CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

ENERGY DIRECTORATE GEN/ELEC 1

APPLICATION FOR THE CONNECTION OF A STANDBY SUPPLY

This application form for the connection of generation is for any low voltage standby supplies to be permanently installed by residential, commercial or industrial customers if the standby supply needs to be synchronised with or not to the City's electrical distribution network.

Approval from other City departments are required. From Planning and Building Development Management (zoning, subdivision and/or building structure plans) and City Health Specialised Services (noise and ventilation).

Submit completed form to:

Customer Support Services: Area North		
Electricity House City Cnr Buitengracht & Hout Street Cape Town CBD	Electricity House City 80 Bree Street Cape Town CBD 8000	Tel: (021) 4442096/7 Email: sseg.north@capetown.gov.za

or

Customer Support Services: Area East		
Electricity Generation & Distribution Head Office Bloemhof Centre Bloemhof Street BELLVILLE	Private Bag X44 BELLVILLE 7535	Tel: (021) 4448511/2 Email: sseg.east@capetown.gov.za

or

Customer Support Services: Area South		
1st Floor Wynberg Electricity Depot Rosmead Avenue WYNBERG	Wynberg Electricity Depot Rosmead Avenue WYNBERG 7800	Tel: (021) 400 4750 Email: sseg.south@capetown.gov.za

Property name and location:

Property name:
Erf number:
Physical address:
Township / Suburb / Farm:
Postal Code:

Name and account numbers of property owner:

First name:		Last name:		Title:	
Business partner number as per municipal account:		Contract account number:			

APPLICATION FOR THE CONNECTION OF A STANDBY SUPPLY

Property owner contact details:

	Office	Mobile
Telephone number		

Facsimile number	
E-mail address	

Application type
(Tick appropriate boxes)

	✓
Residential	
Commercial/Industrial	
New	
Revised application	
Upgrade of existing system	
Change of property owner	
Other (specify)	

Mode of standby generation:
(Tick appropriate box)

	✓
Standby supply operated in a break-before-make mode with the City's distribution network of no more than 100 kilowatts.	
Standby supply operated in a break-before-make mode with the City's distribution network of more than 100 kilowatts.	
Soft reconnection: Standby supply needs momentary synchronisation/paralleling with the City's distribution network prior to operating the automatic transfer switch (ATS) when the City's supply is restored, to allow a seamless transfer of supply.	
Soft load transfer (SLT): Scheme required for a standby supply system of more than 100 kVA so as allowing uninterrupted transfer of the customer's load from the distribution network to the standby supply and vice versa.	

SECTION A

Planned construction schedule:

Projected construction start date	
Projected in-service date of standby generator	

Type of energy conversion:
e.g. Synchronous generator, induction generator, inverter, fuel-cell, dyno set.

Fuel:

Type		Storage capacity (ℓ)	

Site plan:
(Tick appropriate box)

	✓
Site plan to show scaled map with existing services	
Future site development plans	

Site land use zoning:

Preliminary design:

Design showing generators, transformers, customer circuitry interfacing with City of Cape Town electrical network, isolating devices, protection schemes, operating characteristics, etc.	

Total capacity of standby generation (kVA and PF): (Attach schedule for each unit if more than one generation unit)	

SECTION B

Make & model of generating unit/s	

Protection details:	Soft reconnection: Momentary synchronisation/paralleling with the City's electrical distribution network is required prior to operating the ATS when City's electricity supply is restored.
	Soft load Transfer (SLT): If make-before-break synchronisation is required for large standby plants, the technical requirements for the SLT scheme as defined in EBB 317 (Rev1)[1] – Standby supply soft load transfer scheme – shall be applicable.

SECTION C

List of regulatory requirements and normative references: (Tick appropriate box (✓) or mark not applicable (N/A)		✓
	Electricity Regulation Act, Act 4 of 2006 and Electricity Regulation Amendment Act, Act 28 of 2007	
	Occupational Health and Safety Act, No. 85 of 1993, as amended. General Machinery Regulations Supervision of Machinery competent person appointment is attached.	
	City of Cape Town Electricity Supply By-Law	
	SANS 10142- Part 1: The wiring of premises. A certified copy of the Certificate of Compliance must be submitted prior to reconnection of the supply to the premises after installation work.	
	SANS 342: Automotive diesel fuel	
	SANS 8528 (Parts 1 – 12): Reciprocating internal combustion engine driven alternating current generating sets	
	SANS 10089 (Parts 1-3): The petroleum industry	
	SANS 60034 (suite): Rotating electrical machines	
	NRS 098: Guidelines for the installation and safe use of portable generators on utilities' networks (applicable to permanently installed standby generation as well)	
	Soft reconnection: Written approval provided by an ECSA-registered professional engineer/technologist for the complete electrical installation design, construction and commissioning is required.	
	Soft load Transfer (SLT): Requirements as defined in EBB 317 (Rev1) – Standby supply soft load transfer scheme	
	NERSA generation licence attached to this application for any standby supply of more than 100 kilowatts.	

[1] EBB 317 (Rev1) – Standby supply soft load transfer scheme will be provided on request by Energy and Climate Change Directorate

SECTION D

Clearance by other City of Cape Town departments (required for permanently installed standby generators)

FUNCTION	SECTION	COMMENTS	NAME	SIGNATURE	DATE
Zoning/ subdivision/ building structure plans	Planning and Building Development Management (Area offices)				
Noise impact assessment and ventilation	City Health Specialised Services Cape Town Civic Centre, 22nd Floor (021) 400 3781, email: noise@capetown.gov.za				

Note:

1. Energy and Climate Change Directorate will require **prior** approval from other departments.

2. Air pollution and quality (Fuel burning) facility must be compliant to the City of Cape Town Air Quality Management By-law, 2015. No application will be required and application forms are no longer being accepted or processed by the City Health Specialised Services. Should complaints relating to the emission of fumes or odours generated by the installation be received, said complaints will be dealt with in terms of the nuisance section of the by-law. Alterations to the exhaust system serving the appliance, among other requirements, may then be called for. For this reason, it is beholden on installing Engineers to exercise the necessary due care in the design and installation of the exhaust systems so as to ensure no nuisance conditions arise during the operation of the Generator. The decision to exempt generators from requiring an authorisation in terms of the Air Quality Management Bylaw does not exempt the installer/owner from complying with any other legislation affecting the installation of such appliances. Should you have any queries, please contact the City's Air Quality Management Office at 021 590-5200 for further information.

3. In terms of Regulation 4 of the Western Cape Noise Control Regulations, any application for the installation of a Generator (any similar devices) must comply with the following requirements:

3.1 The noise impact rating of the proposed installation may not exceed the appropriate SANS rating as indicated in SANS 10103 (see table below).

3.2 The residual (minimum background noise) noise level may not be exceeded by 5dBA or more.

3.3 All generator installation GEN/ELEC 1 applications must be forwarded to the Noise Control Department for a noise impact assessment and review together with the following information:

3.3.1 Usage: Give brief description of what generator is used for. Indicate if the generator operates during the daytime only, night-time only or both?

3.3.2 Location: Attach a plan or aerial map, showing the proposed location of generator, with approximate distances, to the nearest property boundary.

3.3.3 Specification: Specify generator make/ model and noise characteristics (i.e. the sound pressure level in decibels or dBA).

3.3.4 Sound abatement: Any additional noise attenuation specified by supplier/installer.

SANS 10103 Rating levels Out doors		
Type of district	Daytime (06h00-22h00)	Night-time (22h00-06h00)
Rural district	45dBA	35dBA
Suburban district with little traffic	50dBA	40dBA
Urban districts (workshops, business premises and main roads)	60dBA	50dBA
Central business districts	65dBA	55dBA
Industrial districts	70dBA	60dBA or 70dBA (for 24hr operations)

4. Photovoltaic (PV) applications will require approval from only Planning and Building Development Management if:

a) Rooftop installations: PV panel(s) in its installed position projects more than 1.5m, measured perpendicularly, above the roof and/or projects more than 600mm above the highest point of the roof;

b) Installations on the ground: PV panel(s) in its installed position projects more than 2.1 metres above the natural/finished ground level.

SECTION E

Any additional information:	

I request the City of Cape Town Energy and Climate Change Directorate to proceed with the review of this standby supply application. I understand that:

- I will have to pay for both in-house and outsourced engineering studies conducted as part of this review, should these be required; and
- A quotation for such work will be provided beforehand, giving me the opportunity to cancel or modify the application should I wish to do so.

Application completed by:	Name:	Title:

Date:	
Signed:	_____
Signed (Property owner):	_____
Date:	

FOR OFFICE USE

Date application received:		**Application notification number:**	
Further information required:	☐ YES / NO ☐	**Date received:**	
In-principle electrical installation approval given:	☐ YES / NO ☐	**Date applicant advised:**	
Copy to Distribution District installation inspector:	☐ YES / NO ☐	**Date completed:**	

GEN 2 STANDBY SUPPLY DECOMMISSIONING REPORT

Site details	
Property address (incl. post code)	
Business partner account number	
Contract account number	
Telephone number	
Standby supply plant details	
Manufacturer and model type	
Serial number/s of generator and change over switch/s	
Generator capacity (kVA)	
Type of energy conversion: e.g. Synchronous generator, induction generator, inverter, fuel-cell, dyno set.	

Decommissioning agent details		
Name		
Accreditation/qualification		
Address (incl. post code)		
Certificate of Compliance number (provide copy of the CoC which confirms that the standby supply has been disconnected effectively from the City's electricity distribution network).		
Contact person		
Telephone number		
Fax number		
E-mail address		
Name:	Signature:	Date: