|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Form A3-2: Installation Notification Form for Small Generation Installation Procedures 2 and 3.**  Please complete and provide this document for each **Small Generation Installation**.  Part 1 should be completed for the overall installation.  Part 2 should be completed for each of the **Generating Unit**s (ie for the **Electricity Storage** **Inverter**s and non-**Electricity Storage** **Generating Unit Inverter**s) being commissioned. Where the installation is phased the form should be completed on a per **Generating Unit** basisas each part of the installation is completed in accordance with EREC G99 paragraph 15.3.3. For phased installations reference to **PGM** in this form should be read as reference to **Generating Unit**s. | | | | | | | | | | | | |
| **Form A3-2 Part 1** | | | | | | | | | | | | |
| To Northern Powergrid  Our email address is getconnected@northernpowergrid.com  Our freepost address is **RTSJ-LHKB-LTST,** Northern Powergrid Connections, Alix House, Falcon Court, Preston Farm Industrial Estate, Stockton on Tees, TS18 3TU | | | | | | | | | | | | |
| **Generator details:** | | | | | | | | | | | | |
| **Generator** (name) | |  | | | | | | | | | | |
| Address | |  | | | | | | | | | | |
| Post Code | |  | | | | | | | | | | |
| Contact person (if different from **Generator**) | |  | | | | | | | | | | |
| Telephone number | |  | | | | | | | | | | |
| E-mail address | |  | | | | | | | | | | |
| MPAN(s) | |  | | | | | | | | | | |
| **Generator** signature | |  | | | | | | | | | | |
| **Installer details:** | | | | | | | | | | | | |
| **Installer** | |  | | | | | | | | | | |
| Accreditation / Qualification | |  | | | | | | | | | | |
| Address | |  | | | | | | | | | | |
| Post Code | |  | | | | | | | | | | |
| Contact person | |  | | | | | | | | | | |
| Telephone Number | |  | | | | | | | | | | |
| E-mail address | |  | | | | | | | | | | |
| **Installer** signature | |  | | | | | | | | | | |
| **Installation details:** | | | | | | | | | | | | |
| Address | |  | | | | | | | | | | |
| Post code | |  | | | | | | | | | | |
| Location within **Generator’s** **Installation** | |  | | | | | | | | | | |
| Location of Lockable Isolation Switch | |  | | | | | | | | | | |
| **Summary details of Generating Units where multiple Generating Units will exist within one Generator’s Installation** | | | | | | | | | | | | |
| **Manufacturer** / Reference | Date of Installation | | Energy source and energy conversion technology (enter codes from tables 1 and 2 below) | **Manufacturer**sRef No. (system reference) or Reference to Form A2-3 | | **Generating Unit Registered Capacity** in kW | | | | | | |
| 3-Phase Units | Single Phase Units | | | | | **Power Factor** |
| PH1 | | | PH2 | PH3 |
|  |  | |  |  | |  |  | | |  |  |  |
|  |  | |  |  | |  |  | | |  |  |  |
|  |  | |  |  | |  |  | | |  |  |  |
|  |  | |  |  | |  |  | | |  |  |  |
| **Emerging technology classification (if applicable)** | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| **Commissioning checks** | | | | | | | | | | | | |
| **Description** | | | | | | | | | **Confirmation** | | | |
| **Generator’s Installation** satisfies the requirements of BS7671 (IET Wiring Regulations). | | | | | | | | | Yes / No\* | | | |
| Suitable lockable points of isolation have been provided between the **PGM**s and the rest of the **Generator’s Installation**. | | | | | | | | | Yes / No\* | | | |
| Labels have been installed at all points of isolation in accordance with EREC G99. | | | | | | | | | Yes / No\* | | | |
| Interlocking that prevents the **PGM**s being connected in parallel with the **DNO**’s **Distribution Network** (without synchronising) is in place and operates correctly. | | | | | | | | | Yes / No\* | | | |
| Balance of Multiple Single Phase **PGM**s. Confirm that design of the **Generator’s** **Installation** has been carried out to limit output power imbalance to below 16 A per phase, as required by EREC G99. | | | | | | | | | Yes / No\* | | | |
| **PGM** installation complies with cyber security requirements | | | | | | | | | Yes / No\* | | | |
| Export limitation scheme meets the requirements of EREC G100 and has been commissioned in accordance with EREC G100. | | | | | | | | | Yes / No\* | | | |
| **Information to be enclosed** | | | | | | | | |  | | | |
| Description | | | | | | | | | Confirmation \* | | | |
| As installed Standard Application Form data, unless already provided. | | | | | | | | | Yes / No\* | | | |
| Final copy of circuit diagram | | | | | | | | | Yes / No\* | | | |
| EREC G100 Export limitation scheme installation and commissioning test form. | | | | | | | | | Yes / No\* | | | |
| **Form A3-2 Part 2** | | | | | | | | | | | | |
| **Power Generating Module** reference or name | | | | |  | | | | | | | |
| **Information to be enclosed** | | | | | | | | | | | | |
| Description | | | | | | | | Confirmation \* | | | | |
| Schedule of protection settings (may be included in circuit diagram) | | | | | | | | Yes / No\* | | | | |
| **Commissioning checks** | | | | | | | | | | | | |
| The **Interface Protection** settings have been checked and comply with EREC G99. | | | | | | | | Yes / No\* | | | | |
| The **PGM** successfully synchronises with the **DNO**’s **Distribution Network** without causing significant voltage disturbance. | | | | | | | | Yes / No\* | | | | |
| The **PGM**successfully runs in parallel with the **DNO**’s **Distribution Network** without tripping and without causing significant voltage disturbances. | | | | | | | | Yes / No\* | | | | |
| The **PGM** successfully disconnects without causing a significant voltage disturbance, when it is shut down. | | | | | | | | Yes / No\* | | | | |
| **Interface Protection** operates and disconnects the **DNO**’s **Distribution Network** quickly (within 1 s) when a suitably rated switch, located between the **PGM** and the **DNO**’s incoming connection, is opened. | | | | | | | | Yes / No\* | | | | |
| The **PGM** remains disconnected for at least 20 s after switch is reclosed. | | | | | | | | Yes / No\* | | | | |
| Loss of tripping and auxiliary supplies. Where applicable, loss of supplies to tripping and protection relays results in the forced trip of the **PGB** (or relevant **Generating Unit**) or an alarm to a 24 hour manned control centre. | | | | | | | | Yes / No\* | | | | |
| \*Circle as appropriate. If “No” is selected the **Power Generating Facility** is deemed to have failed the commissioning tests and the **PGM** shall not be put in service. | | | | | | | | | | | | |
| Additional comments / observations: | | | | | | | | | | | | |

|  |  |
| --- | --- |
| Declaration – to be completed by **Generator** or **Generator’s** Appointed Technical Representative | |
| I declare that for the **Power Generating Module** within the scope of this EREC G99, and the installation:  1. Compliance with the requirements of EREC G99 and EREC G100 is achieved.  2. The **Power Generating Module** is **Fully Type Tested**.  3. The commissioning checks detailed in this Form A3-2 Part 2 have been successfully completed. | |
| Name: | |
| Signature: | Date: |
| Company Name: |
| Position: | |

Table 1

|  | Energy Source |
| --- | --- |
| A | Advanced Fuel (produced via gasification or pyrolysis of biofuel or waste) |
| B | Biofuel - Biogas from anaerobic digestion (excluding landfill & sewage) |
| C | Biofuel - Landfill gas |
| D | Biofuel - Sewage gas |
| E | Biofuel - Other |
| F | Biomass |
| G | Fossil - Brown coal/lignite |
| H | Fossil - Coal gas |
| I | Fossil - Gas |
| J | Fossil - Hard coal |
| K | Fossil - Oil |
| L | Fossil - Oil shale |
| M | Fossil - Peat |
| N | Fossil - Other |
| O | Geothermal |
| P | Hydrogen |
| Q | Nuclear |
| R | Solar |
| S | Stored Energy (all stored energy irrespective of the original energy source) |
| T | Waste |
| U | Water (flowing water or head of water) |
| V | Wind |
| W | Other |

Table 2

|  | Energy Conversion Technology |
| --- | --- |
| 1 | Engine (combustion / reciprocating) |
| 2 | Fuel Cell |
| 3 | Gas turbine (OCGT) |
| 4 | Geothermal power plant |
| 5 | Hydro - Reservoir (not pumped) |
| 6 | Hydro - Run of river |
| 7 | Hydro - Other |
| 8 | Interconnector |
| 9 | Offshore wind turbines |
| 10 | Onshore wind turbines |
| 11 | Photovoltaic |
| 12 | Steam turbine (thermal power plant) |
| 13 | Steam-gas turbine (CCGT) |
| 14 | Tidal lagoons |
| 15 | Tidal stream devices |
| 16 | Wave devices |
| 17 | Storage - Chemical - Ammonia |
| 18 | Storage - Chemical - Hydrogen |
| 19 | Storage - Chemical - Synthetic Fuels |
| 20 | Storage - Chemical - Drop-in Fuels |
| 21 | Storage - Chemical - Methanol |
| 22 | Storage - Chemical - Synthetic Natural Gas |
| 23 | Storage - Electrical - Supercapacitors |
| 24 | Storage - Electrical - Superconducting Magnetic ES (SMES) |
| 25 | Storage - Mechanical - Adiabatic Compressed Air |
| 26 | Storage - Mechanical - Diabatic Compressed Air |
| 27 | Storage - Mechanical - Liquid Air Energy Storage |
| 28 | Storage - Mechanical - Pumped Hydro |
| 29 | Storage - Mechanical - Flywheels |
| 30 | Storage - Thermal - Latent Heat Storage |
| 31 | Storage - Thermal - Thermochemical Storage |
| 32 | Storage - Thermal - Sensible Heat Storage |
| 33 | Storage - Electrochemical Classic Batteries -Lead Acid |
| 34 | Storage - Electrochemical Classic Batteries -Lithium Polymer (Li-Polymer) |
| 35 | Storage - Electrochemical Classic Batteries -Metal Air |
| 36 | Storage - Electrochemical Classic Batteries -Nickle Cadmium (Ni-Cd) |
| 37 | Storage - Electrochemical Classic Batteries -Sodium Nickle Chloride (Na-NiCl2) |
| 38 | Storage - Electrochemical Classic Batteries -Lithium Ion (Li–ion) |
| 39 | Storage - Electrochemical Classic Batteries -Sodium Ion (Na–ion) |
| 40 | Storage - Electrochemical Classic Batteries -Lithium Sulphur (Li-S) |
| 41 | Storage - Electrochemical Classic Batteries -Sodium Sulphur (Na-S |
| 42 | Storage - Electrochemical Classic Batteries -Nickle –Metal Hydride (Ni-MH) |
| 43 | Storage - Electrochemical Flow Batteries - Vanadium Red-Oxide |
| 44 | Storage - Electrochemical Flow Batteries - Zinc – Iron (Zn –Fe) |
| 45 | Storage - Electrochemical Flow Batteries - Zinc – Bromine (Zn –Br) |
| 46 | Storage - Other |
| 47 | Other |