



APPLICATION FOR A CONNECTION OF A GENERATOR WITH CAPACITY GREATER THAN 1MW AND ASSOCIATED SUPPLY AT THE SAME POINT OF SUPPLY TO THE ESKOM NETWORK

01 July 2020

Introduction

(This form should be completed if the generator in question will be synchronised with the Eskom grid.)

This application form outlines the minimum information required by Eskom to conduct an evaluation of the feasibility of connecting a generator that will also consume from the same point of supply within Eskom's networks.

This application form is in two parts.

- 1. Part 1 must be filled in for Eskom to provide an (non-binding) estimate of the cost of connection.
- 2. If the required conditions are met to proceed with a budget quotation, Eskom will request Part 2 of the application form to be completed for the detailed interconnection and power system studies.

With effect from 01 October 2013, the Eskom policy in terms of the provision of Cost Estimate Letter (CEL) has changed. A fee will be raised and is payable prior to issuing CEL to the customer, where applicable. CEL is the initial indicative cost information that is provided for customer projects. Proof of payment of the Cost Estimate Fee is required within 10 working days of submitting the application form part 1 where after Eskom will commence with the cost estimate studies. The invoice for payment will be issued within a day of receipt of application form.

All of the information stipulated in this application form must be provided prior to the commencement of any work required to prepare a Cost Estimate Letter and ultimately if approved, any Budget Quotation. The technical cost of connection as well the network charges are determined for the applicant from the information supplied in this document. Technical findings and constraints derived from the provided information shall also be communicated to the relevant applicant.

Applicants should also note that an application for a temporary construction supply or for an increase in demand is separate from this application, and the applicant is required to follow the standard Eskom application process.

It should be noted that it is the applicant's responsibility to comply with the applicable technical, design and operational standards detailed in the South African Grid Code and the South African Distribution Code. Copies of the codes may be downloaded from NERSA's website www.nersa.org.za.

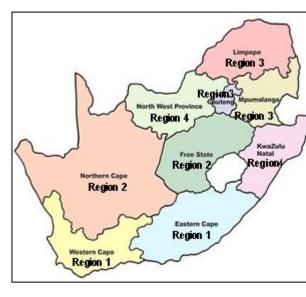
Eskom's specific technical requirements for the interconnection of embedded generation are described in a separate document, i.e. "Standard for the interconnection of embedded generation" (240-61268576). A copy of this standard will be provided on request. This application form may be completed as a hard copy or as a soft copy together with all supporting documentation. An electronic (soft copy) submission is preferred and can be submitted to the email addresses on the next page.

The customer will be contacted to confirm receipt of his/her application and provided with a reference number.



Grid Access Unit Contacts:

Region 1	Western Cape Eastern Cape	Mr Are van Zyl are.vanzyl@eskom.co.za Mr Bradley Box bradley.box@eskom.co.za Ms Mongi Moshweshwe mongi.moshweshwe@eskom.co.za Ms Tembi Plaatjie tembi.plaatjie@eskom.co.za Mr Lazola Ndondo Lazola.ndondo@eskom.co.za		
Region 2	Northern Cape	Ms Lebohang Motai lebohang.motoai@eskom.co.za Mr Mzwandile Madodonke Mzwandile.madodonke@eskom.co.za Mr Motlatsi Makhari Motlatsi.makhari@eskom.co.za Mr Moreetsi Balepile Moreetsi.balepile@eskom.co.za		
	Free State	Ms Lebohang Motai lebohang.motoai@eskom.co.za		
	Gauteng	Ms Lorato Loate lorato.loate@eskom.co.za		
Region 3	Limpopo	Mr Valmon Muller valmon.muller@eskom.co.za Modikoe Mokhene modikoe.mokhene@eskom.co.za		
	Mpumalanga	Ms Nthabiseng Llukhozi lukhozN@eskom.co.za; Ms Charmaine Masehela masehec@eskom.co.za		
1 4	North West	Mr Sibongo Simelane sibongo.simelane@eskom.co.za		
Region 4	Kwa-Zulu Natal	Mr Ravi Moonsamy Ravi.moonsamy@eskom.co.za		



For office use

Received by	
Date received	
Allocation of tracking GTX or project number	

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Eskom application form for a generator connection

Important information:

Note 1: Eskom will provide a Cost Estimate Letter within 90 days of receiving the proof of payment of the Cost Estimate Fee and the application form where connection works are at Distribution only and 120 days where initial studies indicate an upgrade of the Transmission network may be required to provide a connection. This period is however influenced by each project's complexities and may be negotiated with the customer upon establishing the dependencies and amount of initial Engineering Planning that needs to be done for each project. The following conditions should be complied with:

- · Completion in full of Part 1 of the application form (if not applicable please indicate as such);
- · Reasonable assurance of the right to develop on a proposed site, e.g. letter from landowner; and
- · Proof of payment of the Cost Estimate Fee (please see Cost Estimate Fees below)

Note 2: Once the application has been submitted, Eskom may contact the customer to discuss the following:

- · where should the facility be connected;
- the requirements in terms of the supply
- · grid configuration and voltages to use;
- estimated costs of connection based on proper network configuration and equipment boundaries and details;
- grid capacity available at nearest network;
- fault levels at nearest network;
- · define need to coordinate projects, determine requirements / risks for shared networks;
- · any potential Eskom plans that may impact on project proposals;
- any impact (e.g. lead times) on requested timetable; and
- Eskom to determine interdependent projects in public domain (as far as possible) (liaising with EIA consultants, DEA, NERSA, etc.).

Note 3: Eskom will request Part 2 of this application form to be filled in and proceed with a budget quotation only after the following conditions have been complied with, namely:

Where the Independent Power Producer (IPP) intends to submit bids in a regulated IPP purchase programme:

the entity responsible for procurement has to first pre-qualify the application.

For IPP applications that do not intend to be part of a regulated bid programme: (See Note 4)

- > a letter from NERSA indicating engagement on an application for a licence;
- > acceptance of the cost estimate conditions and the payment of the quotation fee;
- completion of Part 2 of the application form;
- > proof of land ownership/permission to use the land obtained;
- ➤ EIA progress, i.e. appointment of EIA consultant and confirmation from DEA approving the Scoping Report or Basic Assessment Report as may be applicable; and
- proof of reasonable viability of the proposed technology regarding the primary energy source.

Environmental Requirements:

Be aware of the fact that Statutory Approvals from all infrastructure providers and utilities are required for the building of the generation plant and associated activities, and that infrastructure traversing land needs to be protected by a servitude/s registered against the Title Deed of the affected property.

In order to expedite the customer's connection, the customer is advised to, as far as possible; integrate the environmental impact assessment (EIA) for the generation plant with the EIA for the Eskom connection assets. Please ensure to obtain separate EAs for the generation plant and Eskom assets to assist with easier transfer of servitudes, etc. to Eskom. The customer will be required to discuss the requirements and coordination of the EIA for the Eskom connection assets with Eskom, e.g. route

selection, design, evaluation and ranking of alternatives, environmental management programme (EMPr) for the construction phase(s), servitude conditions.

Cost Estimate Fees (2020/21 - updated annually)

The Cost Estimate Fee (CEF) is based on the Eskom employee labour rates and estimated hours to prepare a cost estimate of a certain Maximum Export Capacity (MEC). The following categories of MEC's and fees are applicable for the provision of a CEL.

CUSTOMER SUPPLY SIZE CATERGORY	APPLICABLE COST ESTIMATE FEE
0 – 1 MVA/MW (Minor process for qualifying LV connections)	Please refer to the application form on http://www.eskom.co.za/Whatweredoing/GAU/Pa
0 – 1MVA/MW (Major process)	ges/SmallMicro.aspx
> 1 MVA/MW ≤10 MVA/MW (major process)	R26 052.17+VAT =R29 960.00
> 10 MVA/MW ≤50 MVA/MW (Large)	R 66 991.30 + VAT = R77 040.00
> 50 MVA/MW (Very large)	R 100 521.74 + VAT = R115 600.00
Supply (NMD/MEC) downgrades if a CEL is required	R 16 765.22 + VAT = R19 280.00
Recoverable works (Minimum charge if a CEL is required)	R 16 765.22 + VAT = R19 280.00
Short Major Process (where no CEL is issued) ¹	R 16 765.22 + VAT = R19 280.00

Only one CEF shall be payable for both the Facility and the supply depending on the greater of the MEC or the Notified Maximum Demand (NMD). Please note that should the application for the facility and the supply not be done simultaneously, subsequent applications by the customer will be subject to a new CEF, where applicable.

Once the customer has submitted the application form, please request an official Eskom invoice, which will have the account number against which the payment must be made and the Eskom bank account which will also be provided on the invoice.

Applicability of Cost Estimate Fee:

- New applications
- Changes in supply capacity existing customers
- Recoverable works
- When more than one engineering study is requested at one connection point

Where more than one connection option is presented or requested in one CEL, only one fee is payable. However, if the customer requests another connection alternative after the initial one, then an additional CEF is payable.

Change in scope requested by the customer

A new Cost Estimate Letter will be required to be issued in cases where a customer requests a change in scope for a project. A Cost Estimate Fee will be payable for the new Cost Estimate Letter that is to be issued.

Quotation fee validity period

A new Cost Estimate Fee will be payable where the quotation fee validity period has expired and a new Cost Estimate Letter is requested by the customer

¹ Should a project follow the short major project route (i.e. where only the BQ is issued and no CEL is issued) then the minimum CEF of R19 280 incl. VAT will be payable. This minimum fee is charged to recover the cost of producing a budget quotation. Sometimes it is not known upfront whether the project will follow the full major or the major short process. In this case the standard CEF will be payable based on the MEC of the application as if it's full major process and if the project follows the major short process, then the difference of the CEF paid and the CEF for the major short will be deducted to get the outstanding connection charge still payable.

Part 1 – Application Form

	DETAILS OF APPLICANT						
1.	Application relationship	Developer Consultant Landowner Other (specify):					
2.	Full name of applicant(s) / lead developer Customer title and full first names: Customer's initials Surname/Company name Note that if there is more than one developer, as much information as possible should be provided						
3.	Identity number or Company/Close Corporation registration number						
4.	Date of submission	2 0 Y Y	M M D D				
5.	Do you intend to submit a bid in terms of a regulated power purchase procurement process (e.g. REFIT)	YES					
6.	If YES, provide the name of the programme						
7.	If NO, indicate if it is for own use and/or a wheeling transaction or other	Own Use only- no export Own use with Export- Offset Wheeling to 3 rd party Other (specify)	Yes/No/Not Applicable				
8.	registered address:						
	Street no.: Street: Suburb:						
			40 - 1				

	City:				
9.	Postal address P O Box:				
	City and Country:				
	Postal Code:				
10.	Contact address Street no.: if different from above:				
	Street:				
	Suburb:				
	City:				
	Postal Code:				
11.	Name of contact person				
12.	Phone number of contact person				
13.	Alternative phone number				
14.	Fax number of contact person				
15.	Email of contact person				
16.	Please nominate a preferred name for this project/facility.				
	Eskom will take this preferred name into consideration when determining the facility's station name but reserves the right to change it in order to avoid any potential for confusion with other projects or stations. Please use a single word or short name for use in databases – to avoid potential abbreviations.				
		GENERAL DETA	ILS		
17.	Connection point detail:	New point		Existing point	
		Eskom Specify:		Municipal supply area	
18.	If new point, please indicate if a supply is required?	YES NO If yes, specify size	of supply:	kVA	
19.	If an existing Eskom point is to be used, please provide customer account number.				
20.	If existing Eskom point, will this application result in changes in supply (NMD/MEC) to existing Eskom point				

		Specify NMD:kVA
		Specify MEC:kW
	Has the applicant previously had a study	YES
	npleted by Eskom regarding this ility?	NO
issu	yes, please specify the title, date of ue and issuing department of the presibility study(s).	
	rget connection date (this date will be ed for connection assessment).	2 0E Y Y M M D D
	ovide preference in terms of nstruction of assets.	Eskom to construct assets
		Negotiated self-built project transferring assets to Eskom
		Negotiated self-built project with developer retaining ownership of assets
		Note: Each option is subject to legislative frameworks as well as Eskom's policies as applicable from time-to-time. More information can be made available on request.
	MA	PS AND DIAGRAMS
	ease indicate coordinates for on-site delectrical connection.	On-site Generator connection point:
Use	Use WGS84 datum coordinates in following format: dd°mm'ss.s" (Degrees, Minutes, Seconds)	Latitude S d d ° m m ' s s . s Longitude E d d ° m m ' s s . s
		Electrical connection point (where known):
	,	Latitude S d d ° m m ' s s . s
		Longitude E d d ° m m ' s s . s
the	ease provide reasonable assurance of right to develop on a proposed site, . letter from landowner.	
of the	ease provide a map, with the location the facility, and relationship to an ntifiable landmark clearly marked.	If GIS shape files are available, that might be submitted as well (*.shp, *.shx, *.dbf, *.prj) Minimum file requirements might have to be listed.
clea pro sho sub	d the marked electrical connection arly to the grid in map format and perties to be crossed – i.e. map owing IPP site, power line and estation and connection to grid layout, vailable.	
trav and site net farn Far	icate how many land parcels are versed by the proposed development d associated activities (the Generation e as well as the interconnecting twork). Provide the farm name(s), m number and portion number e.g. My rm 123/0, Your Farm 124/1 (indicate altiple farm numbers as required).	Name of map attachment (soft copy):

28.	If known, please provide the name of the Eskom substation from which existing
	supply (if applicable), is taken.
	Alternatively provide the nearest pole
	number OR stand/minisub/RMU number
	for the cable network

TECHNICAL DATA							
1)	Please indicate the required reliability of the connection		Non-firm / Single Supply or Firm / Dual Supply				
2)	For a new plant, provide the fault current (MVA) contribution of the generating facility at the Point of Connection.					N	1VA
3)	Existing supply point: For an existing load, provide the	Exist	Existing NMD:			_ N	IVA
	NMD (typically for co-generation) If applicable, what is the new NMD as a result of this application If an existing plant, what is the existing fault current contribution	New	New NMD required:			N	ΛVA
	and what will the new fault current contribution be in MVA.		sting Fault Current contribution: w Fault Current contribution:				
4)	Please provide details of the technology type, installed capacity		Technology		MEC (MW)	Installed Capacity (MW)
	and MEC.	Wind	<u> </u>				
		CSP	trough				
			CSP tough				
		PV					
		Concentrating PV					
		Land					
		Biom	ass				
		Biogas					
		Hydro or small Hydro					
		Coal	-				
		Gas					
		Othe	r (specify)				
	5) Provide the project phases/time lines.		Year	Facility (MW)	Load (MVA)		
	Indicate short-term and long-term MEC in MW for export capacity and Load NMD in MVA import capacity. Phasing of the project e.g. phase 1 a total of 50 MW with 1st turbine being commissioned in 2014 and final commissioning by 2016, phase 2 a total of 100 MW with 1st turbine being commissioned in 2016 and final commissioning by 2018. This will help to determine required network capacities and highlight potential development risks.						

Part 2 – Project Form

Eskom will contact the customer to request this section of the application form to be completed once all the required conditions are fulfilled. This section is to be completed in order for Eskom to proceed with a Budget Quotation.

ENVIRONMENTAL INFORMATION				
Is a waste license required and if so what is the status of the application?				
7) Is an emissions license required and if so what is the status of the application?				
8) Is an integrated water use license required and if so what is the status of the application?				
9) Are there appeals and/or legal reviews against any environmental authorisation? If so, what is the status?				
10) Does the EIA application include all associated activities including one for the power line connection to the Eskom grid? (State all listed activities applied for.)				
11) If EIA and/or other environmental authorisations (waste, water, and air quality) have been initiated, please provide name of environmental consultant.				
12) Provide proof of landowner consent, to avoid requests for duplicate quotations on same land or very close proximity.				
13) Highlight potential risks of project, e.g. wetlands, proximity to airports, mining activities, prospecting licences, etc.				

	SIT	E DATA			
14) Has agreement been reached between the applicant and all registered landowners affected by the proposed development and associated activities?					
15) Provide a site plan in an appropriate scale. This site plan should indicate:					
 a) The proposed location of the connection point and associated activities, (normally at the HV bushings of the grid connected transformer) b) Generators c) Transformers d) Site buildings e) Electrical diagram of the above including any back up generators 					
Name of site plan attachment (soft copy):					
16) Does your proposed development impact on any existing infrastructure such as utilities, telecommunications, rail, roads, and water? Please specify.					
PR	ROJE	CT PHASE	S		
17) Provide the updated project phases/ time lines.		Year	Facility (MW)	Load (MVA)	
Indicate short-term and long-term MEC in MW for export capacity and					
Load NMD in MVA import capacity.					
Phasing of the project e.g. phase 1 a total of 50 MW with 1st turbine being					
commissioned in 2014 and final commissioning by 2016, phase 2 a					
total of 100 MW with 1st turbine being commissioned in 2016 and final					
commissioning by 2018. This will help to determine required network					
capacities and highlight potential development risks.					
CONSTRUCTION SUPPLY REQUIREMENTS					
18) Provide details of construction supply requirements in kVA, voltage and location.					
Please note that a separate electrical supply application will be required in this regard.					