)	Negotiable

Qualification Requirements

- Grade 12
- Diploma in Electrical Engineering or N3 with Electrical Trade Certificate
- PV Certification (added advantage)
- Wind energy Certification (added advantage)

Experience Requirements

- 5 years or more of wind energy experience
- 3 – 5 years working experience in electrical systems
- 3 – 5 years working experience in the maintenance environment
- 3 – 5 years on permit to work system
- Medium or High Voltage and Switching experience (added advantage)
- SCADA certification or extensive knowledge
- Analytic ability (Fault analysis using history or trend data)
- CMS (Condition Monitoring System) knowledge or understanding
- Understanding HSEQ and be able to be OHS act compliant
- Permit to work system

Other Requirements

- Driver's License
- Reside in the West Coast
- GWO or Fire Fighting & First Aid certification

Responsibilities

- Carry out wind turbine inspections
- Routine inspections on electrical equipment, wiring, cables and other related components to ensure equipment's full functionality, availability and safety as per the guideline stipulated on the maintenance manuals and standards
- Conduct routine tests and measurements on equipment, record the test results and analyze the data
- Conduct site inspections on all equipment, structures and facilities
- Perform preventative and scheduled maintenance activities
- Perform troubleshooting during fault conditions
- Maintain records for all maintenance and repair work conducted onsite, including records of spares utilized
- Compile and submit Weekly and Monthly site reports based on (but not limited) conducted inspections and routine maintenance
- Oversee site personnel and contractors
- Manage the site's Health, Safety and Environment requirements and ensure adherence thereof
- Conduct infra-red scanning on equipment as per Maintenance Plan
- Manage the site's Maintenance Plan and ensure that all the maintenance activities are executed timeously
- Issue permit to work


Required Competencies (Skills, Knowledge and Attributes):

- Ethical, Reliable, Versatile and Professional
- Good, clear and explicit written, verbal and non-verbal communication
- Computer literacy (Microsoft Office Suite)
- Analytical with attention to detail
- Interpretation and/or understanding of electrical drawings, standards and procedures
- Logical, systematic and process thinking
- Self-driven, self-disciplined and be able to work independently
- Report writing skills
- Good inter-personal skills
- Be able to work under pressure

Work conditions:

- Physically fit (be able to lift up to 30kg weights)
- Manual dexterity
- 24/7 availability may be required
- Able to work overtime, including night times and stand-by

Please forward applications to Etienne Frans at etienne.frans@engle.com



LEARNERSHIP OPPORTUNITY SALDANHA

The following learnership for unemployed persons exists in our Processing/Operations Division

POSITION: LEARNERSHIP – FFO PROCESSING

REPORTING TO: Respective Processing Manager/Supervisor & Facilitator

RESPONSIBILITIES:

- Structured practical (on the job) exposure (70%) and structured theoretical training periods (30%)

DURATION:

- 12 Months

REQUIREMENTS:

- Applicants are invited to apply by emailing (no hard copies will be accepted) a detailed cv together with all the required supporting documents as listed below:
- Certified copy of ID(X3)
- Certified copies of matric certificate
- Full CV with references

As part of our screening process you will be required to pass a literacy, numeracy and medical assessment which includes drug screening

Interested parties who meet the requirements, may submit their CV to the:
 HR Business Partner at recruitsaladmin@seaharvest.co.za
 Tel: 022-7014208

CLOSING DATE: Friday 5 February 2021 at 12:00

ALL APPOINTMENTS ARE MADE IN LINE WITH OUR EMPLOYMENT EQUITY STRATEGY

If you do not receive a response within 14 days of closure of this advert, regard your application as unsuccessful.

Annexure H – List of Interested and Affected Parties

Table 35: I&AP Register including contact details.

Name	Cell	Phone	Fax	Email
CLIENT				
Jean-Paul de Villiers	082 550 6672	021 852 7333		jp.devilliers@soventix.com
LANDOWNER (ArcelorMittal)				
Travesh Ramkhelawan	083 468 1607	016 889 9111		travesh.ramkhelawan@arcelormittal.com
SALDANHA BAY LOCAL MUNICIPALITY - 022 714 8000				
Municipal Manager				
Mr Heinrich Mettler		022 701 7173		heinrich.mettler@sbm.gov.za
Ms Benice Rossouw (PA)				benice.rossouw@sbm.gov.za
Mayor's Office				
Elza Smith				elza.smith@sbm.gov.za
Town Planner				
Gary Tomlinson (Snr Town Planner)		022 701 6981		Gary.Tomlinson@sbm.gov.za
Env & Heritage Officer				
Ms Nazeema Duarte	081 024 7311	022 701 7116		Nazeema.Duarte@sbm.gov.za
Infrastructure				
Mr G Williams	073 209 4175	022 701 7047		Gavin.Williams@sbm.gov.za
Mr Junius Minnaar	071 8608 029	022 701 7091		Junius.Minnaar@sbm.gov.za
Mr Quintin Williams				Quintin.Williams@sbm.gov.za
Ward Councillors				
Dries Venter (Ward 6)				dries.venter@sbm.gov.za
Eventhia Vaughan (Ward 8)				Eventhia.vaughan@sbm.gov.za
Wilhelm America (Ward 14)				wimpie.america@sbm.gov.za
WEST COAST DISTRICT MUNICIPALITY				
Municipal Manager				
Mr David Joubert		022 4338400		mm@wcdm.co.za

				mun@wcdm.co.za
Town and Regional Planner				
Mrs Dorethea Kotze				dkotze@wcdm.co.za
Environmental Officer				
Mr Charles Malherbe		0224338400		Cjmalherbe@wcdm.co.za
PROVINCIAL GOVERNMENT				
Environmental Affairs and Development Planning				
Adri La Meyer		021 483 2887		Adri.Lameyer@westerncape.gov.za
DWS				
Derril Daniels	082 370 3556	021 941 6189		danielsd@dws.gov.za
Cape Nature				
Marius Wheeler		022 931 2900		mwheeler@capenature.co.za
Ismat Adams (Conservation Officer)	072 664 0698	087 087 3188		iadams@capenature.co.za
DEA&DP Land Use				
Ms Melanese Schippers				melanese.schippers@pgwc.gov.za
Department of Agriculture				
Mr Brandon Layman				brandonl@elsenburg.com
Department of Transport & PW				
Jandre Bakker		021 483 8513		Jandre.Bakker@wc.gov.za
DAFF				
Thando Ndudula	066 347 8170	021 944 1416		thandoNd@daff.gov.za
NATIONAL GOVERNMENT				
Department of Environment, Forestry and Fisheries (DEFF)				
Constance Musemburi		012 399 9416		CMusemburi@environment.gov.za
Azrah Essop	063 684 3605	012 399 8529		AEssop@environment.gov.za
Ms. Mmatlala Rabothata				MRabothata@environment.gov.za
Ms. Tsholofelo Sekonko				tsekonko@environment.gov.za

Ms. Aulicia Maifo				amaifo@environment.gov.za
ORGANIZATIONS & NEIGHBOURS				
SAHRA				
LOAD PROJECT ONTO SAHRIS WEBSITE				
South African Air Force				
Col EP De Villiers				Air Force Base Langebaanweg Post Office Langebaanweg 7375
Langebaan Ratepayers				
Mr Jaco Kotze	082 889 0685			jacokotzelangebaan@gmail.com
Heritage Western Cape				
CEO of Heritage Western Cape				Ceoheritage@westerncape.gov.za
Colette Scheermeyer				Colette.Scheermeyer@westerncape.gov.za
Waseefa Dhansay				Waseefa.Dhansay@westerncape.gov.za
Civil Aviation Authority				
Themba Thabethe (Regional Manager)	067 417 2022			ThabetheT@caa.co.za
BirdlifeSA				
M Anderson				info@birdlife.org.za
Cape West Coast Biosphere Reserve				
Chantel van der Merwe				info@capebiosphere.co.za
Mr Rhett Smart				
Long Acres Home Owners Assoc.				
Mr Aubrey Fourie	082 458 5757	022 783 1511		aubrey.fourie@pamgolding.co.za
West Coast Bird Club				
Mr Keith Harrison				keithbharrison@lando.co.za
West Coast Fossil Park				
Ms Pippa Haarhoff		022 766 1606		pjh@fossilpark.org.za

Deon van Eeden - Vula Env'l Services (Chemfos Mine)	082 564 5748			deon@vula.biz
				pa@vula.biz
West Coast National Park				
Mr Pierre Nel		022 772 2144		PierreN@sanparks.org
SERVITUDE HOLDERS				
ESKOM				
Ms Justine Wyngaardt				wynqaajo@eskom.co.za
REQUESTED REGISTRATION				
GVJ Electrical				
Russell Sabor		021 511 3171/5		russell@gvj.co.za
Faeeda Emjedi				hr@gvj.co.za
Capt. Lance Tiedt	082 902 2771	022 783 1490		lance@tiedt.me

Annexure I – Comments and Response Sheet

Table 36: I&AP Comments and Response Sheet.

Name & Contact	Comment	Response
<p>Adri La Meyer Directorate: Development Facilitation Environmental Affairs and Development Planning Adri.Lameyer@westerncape.gov.za Email on 27/01/2021</p>	<p>Dear Hlengile,</p> <p>Thank you for your e-mail of 26 January 2021. Per my e-mail of 19 January 2021, please register this Department as a commenting authority for the Part 2 EA amendment application(s). You may exclude all other officials included in this e-mail from future e-mails related to the Part 2 EA amendment application(s) as I am responsible for notifying them of any correspondence received from you.</p> <p>Per the BIDs, the amendment application(s) entails the inclusion of a containerized lithium-ion BESS, gas turbines, and storage of dangerous goods on the Farm Waschklip No. 183, (Soventix SA Saldanha 1) and an exact duplication of the mentioned infrastructure on the Farm Everts Hope No. 190 (Soventix SA Saldanha 2). These additions are all below the thresholds for listed activities in LN 1. Have you however considered the applicability of Activity 10 of LN 3 of the NEMA EIA Regulations, 2014 (as amended), which would require a BA process as opposed to a Part 2 EA amendment application if the dangerous goods would be stored in containers exceeding 30m³?</p>	<p>Noted and we will be sure to send you all relevant documentation for review and comment. All other officials have been excluded and taken off the Interested and Affected Parties List.</p> <p>Thank you for identifying this possible threshold. We were not entirely sure where the “urban edge” for this area was and have requested the relevant shapefile from the town planner, but in all probability the sites will fall outside urban areas, in which case the on-site storage threshold will have to be reduced to 30m³. We will provide feedback to you once we get confirmation on the urban edge from the town planner and if needed will adjust our report narrative accordingly, and submit an amended application form together with the draft and final report to reflect the reduced on-site fuel storage. The reduced fuel storage does not pose a significant constraint on the operation of the site, as the gas turbines are only a backup for use in extreme conditions, and are unlikely to be used on a frequent basis. The close proximity of Saldanha town and</p>

	<p>Could you please confirm whether one (combined) or two (separate) Amendment Reports will be released for comment? Also, not being familiar with the history of the solar facility development, is there a combined EA or separate EA issued for the two properties mentioned above?</p> <p>Kindly note that Jenna Lavin, Andrew Hall and Calvin van Wijk are no longer with Heritage Western Cape. All correspondence must be addressed to the CEO of Heritage Western Cape, Colette Scheermeyer and Waseefa Dhansay (copied into this e-mail).</p> <p>Please note that I do not have an official cellular phone, but would welcome any future correspondence regarding this application via e-mail please.</p> <p>Kind regards, Adri</p>	<p>relative close proximity of Cape Town, allows for easy access to bulk fuel suppliers and delivery.</p> <p>Two reports will be submitted, as there are two environmental authorisations in place, one for each site. Would you like copies of the original EAs and amendments so long for your review and records?</p> <p>Thank you for directing us to the correct people.</p> <p>Noted and we'll be sure to send you all relevant correspondence as a commenting authority.</p>
<p>Russell Sabor</p> <p>Director For GVJ Vredenburg EC & I Contractors (Pty) Ltd Office: (021) 511 3171/5 Email: russell@gvj.co.za</p>	<p>Good day Justin</p> <p>DEFF Reference no : 12/12/20/2126 & 12/12/20/2126/1</p> <p>With regards to the above we would like to register as an Interested and Affected Party.</p>	<p>Good morning Russell,</p> <p>Thank you for the registration and company profile. You will be included in the distribution list for the report and outcome of the application.</p> <p>Regards,</p>

<p>Email on 01/02/2021</p>	<p>GVJ is a locally based company (Vredenburg) and has experience in the gas turbine/LPG/LNG and Solar Photo-Voltaic industries. We completed the Open Cycle Gas Turbines projects in Atlantis and Mossel Bay as well as 2 x Solar PV installations in De Aar and Kimberley.</p> <p>Attached is a copy of our Company Profile with a list of successfully completed projects.</p> <p>Hope you find our submission in order.</p> <p>Regards, Russell Sabor</p>	
<p>Capt. Lance Tiedt</p> <p>Phone 022 783 1490 Mobile 082 9022 77 1</p> <p>Email on 01/02/2021</p>	<p>Greetings</p> <p>Could I please be registered as a I&AP with respect to this project.</p> <p>Thank you.</p>	<p>Good afternoon Captain Lance,</p> <p>Thank you for your email below, you will be added to the I&AP register list.</p> <p>Regards,</p>
<p>Doretha Kotze (West Coast District Municipality)</p> <p>Stads- en Streekbeplanner/Town and Regional Planner</p>	<p>Sir/Madam</p> <p>I refer to your notification and the BIDs for the Part 2 Amendment applications dated 26 January 2021.</p>	<p>Noted with thanks!</p>

<p>Weskus Distriksmunisipaliteit Tel: 022 433 8523</p> <p>Email on 19/02/2021</p>	<p>Kindly register the West Coast District Municipality as a I & AP for the proposal.</p>	
<p>Mr Jaco Kotze (Langebaan Ratepayers)</p> <p>082 889 0685 jacokotzelangebaan@gmail.com</p> <p>Phone call on 24/02/2021</p>	<p>Mr Kotze has negative feelings about the project and says that it should not be allowed.</p>	<p>Mr Kotze was asked to fill in the registration form and note his concerns.</p>
<p>Ismat Adams Conservation Officer (Off) Ceder-Berg Conservation Operations tel: 087 087 3188</p> <p>Email on 03/03/2021, followed by a phone call on the same day.</p>	<p>Good day Hlengile</p> <p>Please could you send on the EA 12/12/20/2126/1 and the related EIA documents.</p> <p>Kind regards,</p>	<p>Hlengile Emailed the EA (12/12/20/2126/1) and will contact the previous consultant and ask for the EIA report.</p>

Annexure J - Copies of comments received

Not yet applicable.

APPENDIX B: SPECIALIST REPORTS & DECLARATIONS

Annexure 1: Greenhouse Gas Emissions Report

Annexure 2: Specialist Declarations

APPENDIX C: ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPR)

APPENDIX D: TITLE DEEDS