

Note: This application form is intended for wood pellet stoves and inserts. If you would like to apply to have a wood pellet boiler listed, please use the appropriate alternative form available from www.seai.ie/greenerhomes

A. RATIONALE

The Greener Homes Scheme Phase III provides financial assistance to homeowners who intend to purchase a new renewable heating system for an existing home. The scheme is administered by The Sustainable Energy Authority of Ireland and aims to increase the use of sustainable energy technologies within Irish homes. The objective of the equipment registration process is to promote quality in the marketplace and maintain consumer confidence to support the continuing deployment of wood pellet stoves and inserts in Ireland and to facilitate the administration of the scheme. The equipment registration process is administered by SEAI's Renewable Energy Information Office.

B. CONDITIONS FOR REGISTRATION

The Greener Homes Scheme Phase III provides support towards wood pellet stoves and inserts installed in residential buildings for room heating and / or central heating purposes. Only registered products will be eligible for funding under the Greener Homes Scheme Phase III. This list of registered products will be maintained on SEAI's Greener Homes Scheme website at:

<http://www.seai.ie/index.asp?locID=760&docID=-1>

In order to be eligible for registration, the equipment to be installed should meet the following criteria:

B.1. Definition of eligible product and identification:

To be eligible the appliance must exclusively use wood pellets as the fuel source.

Verification of compliance:

A clear description of the appliance must be provided with sufficient details to be able to identify the appliance (manufacturer, capacity, identification name or number, construction details, sizes, fuel(s) permitted), their intended application and general considerations for their usage as a heating device.

B.2 Performance and reliability:

For a wood pellet stove or insert to be eligible for the registered list, documentation demonstrating compliance with the minimum standards described below must be submitted.

1. **CE marking:** compliance with Low Voltage Directive (TH 42075; Directive 73/23/EEC) and Machinery Directive (TH 42073; Directive 98/37/EC).
2. **EN 14785¹:** Residential space heating appliances fired by wood pellets – Requirements and test methods;
3. **Efficiency:** Minimum efficiency at nominal heat output: 80%;
4. **Emissions:** Mean carbon monoxide concentrations emissions not to exceed 0.04% by volume (500 mg/m³) at nominal heat output and 0.06% (750 mg/m³) by volume at partial heat output as per EN 14785.
5. **Burn-back Protection²:** the appliance should be equipped with suitable burn back protection.

Verification of compliance:

With regard to compliance with CE marking, a declaration of conformity, signed by the manufacturer, confirming that all the requirements of EC directives listed above are satisfied.

A copy of the report(s) of testing according to EN 14785 demonstrating that the appliance efficiency and emissions requirements are met shall be provided for each family / range of appliances to be registered (see section B.3 for registration of a family / range). The test report shall be from a laboratory accredited for testing according to the above standard.

The report shall identify clearly:

- name and contact details of the testing laboratory;
- standard used for testing;
- name and details of the manufacturer;
- appliance(s) covered by the test;

Test results must be unequivocal. The test report shall be dated and signed.

Documentation should be submitted with the application outlining the technical basis of burn-back protection. Appropriate certification should also be submitted if available.

¹ Standard is commonly applied in Europe. Other test standards can be accepted on a case by case basis at the discretion of SEAI. Please submit full test report clearly showing accredited test laboratory, specific appliance & capacity, signed and dated.

² Burn back protection is an essential requirement to minimise the potential for the fuel to burn back along the fuel-feed system into the fuel storage hopper.

B. 3 How to get a family / group of appliances registered?

For a family or range it shall be permissible to test only selected appliances across the family or range and to verify only selected constructional and performance characteristics on the others, subject to a clear decision being made that the appliances are part of a family or range of appliances. This is in line with EN 14785 test protocol.

B.4 System Documentation:

Instructions written in English shall be provided with the appliance describing the installation, operation, maintenance and, if assembled on site, the assembly of the appliance in accordance with EN 14785.

The installation instructions shall contain references to:

- a statement to the fact that “all national and local regulations and European Standards shall be complied with when installing the appliance”;
- full assembly instructions for the appliance, especially if supplied in parts;
- appliance model, number or type;
- nominal heat output in kilowatts or watts for each type of recommended fuel;
- partial heat output in kilowatts or watts
- water heating output in kilowatts or watts for each type of recommended fuel if appropriate;
- the requirements for the electrical power supply
- an indication of the heat released to the room in which the appliance is installed for each type of recommended fuel;
- maximum operating water pressure in bar, where applicable;
- mass of the appliance in kilograms;
- any necessary safety clearance distances from combustible materials and/or any other recommendations for protective measures to protect the building construction against the risk of fire;
- requirements for the supply of combustion air and where necessary the ventilation and air supply requirements for simultaneous operation with other heating appliances; NOTE Extractor fans when operating in the same room or space as the appliance may cause problems.
- the need for any air inlet grilles to be so positioned that they are not liable to blockage;
- minimum chimney draught requirements (in Pa) for safe operation, nominal heat output and partial heat output;
- flue gas mass flow in grams per second where required by national/local regulation (or alternatively the nominal heat output and the appliance efficiency and mean CO₂ concentration when operating at nominal heat output should be given for all test fuel types);
- the mean flue gas temperature directly downstream of the flue spigot/socket in °C for nominal heat output and partial heat output;
- advice on the need to provide access for cleaning the appliance and the flue gas connector and the chimney flue;
- whether or not the appliance is suitable for installation in a shared flue
- installation of cut-off and damper devices, as well as all safety devices where applicable;
- requirements for the installation space within the surround and outside the surround in the radiation area, taking out coming convective hot air into consideration as well as the surface temperature of the surround;
- the floors: “the appliance shall be erected on floors with an adequate load bearing capacity and if an existing construction does not meet this prerequisite, suitable methods (e. g. load distributing plate) shall be described to show how it can be achieved”;
- for inset appliances, in all cases the minimum dimension of the required builder’s opening and/or fire front opening in the surround;

- the water capacity of any stove and instructions for fitting a drain-cock in the lowest part of the system (where applicable);
- the setting of the temperature controller and method of adjusting the “cold” setting distance;
- advice on a means of dissipating excess heat from the stove, such as using a radiator;
- any commissioning instructions, as appropriate;
- the installation and operation of any control and safety equipment;
- advice on the installation of any air grilles, especially in relation to the temperature of surrounding walls, floor, ceiling or other structure around the appliance.

The operating manual shall contain references to:

- a statement to the fact that “all national and local regulations and European Standards shall be complied with when operating the appliance”;
- national and local operation conditions particular to the country in which it is to be distributed and on the permitted type of fuels;
- a list of the types and sizes of recommended fuels;
- any modifications necessary to the appliance and/or to the operation of the appliance when using different fuels (diameter);
- instructions, for refuelling the hopper;
- instructions for the safe and efficient operation of the appliance including the ignition procedure;
- advice that the appliance shall not be used as an incinerator and that no other fuels than pellets shall be used;
- advice on the correct operation of any adjusting devices and controls;
- correct operation for seasonal use and for adverse flue draught or weather conditions particularly where there is the potential for freezing;
- warning that the firebox must always be closed when the appliance is in operation;
- advice on the correct operation of any thermal discharge control or other control or safety equipment, where applicable;
- ventilation requirements for simultaneous operation with other heating appliances;
- advice on the regular cleaning of the appliance, flue gas connector and chimney flue and highlight the need to check for blockage prior to lighting after a prolonged shutdown period;
- instructions on ensuring the adequate provision of combustion air and ventilation air and safe removal of flue gases;
- instructions on simple fault finding and the procedure for the safe shut down of the appliance in event of malfunction e.g. overheating, interruption of water supply;
- a warning that the appliance especially the external surfaces will be hot to touch when in operation and that due care will need to be taken;
- need to adhere to any necessary safety clearances from combustible materials and guidance on protecting against the risk of fire in and outside the radiation area;
- warning against any unauthorized modification of the appliance;
- a recommendation to use only replacement parts recommended by the manufacturer;
- advice about action in the event of a chimney fire;
- the appliance efficiency and CO values;
- advice on the adjustment of any air grilles, where fitted.

C. HOW TO APPLY FOR EQUIPMENT REGISTRATION?

C.1. Who can submit an application?

The application for equipment registration can be submitted by the equipment manufacturer or one of its designated agents in Ireland. If the application is submitted by a manufacturer who is not based in Ireland, an Irish agent must be identified as a local contact during the application process.

C.2. How to submit an application?

Before submitting, ensure that you have completed the application form correctly and that you have enclosed with your application all relevant information required (see checklist). You can then submit your application by post to:

Joe Jolley.
Sustainable Energy Authority of Ireland
Renewable Energy Information Office
Unit A
West Cork Technology Park
Clonakilty
Co. Cork

If the information above is available electronically, you are welcome to supply it by email to joe.jolley@reio.ie as well as by post. If you need further information, please do not hesitate to contact Joe Jolley at +353 (0)23 8863394.

C.3. How long does the registration process take?

Upon receipt of an application, you will be notified within 5 working days if any information required to complete the registration process is missing. Once the application file is complete, the registration process will be completed within 15 working days.

If the application is successful, the registered equipment will be included in SEAI's list of registered products at the next update. The lists is updated every 10 to 15 working days.

D. HOW TO BE LISTED AS A SUPPLIER?

Designated Irish suppliers of a particular product can be listed under each manufacturer's section within the list of registered products. This is to facilitate consumers identifying companies supplying a particular product for information, quotation and procurement.

To register as a supplier, please complete your contact details in the application form and return it to SEAI-REIO (contact details in C.2). This should be accompanied by a signed declaration from the manufacturer or the main distributor, stating clearly that your company is recognised as one of its agents.

The list of suppliers is limited to 10 companies for each manufacturer's section.

Application Form

1. SUPPLIER DETAILS

Name: _____
Address 1: _____
Address 2: _____
Address 3: _____
County: _____
Tel: _____
Mobile: _____
Fax: _____
Email: _____
Website: _____

Contact persons:

Company director(s): _____

Sales representative(s): _____

2. SALES:

Please indicate your sales figures in number of appliances supplied or installed directly by your company in Ireland: Please enter figures for different manufacturers in separate tables if you supply appliances from multiple manufacturers. If you require further tables please print or copy this page and include with your application.

Type Appliance	Supplied ³	Installed ⁴
2004		
Stove, Room Heating Only		
Stove, Room & Water Heating		
Insert, Room Heating Only		
Insert, Room & Water Heating		
2005		
Stove, Room Heating Only		
Stove, Room & Water Heating		
Insert, Room Heating Only		
Insert, Room & Water Heating		
2006		
Stove, Room Heating Only		
Stove, Room & Water Heating		
Insert, Room Heating Only		
Insert, Room & Water Heating		

³ Number of stoves and / or inserts supplied to other companies.

⁴ Number of stoves and / or inserts installed directly by your company.

4. WARRANTY

Please declare how many years warranty (parts and labour) your customers are offered on the appliances supplied by your company. Minimum requirements for registration are 2 years (1 year for the burner).

Stove or Insert: years.

Burner: years

5. DECLARATION

Please sign and date the following declaration.

I/we confirm that the information submitted in the application form is correct to the best of my/our knowledge. I/we accept that the final decision on whether a specific appliance is registered under the Greener Homes Scheme Phase III is at the discretion of SEAI.

Name: _____

Authorised Representative of: _____

Signature: _____

Date: _____