



Rialtas na hÉireann
Government of Ireland

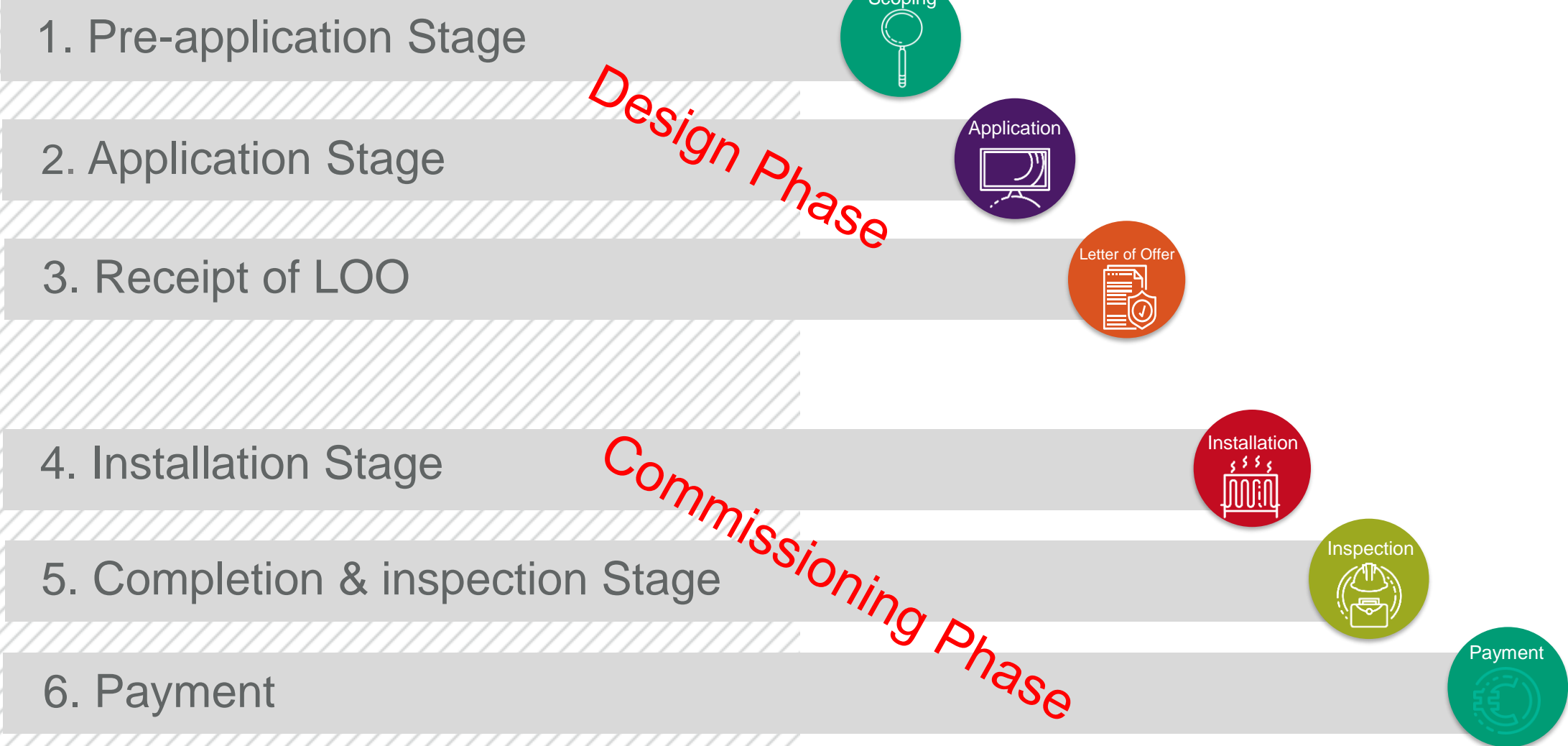
www.seai.ie

Support Scheme for Renewable Heat – SSRH How to Apply

Let's Talk Poultry Webinar
30th June 2021



Overview



What are the Component Stages and Estimated Durations of an SSRH Application?

1. Pre-application Stage - Take your time and Scope it out.
2. Application Stage - Realistically allow for at least 3 months.
3. Receipt of LOO - 1 year duration is standard
4. Installation Stage - 6 months
5. Completion & Inspection Stage - Allow for at least 2 months
6. Payment - From scheme start date (Inspection) 3 months + 2 weeks

Estimated total duration from application to first payment – 14 to 15 months

1. Pre-application stage

- Scoping – finding a Supplier/Design Engineer– fixing a solution.
- <https://www.seai.ie/business-and-public-sector/business-grants-and-supports/support-scheme-renewable-heat/>

Tariff operational scheme documents and forms

Application Stage

Document name and link	Description
Tariff Scheme Operating Rules and Guidelines	This document sets out the Tariff Scheme process, the eligibility criteria for participating in the Tariff Scheme and the operating rules in respect of the Tariff Scheme.
Declaration of Solvency	Each applicant must complete and deliver a declaration of solvency in the form prescribed by SEAI confirming solvency of the applicant at the Application Stage and during the Payment Cycle. The Declaration of Solvency should be signed by the applicant or an authorised person of the applicant.
Declaration of Funding	Each applicant must complete and deliver a declaration of funding in the form prescribed by SEAI at the Application Stage. The declaration of funding should be signed by the applicant or an authorised person of the applicant.
Declaration of Establishment	Each applicant must complete and deliver a declaration of establishment in the form prescribed by SEAI. This declaration of establishment should be signed by the applicant or an authorised person of the applicant.
Eligible Building Declaration	Each applicant must submit a declaration to SEAI to confirm that the Eligible Building is not used for domestic purposes. This declaration should be completed by the applicant or an authorised person of the applicant.
Design Report Template	This document provides guidelines on the main topics to be included in the Design Report.

2. Application Stage –

- Applicants input information to the online portal – Save it, once complete, submit.
- Feedback from SEAI technical assessors

The screenshot shows the SEAI Project Evaluation Platform registration interface. At the top left is the SEAI logo (Sustainable Energy Authority of Ireland). To the right is the title 'Project Evaluation Platform'. Below the logo are navigation links for 'Login', 'New User Registration', and 'Help'. The form is divided into three steps:

- Step 1: Select / Setup Organisation Group**
 - Field: **Organisation Name: *** (dropdown menu with '+' and '?' icons)
 - Text: "If the organisation does not exist, please click **Add** with "+Add" option above (if there are no results that match the criteria)"
- Step 2: Selected User Type**
 - Field: **User Type: *** (dropdown menu)
 - Options: 'Applicant' (highlighted with a red box and arrow) and 'Contributor'
- Step 3: New User**
 - Field: **First Name: ***
 - Field: **Last Name: ***
 - Field: **Email: ***
 - Field: **Contact No.: ***
 - Field: **Address line 1: ***

3. Receipt of Loo

- No expenditure can take place before the LOO is signed and returned to SEAI
- Letter of offer is a contract that gives the applicant a year to complete the proposed project.
- The project is considered complete when all the required documentation has been submitted to SEAI for review.
- The LOO will contain details of the project and the Annual Heat Cap.

3. Receipt of Loo – Annual Heat Cap

Primary Energy vs Delivered Heat

Fuel Purchased = Primary Energy

Annual Heat Cap = Delivered heat, registered on the meters

- Historical fuel consumption x Heating efficiency of the existing boiler = Cap
- 94,500 litres of kerosene x 10.18 kWh per litre = 962 MWhs
- 962 MWhs x 75% efficiency of the old boiler
- Annual Heat Cap of 721.5 MWhs

OR

- The proposed production figures X Benchmark KPI of 1.227 kWh per broiler
- i.e. 700,000 broilers produced per year = 700,000 x 1.227 = 858.9MWhr/yr.
- Multiplied by the % efficiency of the proposed boiler e.g. 80%.
- Annual Heat Cap of 721.5 MWhs

7. Ongoing Obligations

- Meters reading,



7. Ongoing Obligations

Fuel invoices,

Recommend noting down the following details in a spreadsheet:

- Invoice number
- Quantity in weight
- Moisture content
- Date
- Supplier name (WFQA)

<u>Inv</u>	Date	MC	Cal Val	Qty Ton	kWh	Supplier
Opening Stock	20/03/2020	25%	3.86	25.5	98,430 kWh	OS
204	26/03/2020	25%	3.86	21.5	82,990 kWh	McCauley
209	24/06/2020	25%	3.86	20	77,200 kWh	McCauley
212	19/08/2020	25%	3.86	20	77,200 kWh	McCauley
221	16/12/2020	25%	3.86	20	77,200 kWh	McCauley

7. Ongoing Obligations

- 6 monthly Report

FOR BIOMASS HEATING SYSTEMS

SIX MONTHLY OPERATIONS REPORT ³			
Participant reference number		SSRH500	
Start date	24 th Sept 2020	Closing date	25 TH March 2021
Heat meter reading (start) kWh ⁴	265,000 kWh	Heat meter reading (closing) kWh	613,700 kWh
Eligible heat (difference in meter readings)		348,700 kWh	
Biomass Fuel type (e.g. pellets, chips, etc)		Wood Chip	
Opening stock (Kg)		4000 kg	
Total deliveries this six months		Add up all your totals in kg	
Closing stock		Estimate your stock on the 25 th March	
Total fuel consumed (OS+D-CS)		(4000kg + all deliveries) – estimated remaining fuel	
Calorific value (Eligible Heat kWh / fuel consumed kg)		This will depend on moisture content as stated in the invoices	
Submitted by (name)			

7. Ongoing Obligations

- Annual Declaration and Production Report

Fuel Purchased during 12 mt period	187,891 kg
Calorific Value of pellet per kg	4.8 kWh/kg
Total eligible heat claimed	721,500 kWh
Primary energy consumed by boiler	901,875 kWh
Broilers produced during 12mt period	740,000 Birds
Key performance indicator kWh per Broiler	1.2188 kWh
Benchmark KPI	1.2270 kWh

- b. period of the declaration⁴ (known as the "Declaration Period"):

From (Date): 26.03.20 Zero reading 129,934 kWh

To (Date): 26.03.21

- c. meters readings for the Declaration Period:

	Date	Meter Reading ⁵
Starting meter reading (i.e. the first quarter meter reading)	26.06.20	197,460 kWh
Second quarter meter reading	24.09.20	265,000 kWh
Third quarter meter reading	24.12.20	423,400 kWh
Closing meter reading (i.e. the fourth quarter meter reading)	25.03.20	613,700 kWh

- d. efficient heat use for Declaration Period:

	Value	Units
Total eligible heat claimed (i.e. the total of the four quarters at c. above)	483,766	MWh
Heat use (e.g. production output, area heated or <u>other</u> benchmark unit)	Please insert number of birds produced	As used in original application e.g. number of units produced, weight of units produced, area of space heated, etc.
Operating ratio (e.g. heat per unit output or unit area)	Divide no of birds, by 483,766 kW	kW per unit

SSRH Support Scheme for Renewable Heat

- Why So Much Paperwork?



Sense Check - Fuel Invoices to Output

1 Tonne of Wood Pellets is approximately 4,800kWh of Primary Energy



A Typical System is Approximately 80% Efficient



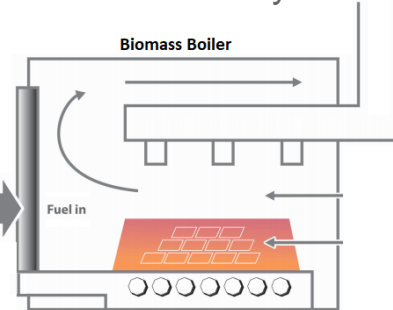
80% of 4,800kWh is 3,840 kWh

Number of Units Produced, Compared to Industry Benchmarks

WFQA Fuel Purchased (Invoices)



% Efficiency of the Boiler & Distribution System



Thermal Units Through the Heat Meters



Output



An Example Benchmark is 1.227 kWh per bird (Teagasc), 1 tonne of pellets (4,800kWh) should produce about 3,912 Birds

Thank You.
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