

ELECTRICITY AND ENERGY DIRECTORATE

APPLICATION FOR THE CONNECTION OF SMALL SCALE EMBEDDED GENERATION (SSEG)

Erf No Northe	n Region (Dispatch & U (041) 994-1268		PE & surrounding area) 392-4162	Registe	r No
Name of Account Holder:	Name :			Title :	
Postal Address: Account Number:	Postal Address:		Account Number:		
Contact Details:	Telephone number	Office		Mobile	
	Facsimile number				
	E-mail address				
	E mail address				
Project physical address:					
GPS Co-ordinates:					
Construction Schedule:	Project construction sta	art date			
	Projected in-service da	ate of embedded generation			
				Comments	✓
Mode of Embedded Generation: (Tick appropriate box)	Energy from Embedded Generation to be used within a consumer's electricity network and no excess energy to be exported to the NMBM's electricity distribution network. No changes to existing metering is required				
	Energy from Embedded Generation to be used within a consumer's electricity network and excess to be exported to the NMBM's electricity distribution network Net Metering Provided by NMBM				
	Energy from Embedded Generation to be used solely for exporting to the NMBM's electricity distribution network			Not Applicable For later use	N/A
	Energy from Embedded Generation to be used solely for wheeling to a third party through the NMBM's electricity distribution network			Metering to be Provided by approved third party vendor	

Energy Source for Embedded Generation:		
e.g. Coal, Gas, Biogas, Hydro, Wind, Photo-Voltaic, etc.		
Site Plan:	Attach Site Plan to show position of Embedded Generation	
Land Use Zoning:		
Preliminary design:	Attach circuit diagram and design showing generators, transformers, proposed point of common coupling, isolating and interfacing devices with Nelson Mandela Bay Municipality's electrical network, protection schemes, consumer network, operating characteristics, Earthing arrangements etc.	
Total Capacity of Embedded Generation (kVA and PF): (Attach schedule for each unit if more than One generation unit and location)		
Total Capacity of Energy Storage: (e.g the quantity of back-up batteries and total capacity in watthours)		
Total Export Generation Capacity (kVA and PF): (Maximum power intended for export into Nelson Mandela Bay Municipality's electricity distribution network)		
Make and model of generating/ Converter unit:		
Electrical Parameters of Generator and unit transformers		
Protection Details:	Method of synchronising: (Auto/Manual, make and type of	
	Relay etc.)	
	Method of anti-islanding:	
	(Details of scheme, relays to be used, etc.)	
	Method of generator control:	
	(AVR, speed, power, PF, excitation System requirements etc. relays To be used)	
	Other main protection to be applied:	
	(O/C, E/F, over/under voltage, over/ under frequency, reverse power,	
	back-up Impedance, generator	
	transformer back-up earth fault, HV breaker fail, HV breaker pole disagreement, etc.)	
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	Recording of Quality of Supply	v I		
	Devices	,		
Has a Power Purchase Agreement	 			
Been entered into with a	Yes			
Third Party (Required before Connection to Distribution	165			
System	No			
(If YES, supply details)				
		TOTAL	EXPORT	
Proposed Generation Power	Peak Periods	TOTAL	kW	l kW
Level: (Periods defined by Eskom's	- Carri Cilodo		,	
Megaflex Tariff))	0			
	Standard Periods		kW	kW
	Off-Peak Periods		kW	kW
Proposed Total Monthly Energy			kW	KW
Generation:				
Has Incentive Capital Funding				
been obtained for this				
installation:				
(State source(s) and amount)				
Has a Subsidy been granted for				
Production of energy from this				
Installation:				
(State source(s) and amount)				
				✓
List of Regulatory Approvals,	Electricity Regulation Act, Act	4 of 2006 and Electricity Reg	ulation Amendment Act. 2006	
Requirements and Normative				
References:			Environmental Conservation Act, No. 73	
(Tick appropriate box or mark N/A)	Of 1989 and National Environ			
	Occupational Health & Safety			
	Compulsory Specifications Ac	•		
	South African Distribution Cod	· · · /		
	South African Grid Code (all p	,		
	Nelson Mandela Bay Municipa			
	IEC 60068-2-1 : Environmenta			
	IEC 60068-2-1 : Environmenta			
	IEC 60068-2-30 : Environmen			
		s - Part 3 : Single input energi	zing quantity measuring relays with depen	de
	independent time	Dart 6 : Measuring relays w	vith dependent and protection equipment	
	· ·	<u> </u>	, bump and seismic tests on measuring	
	relays and protection equipme		, bump and seisinic lesis on measuning	
	IEC 60255-22 : Electrical relay		ance tests for measuring	
			-	
	relays and protection equipme			
	IEC 61727 : Photovoltaic (PV)	systems - Characteristics of		
	IEC 61727 : Photovoltaic (PV)	systems – Characteristics of alternating current circuit bre	eakers	
	IEC 61727 : Photovoltaic (PV)	systems – Characteristics of alternating current circuit bre		

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IEEE 1547-1: IEEE Standard conformance test procedures for equipment interconnecting								
	Distributed resources with electric power systems NRS 031 : Alternating current disconnectors and earthing switches (above 1000V)							
	NRS 048-2 : Electricity Supply – Quality of Supply Part 2 : Voltage characteristics, compatibility levels,							
	assessment methods.							
				y of Supply Part 4		~		
		-		y of Supply Part 7		practices for end	-users	
	,			e for Electricity Me				
			actice for the in art 1 MV and F	terconnection of e	embedded ger	neration to electri	city	
				nbedded generation	on · Part 2 Sm	all scale embedo	led generation	
				nts and insulation			.ou gonoranom	
	SANS IEC 6 sections)	SANS IEC 60529 : Degrees of protection provided by enclosures (IP Code) SANS IEC 61000-4 : Electromagnetic compatibility (EMC) : Test and measurement techniques (all sections)						
CLEARANCE BY OTHER NEL	SON MANDELA B	AY MUNICIF	PAL DIRECTO	RATES				
FUNCTION	SECTION		COMMENTS	NAME		SIGNATURE	DATE	
Zoning/Subdivision/Building Structure Plans								
Noise Impact assessment and Ventilation								
Air pollution and quality (Fuel burning)								
INSTALLER DETAILS	,			•				
Installer:								
Accreditation/Qualification:								
Professional Registration:						Reg No.		
Address						•	1	
					Posta	l Code:		
Contact person:								
Telephone No.:	Office:				Mobile	э:		
Facsimile:		E-mail add	lress:					
Any other additional information	tion:							
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I request Nelson Mandela Bay Mun pay the cost associated with complete				ection application and I agree to
I further consent to Nelson Mandela as required.	Bay Municipality providing thi	s information to the National E	Electricity Regulator of S	A (NERSA) and other Distributors
I declare that this installation has be	een designed to comply with th	e requirements of Nelson Mar	ndela Bay Municipality's	Electricity and Energy Services.
Application Competed By:	Name:			Title:
Professional Registration category:			Reg No.	
(Pr Eng or PR Tech Eng)				
Signed (Applicant):				
Date:				
Signed (Business Partner):				
Date:				
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COMMENTS: NELSON MANDELA BA	Y MUNICIPALITY - ELECT	TRICITY & ENERGY DIRECTORATE				
A representative of Nelson Mandela Bay Municipality, Electricity & Energy Directorate will wish to witness the Commissioning and installation notices on the circuits when generation is present YES / NO						
As representative of Nelson Mandela B In principle for the embedded generation	ission YES / NO					
Comments:						
	Co	ontact:	Date:			
Director: Electricity & Energy Distribution	on Sub-Directorate					
		FOR OFFICE USE				
Date Application Received:		Application Reference No.				
Further Information Required:	YES / NO	Date Received:				
NMBM Net Metering with modem Required:	YES / NO	Single/Three Phase:				
With web site access Required:	YES / NO	Direct connect/CT Metering:				
Approved in Principal	YES / NO	Date Applicant Advised:				
??????????:	YES / NO	Date Complete:				
??????????:	YES / NO	Date Complete:				
File: M/Data/Elecgen/Distsec/Templates/Application Form – Emb	edded Generation					
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