

**Renewable Heat Incentive**

**Heat Loss Calculation - template for providing a summary of the case for accepting a heat loss calculation**

**Introduction**

	<b>Value</b>	<b>Explanation/ Comments</b>	<b>Guidance</b>
<b>RHI Number:</b>	Personal information re		To match your application
<b>Installation Name:</b>	Stephen Brimstone		To match your application

**System Overview**

<b>Description</b>	The biomass boiler is located in the Workshop/Livestock building. This boiler provides 100% space heat for this building via a fan coil. The biomass boiler also provides 100 % space heating and hot water to the dwelling house which is located across the yard from the workshop/livestock building. The biomass boiler connects to the dwelling house via buried a buried pre-insulated pipe, namely microflex duo. The workshop/livestock building is used for a combination of machinery and vehicle maintenance along with an area for lambing. The buildings are wholly enclosed.		Brief description of your heating system
<b>Number of buildings</b>	2	Workshop/livestock building and Dwelling house	
<b>Number of meters</b>	1	1 at wood pellet boiler	Number of RHI-eligible heat meters currently installed
<b>Number of external pipe runs</b>	2	1 flow & 1 return	Number of separate pipe runs
<b>Total length of external pipe runs (m)</b>	28.6	2 x (14.3m)	Total combined length of separate pipe runs
<b>Total installation cost for your RHI-eligible installation</b>	15019.56	Invoice from Installer	Describe the evidence that could be used to support this figure, if requested by Ofgem

**Rationale for submitting a Heat Loss Calculation**

<b>Please summarise the reasons you believe it would be "unduly burdensome" to fully comply with the Complex Metering arrangements as defined in the RHI Regulations</b>	The overall heatloss of all the external pipework amounts to 1.7% of the total eligible heat output therefore fitting additional heat meters would be more inaccurate than the heat loss calculation.	<ul style="list-style-type: none"> <li>To include all relevant technical, financial or other factors</li> <li>Should you wish to include any photographs or documents, please paste these into separate, labelled sheets within this workbook</li> </ul>
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**Summary of key values relating to your heat loss calculation**

<b>Calculated annual heat loss figure (kWh) [AHL]</b>	1,531		This is the output of the heat loss calculations submitted together with this summary sheet
<b>Projected annual eligible heat output (kWh)</b>	90,957		Include the calculation used to arrive at this figure
<b>Projected annual value of RHI payments (£), based on current tariff rates</b>	5,821		Include the calculation used to arrive at this figure
<b>Total cost of metering to the complex metering requirements (£), based on current tariff rates</b>	N/A		Include the calculation used to arrive at this figure. You should also provide the number of meters you estimate to be required, and break this down where possible into purchase (based on quoted prices) and installation costs.

**Summary of how periodic support payments would be calculated [assuming this case and calculation were accepted]**

	<b>Meter number/ identifier(s) which measure this component</b>	<b>Explanation/ Comments</b>	<b>Guidance</b>
<b>"B" - the heat used for eligible purposes (where such heat uses are supplied with heat from the heating system of which the installation forms part)</b>	0017954 (Biomass boiler) - Quarterly Heat Loss (QHL)	Heat meter reading for Biomass boiler minus the quarterly heat loss calculation for external piping	
<b>"C" (biogas only) - the heat directed from the accredited RHI installation or delivered from any other source to the biogas production plant which produces the biogas combusted (other than heat contained in feedstock used to produce biogas by anaerobic digestion)</b>	N/A	N/A	<ul style="list-style-type: none"> <li>You should include here the <b>meter serial numbers</b> that would be combined to provide each of the quantities</li> <li>You should use the symbol "QHL" to represent the Quarterly Heat Loss - this is the calculated heat loss figure (based on 1/4 of the calculated annual heat loss given above) that would be deducted from one or more meter readings in order to give an accurate periodic payment calculation for an installation</li> <li>There are examples of how payments are calculated in Volume 2 of the RHI Guidance Document, available on the Ofgem website</li> <li>In summary, periodic support payments would generally be made based on the formula: quarterly payment = tariff rate x (B-C) x (D/E)</li> </ul>
<b>"D" - the heat generated by the RHI installation in kWh</b>	0017954 (Biomass boiler)		
<b>"E" - the heat generated by all plants (eligible and ineligible for the RHI) that are supplying heat to the heating system of which the installation forms part</b>	0017954 (Biomass boiler)		