# APPLICATION FOR CONNECTION OF EMBEDDED GENERATION

**This application form is for all types (grid-tied, off-grid) of embedded generation (SSEG) connections to the electrical installation of Oubaai residential customers. Please note that a new smart meter is required to measure SSEG installations.**

***Please submit completed application forms to applications@oubaaihoa.co.za**

## A. PROPERTY OWNER

| SERVICE LOCATION | | PROPERTY OWNER | |
|---|---|---|---|
| ERF NO. | | TITLE | |
| PHYSICAL ADDRESS | | FIRST NAME | |
| | | SURNAME | |
| POSTAL CODE | | | |

| PROPERTY OWNER CONTACT DETAILS | |
|---|---|
| CELLPHONE NO. | |
| EMAIL ADDRESS | |

| APPLICATION TYPE *(Tick the appropriate boxes)* | | | |
|---|---|---|---|
| NEW | | REVISED APPLICATION | |
| SYSTEM MODIFICATION OR EXPANSION | | CHANGE OF PROPERTY OWNER | |

## B. TECHNICAL INFORMATION

Your installer will need to complete, or provide information for the following:

| MODE OF EMBEDDED GENERATION *(Tick the appropriate boxes)* | | | | | |
|---|---|---|---|---|---|
| Energy from embedded generation to be used within a customer's electrical installation and **excess to be exported** to electricity distribution network. **Maximum export** is limited at 25% of service connection circuit breaker size (Software setting) | | Energy from embedded generation to be used within a customer's electrical installation and **no excess to be exported** to electricity distribution network. | | | |
| | | **Reverse flow blocking installed** | **YES** | | **NO** |

| BATTERY STORAGE (Maximum charge current is limited to 25% of service connection circuit breaker size) | | | | | |
|---|---|---|---|---|---|
| **YES** | | **NO** | | **kWh** | |

| PRELIMINARY DESIGN | |
|---|---|
| Please attach a schematic diagram design showing major components, proposed point of common coupling, isolating and interfacing devices with the electrical network, protection schemes, customer electrical installation, operating characteristics, etc. | |

| TOTAL CAPACITY OF EMBEDDED GENERATION (kVA AND PF) *(Attach schedule for each unit if more than one generation unit or location.)* | Maximum inverter size to Main switch disconnector |
|---|---|
| | |

| PROPERTY DISTRIBUTION BOARD MAIN CIRCUIT BREAKER | | | | | | |
|---|---|---|---|---|---|---|
| **AMPERE (A)** | | **PHASE** *(Tick the appropriate box)* | **SINGLE** | | **THREE** | |

| MAKE AND MODEL OF INVERTER | | | | | | |
|---|---|---|---|---|---|---|
| **MANUFACTURER** | | **MODEL** | | | | |
| **QUANTITY** | | **PHASE** *(Tick the appropriate box)* | **SINGLE** | | **THREE** | |

## C. TYPE OF SSEG INSTALLATIONS

*Please consult your installer or professional if uncertain.*

**PLEASE CHOOSE TYPE OF PHOTOVOLTAIC SYSTEM BEING APPLIED FOR (please tick)**

| | |
|---|---|
| **1. GRID-TIED SSEG** | |

| | |
|---|---|
| **2. GRID-TIED HYBRID SSEG** | |
| **MAXIMUM BATTERY CHARGER POWER (kVA or Amps)**<br>*(Maximum battery charger power drawn from the grid (DB board) by the inverter to charge the batteries.)* | |
| | |

| | |
|---|---|
| **3. OFF-GRID** *(separated and not interconnected with electrical installation)* | |

## D. INSTALLER DETAILS AND DECLARATION

| **INSTALLER DETAILS** | | | |
|---|---|---|---|
| **INSTALLER** | | | |
| **ACCREDITATION / QUALIFICATION** | | | |
| **ADDRESS** | | | |
| | | | |
| | | | |
| | | **POSTAL CODE** | |
| **CONTACT PERSON** | | | |
| **WORK NO.** | | **CELLPHONE NO** | |
| **EMAIL ADDRESS** | | | |

I acknowledge that Oubaai HOA will proceed with the review of this grid-tied embedded generation interconnection 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, allowing me to cancel or modify the application should I wish to do so.

I further acknowledge that this information may be provided to the National Energy Regulator of South Africa (NERSA) and other Distributors, as required.

| **ECSA REGISTERED PROFESSIONAL or PV Green Card Installer** *(Must be completed for only grid-tied and grid-tied hybrid SSEG installations)*<br>ECSA professional refers to an electrical professional engineer, professional technologist, professional certificated engineer or professional engineering technician (domestic only) who is registered with the Engineering Council of South Africa (ECSA). | | | |
|---|---|---|---|
| **NAME AND SURNAME** | | | |
| **REGISTRATION NO.** | | **REGISTRATION CATEGORY** | |

(Note: The details of the ECSA registered professional must be provided as they must be involved in the design of the system and be familiar with the technical details of the intended generation technology and assist in the completion of this application form. ECSA professional sign-off is mandatory at the commissioning stage in accordance with Appendix 1)

| **DECLARATION** | |
|---|---|
| I/we, the owner(s) of the property, hereby declare that I/we have taken the necessary steps to ensure all information contained in this declaration form is correct. I/we further acknowledge and agree to comply with the provisions of the Electricity Supply By- law and Conditions of Supply. | |
| **SIGNED (PROPERTY OWNER)** | |
| **DATE** | |

If signing on behalf of the property owner(s), an approved letter of proxy[D] must be attached to this declaration.

## APPENDIX 1 – GRID-TIED SSEG INSTALLATION COMMISSIONING REPORT

The Commissioning Report must be completed by an Accredited PV Green Card installer once you have received permission to install and your system has been installed. The following SSEG Commissioning Report must be submitted for each installation, confirming compliance.

| SITE DETAILS | |
|---|---|
| **PROPERTY ADDRESS** | |
| **ERF NO** | |

| CONTACT DETAILS | |
|---|---|
| **SSEG PROPERTY OWNER** | |
| **CONTACT PERSON** | |
| **CONTACT TELEPHONE NO** | |

| SSEG DETAILS | | | |
|---|---|---|---|
| **MANUFACTURER AND MODEL TYPE** | | **INVERTER LIMITS** | |
| **SERIAL NUMBER/S OF INVERTER/S** | | | |
| **TOTAL CAPACITY OF EMBEDDED GENERATION (kVA & PF)** | | Max Inverter – 100% of switch disconnector<br>Max Export – 25% of erf capacity (Software)<br>Max Bat Charge – 25% of erf capacity (Software) | |
| **SINGLE-PHASE OR THREE-PHASE** | | | |

| INSTALLER DETAILS | | | |
|---|---|---|---|
| **INSTALLER** | | | |
| **ACCREDITATION / QUALIFICATION** | | | |
| **ADDRESS** | | | |
| | | **POSTAL CODE** | |
| **CONTACT PERSON** | | | |
| **WORK NO** | | **CELLPHONE NO** | |
| **EMAIL ADDRESS** | | | |

| INFORMATION TO BE ATTACHED | | | | | |
|---|---|---|---|---|---|
| **FINAL COPY OF CIRCUIT DIAGRAM** | | **APPLICABLE ELECTRICAL INSTALLATION CERTIFICATE OF COMPLIANCE IN TERMS OF SANS 10142-1 OR INSTALLATION SAFETY REPORT** | | **SIGNED CONTRACT FOR SSEG** | |

| COMPULSORY DECLARATION – TO BE COMPLETED BY ECSA REGISTERED PROFESSIONAL OR PV GREEN CARD INSTALLER | |
|---|---|
| THE SSEG INSTALLATION COMPLIES WITH THE LATEST EDITIONS ADN RELEVANT SECTIONS OF NRS 097-2-1 AND SOUTH AFRICAN GRID CODES. | |
| THE LOSS OF MAINS PROTECTION HAS BEEN PROVED BY A FUNCTIONAL TEST CARRIED OUT AS PART OF THE ON-SITE COMMISSIONING<br>*(e.g., a momentary disconnection of the grid supply to the SSEG in order to prove that the loss of mains protection operates as expected.)* | |
| PROTECTION SETTINGS HAVE BEEN SET TO COMPLY WITH THE LATEST EDITION OF NRS 097-2-1 AND THE APPROVED GENERATION CAPACITY. MAXIMUM OUTPUT OF THE INVERTER HAS BEEN LIMITED BY APPROPRIATE HARDWARE OR SOFTWARE SETTINGS. | |
| MAXIMUM INVERTER SIZE AND EXPORT LIMIT SET | |
| MAXIMUM BATTERY CHARGE CURRENT SET | |
| SAFETY LABELS HAVE BEEN FITTED IN ACCORDANCE WITH THE LATEST EDITION OF NRS 097-2-1, SANS 10142-1 AND SANS 10142-2 MV INSTALLATION SAFETY REPORT | |
| THE GRID-TIED SSEG INSTALLATION COMPLIES WITH THE RELEVANT SECTIONS OF SANS 10142-1 AND AN INSTALLATION CERTIFICATE OF COMPLIANCE AND TEST REPORT FOR ELECTRICAL INSTALLATIONS, ARE ATTACHED. | |
| WHERE APPLICABLE FOR A GRID-TIED HYBRID SSEG INSTALLATION, THE SUITABLY INTERLOCKED CHANGE-OVER SWITCH CONFORMS TO THE REQUIREMENTS OF APPENDIX 4 OF THE REQUIREMENTS FOR THE SSEG DOCUMENT | |
| REVERSE POWER FLOW BLOCKING PROTECTION HAS BEEN INSTALLED AND COMMISSIONED TO PREVENT REVERSE POWER FLOW INTO THE ELECTRICITY DISTRIBUTION NETWORK *(where applicable)* | |
| **COMMENTS** *(continue a separate sheet if necessary)* | |
| | |

| | |
|---|---|
| **NAME AND SURNAME** | |
| **PV Green Card** | |
| **SIGNATURE** | |
| **DATE** | |