# Form A1-2 : Application for connection of Fully Type Tested Integrated Micro Generation and Storage installations

For **Integrated Micro Generation and Storage** installations, this simplified application form can be used where all of the following eligibility criteria apply:

- The **Power Generating Module**s are located in a single **Generator's Installation**;
- The total aggregate capacity of the **Power Generating Module**s (including **Electricity Storage** devices) is between 16 A and 32 A per phase;
- The total aggregate capacity of the **Power Generating Module**s that are **Electricity Storage** devices do not exceed 16 A per phase and the total aggregate capacity of the **Power Generating Module**s that are not **Electricity Storage** devices do not exceed 16 A per phase. Note that if the total aggregated capacity of **Electricity Storage** and non-**Electricity Storage** devices is no greater than 16 A per phase, the single premises procedure described in EREC G98 applies;
- All of the **Power Generating Module**s (including **Electricity Storage** units) are connected via EREC G98 **Type Tested Inverter**s (or EREC G83 **Type Tested Inverter**s, where the **Power Generating Module** was installed prior to 27 April 2019)
- An EREC G100 compliant export limitation scheme is present that limits the export from the **Generator's Installation** to the **Distribution Network** to 16 A per phase; and
- The **Power Generating Module**s will not operate when there is a loss of mains situation.

**DNO**s may have their own forms; refer to the **DNO**'s websites and online application tools. If the **Power Generating Module** is registered with the ENA Type Test Verification Report Register, the application should include the **Manufacturer's** reference number (the system reference).

If all the eligibility criteria apply the **DNO** will confirm that the installation can proceed. The planned commissioning date stated on the application shall be within 10 working days and 3 months from the date the application is submitted.

On completion of the installation the **Installer** shall submit the commissioning sheets, as required in EREC G100 alongside the EREC G99 forms.

To ABC electricity distribution **DNO**

99 West St, Imaginary Town, ZZ99 9AA abced@wxyz.com

| **Generator Details:** | |
|---|---|
| **Generator** (name) | |
| Address | |
| Post Code | |
| Contact person (if different from **Generator**) | |
| Telephone number | |
| E-mail address | |
| MPAN(s) | |

| **Installer Details (Generation):** | |
|---|---|
| **Installer** | |
| Accreditation / Qualification | |
| Address | |
| Post Code | |
| Contact person | |
| Telephone Number | |
| E-mail address | |
| **Installer Details (Electricity Storage, if different from above):** | |
| **Installer** | |
| Accreditation / Qualification | |
| Address | |
| Post Code | |
| Contact person | |
| Telephone Number | |
| E-mail address | |
| **Installation details**: | |
| Address | |
| Post Code | |
| MPAN(s) | |

| **Details of Existing PGMs – where applicable:** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Manufacturer** | Approximate Date of Installation | Energy source and energy conversion technology (enter codes from tables 1 and 2 below form) | **Manufacturer**'s Ref No. where available | **PGM Registered Capacity** (kW)* | | | | Energy storage capacity for **Electricity Storage** devices (kWh) |
| | | | | 3 - phase units | Single Phase Units | | | |
| | | | | | PH1 | PH2 | PH3 | |
| | | | | | | | | |
| | | | | | | | | |

| **Details of Proposed Additional Generating Unit(s) (including Electricity Storage):** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Manufacturer** | Approximate Date of Installation | Energy source and energy conversion technology (enter codes from tables 1 and 2 below) | **Manufacturer**'s Ref No. where available | **Generating Unit Capacity** (kW)* | | | | Energy storage capacity for **Electricity Storage** devices (kWh) |
| | | | | 3-phase units | Single Phase Units | | | |
| | | | | | PH1 | PH2 | PH3 | |
| | | | | | | | | |
| | | | | | | | | |

* Use continuation sheet where required.

Record **Power Generating Module Registered Capacity** kW at 230 AC, to one decimal place, under PH1 for single phase supplies and under the relevant phase for two and three phase supplies.

Include a schematic diagram for the proposed scheme.

| **Please confirm all of the statements are true by ticking each box:** | |
|---|---|
| The **Power Generating Module**s are located in a single **Generator's Installation**. | |
| The total aggregate capacity of the **Power Generating Module**s (including **Electricity Storage** units) is between 16 A and 32 A per phase. | |
| The total aggregate capacity of the **Power Generating Module**s that are **Electricity Storage** devices do not exceed 16 A per phase and the total aggregate capacity of the **Power Generating Modules** that are not **Electricity Storage** devices do not exceed 16 A per phase. | |
| All of the **Power Generating Modules** (including **Electricity Storage** devices) are connected via EREC G98 **Type Tested Inverters** (or EREC G83 **Type Tested Inverter**s, where the **Power Generating Module** was installed prior to 27 April 2019) | |
| An EREC G100 compliant export limitation scheme is present that limits the export from the **Generator's Installation** to the **Distribution Network** to 16 A per phase; and | |
| The **Power Generating Module**s will not operate when there is a loss of mains situation. | |

| **The following information should be submitted with the application:** |
|---|
| Copy of single line diagram of export limitation scheme |
| Explanation / description of export limitation scheme operation including a description of the fail-safe functionality eg the response of the scheme following failure of a:<br>• Power monitoring unit<br>• Control unit<br>• **Power Generating Module** interface unit<br>• Demand control unit<br>• Communication equipment<br>Note, fail-safe tests are not required at installations where all **Generating Unit**s are EREC G83 or EREC G98 **Type Tested**, aggregated capacity is not more than 32 A per phase and export capacity is limited to 16 A per phase. |

| **Additional details:** | |
|---|---|
| Target date for provision of connection / commissioning of **Electricity Storage** devices:** | |
| EREC G100 compliance declaration / EREC G100 Type Test reference as applicable: | |
| Signed : | Date : |
| **The planned commissioning date shall be at least 10 working days from the date of application but not more than 3 months in advance (connection offers are only valid for 3 months). | |

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 |

| | Energy Conversion Technology |
|---|---|
| 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) |

| | Energy Conversion Technology |
|---|---|
| 45 | Storage - Electrochemical Flow Batteries - Zinc – Bromine (Zn –Br) |
| 46 | Storage - Other |
| 47 | Other |