

Business Energy Upgrades Scheme

Contractor Info Form – BMS Controls

Introduction

This form has been compiled to assist you as the Nominated Company/Contractor to ensure you are aware, have the ability and agree to comply with the minimum requirements of the Business Energy Upgrades Scheme for the above measure.

Minimum requirements

The minimum requirements of the scheme are also outlined. Ensure you are satisfied you and your associated installer can commit to all requirements prior to accepting your nomination. Failure to achieve any of these requirements will cause a cancellation of your clients grant offer.

Eligible existing system

Existing BMS Wired

Existing BMS system based on a DDC system

New BMS Wired

Full replacement or first-time installation of BMS system based on a DDC system

Existing BMS Wireless

Existing unitary "out of the box" pre-programmed expandable controls system

New BMS Wireless

Full replacement or first-time installation of unitary "out of the box" pre-programmed expandable controls system

Installer requirements

Min. Qualifications

BMS Specialist Company (certified by associated manufacturer)

RECI Registered Electrician

Technical requirements

Wired

The BMS system shall be based on a DDC system which shall allow for full interrogation of all sensors and control elements from the BMS head end.

All system and individual plant shall at a minimum incorporate time-clock, auto-changeover, frost protection, weather compensation, temperature control and alarm functions.

Building Management System shall be PC based and have a networked distributed intelligence structure

The structure of the Building Management System will require that a manufacturers stand-alone or networked product, shall have the capability to communicate and be fully compatible both at a forward and backward level across the manufacturers product range, without detriment to the new, or existing Building Management System. Compatibility will include the ability to replace and add outstations within a manufacturer's range onto an existing network with no loss of functionality.

The BMS must employ a current signal carrier, operating at speeds up to 19.2KBaud, higher operating speeds apply for process systems only, with error and parity checking. Standard RS232c interfaces with the ability to communicate with other PC based systems.

System devices shall have the capability to communicate via the network, to send alarms, monitor or control data and provide information on a request or send basis. A message shall be acknowledged by the receiving device. If not acknowledged, the message shall be repeated by the sender.

Controllers, networked or otherwise, shall have the capability to operate independently of each other or a supervisory platform

Alarms generated by any outstation shall be processed by a main operator terminal to sort into at least 12 types.

The standard software residing in ROM (firmware) at the outstations shall be structured so that users without computer programming knowledge can configure and modify the control and monitoring strategies.

All works and systems to be completed in line with manufacturers recommendations

All MCCs fitted with Hand/Off/Auto switches, a common circuit shall monitor their auto condition, which shall cause an alarm when any switch is moved from the auto position.

Commissioning shall be in accordance with the "CIBSE Commissioning Code (Series C) - Automatic Controls" and BMS Centre Standards and incorporate the equipment manufacturer's recommendations and requirements

MCC Panels shall be minimum Form 2B – with separation of busbars from the functional units. The terminals for external conductors shall separated from the busbars

Full colour graphics package on head end PC including schematic and floor layouts to indicate all main and floor level plant with min status identification of On,Off, Fault. Logical

(non-specialist) visual based system for facilities team to alter day to day time clocking, set point changes and monitor energy use and fault logging

Remote access capability to be provided to allow monitoring including fault notifications and download of statistics such as energy use.

Automatic monitoring and recording of energy use, in line with Energy Performance of Buildings Regulations 2021 Technical Guidance incorporated on all installations

Capability for the system to incorporate optimisation software package at a later date from external provider

Multilevel security access shall be provided and agreed with the client

Provision of full operating and maintenance manual and training to be provided to the client. (This shall include access codes for all levels of the system should they wish to change providers at a later date.)

CE marked

Wireless

Unitary "out of box" expandable controls system

The multi-zone evohome controller controls the time and temperature of up to 12 heating zones plus a domestic hot water supply if required

Each zone shall have ability to have independent time and temperature control.

To include central touch screen controller of min 4inches with desk or wall mounting options. Ability to provide multiple screen configurations to suit clients need and ability to adjust zone names etc.

Ability to create multi-zone groups to act as one in terms of different available control parameters

Wifi enabled central controller for full remote visibility

Available wireless stations to include at a minimum radiator controller (c/w programmable display), underfloor controller, hot water tank control, room thermostat (c/w digital display)

Energy monitoring and recording capability with remote download options for analysis

CE marked

All equipment to be provided via a single manufacturer

Provision of full operating and maintenance manual and training to be provided to the client. (This shall include access codes for all levels of the system should they wish to change providers at a later date.)

CE marked

Payment documentation

All completion documentation must be uploaded by your client for review and sign off prior to release of grant payment.

Failure by you to provide a full and compliant set of all documentation to them in a timely could cause a cancellation of their grant offer.

Documentation

Testing, Commissioning Cert (Manufacturer or Agent) - incl. layout drawings of all points

RECI Cert

Equipment Data Sheets Incl. Certification (incl. panel drawings, narrative and points list)

Declaration of Works

Invoice of Works

Photographs of the Installation

De-Minimus Declaration (where applicable)

GBER requirements verification (where applicable)

Photographs

Installation Location (Before) Incl. Existing Kit (fields devices)

Installation Location (After) Incl. New Kit (field devices)

New Equipment - Labelling

Controls Panel(s)

Pipework Connections

Controls Point Wiring

Power Point Wiring

Company & installer registration

We do not require an applicant to select a company from a register. This allows applicants to use their preferred company to complete the works and allows more of the supply chain to participate in the scheme.

However, in order to monitor quality within the supply chain for the scheme we do require that all companies and their associated installers carry out a registration process the first time they are nominated under the scheme. This is a simple process and you do not have to be registered to commence the works but rather before your client makes an application for payment.

Please note as part of the registration you can decide whether you wish to be on the published register of companies and installers or not. If you opt out of this list, you will remain in the application portal in case you want certain clients to select you on future applications. If you decide to remain visible on the register you will be exposed to a strong line of prospects through the scheme.

It is important that prior to commencing the works you and your associated installer download the registration forms for your respective roles and satisfy yourselves you can comply with all Terms and Conditions outlined therein.

Please follow the link below to complete the simple Business Energy Upgrades registration process, if this is your first involvement with the scheme. You can register for a number of measures through in a single application once you possess all the relevant requirements:

<https://www.seai.ie/register-with-seai/>