

Application information requirements for assessing air emissions from biomass boilers at EPR intensive farms

Required information

Please supply the following information:

Number of biomass boilers	1
Stack height (from ground level)	10m
Thermal input in MW or kW of each boiler	1047kW
The exact grid reference(s) of the stack(s)	
The exact grid reference of the centre of the farm	
A plan giving layout of the farm including dimensions.	
Fuel type (virgin wood, straw or miscanthus)	Virgin & Grade A Recycled Wood chips
Approximate fuel storage tonnage	28 tonnes
Details of accident prevention measures - please provide risk assessment document	
Details of what happens to the ash, e.g. exported from site as waste or added to the manure for spreading on land.	
Confirmation that the boiler and its installation meet the technical criteria to be eligible for the Renewable Heat Incentive (the boiler manufacturer should have proof of certification) please provide certificate (<i>scheme not open to new applications but boiler should still meet the criteria</i>)	Certificate Provided
Additional information required only if the boilers do not screen out as detailed in the guidance at https://www.gov.uk/guidance/intensive-farming-risk-assessment-for-your-environmental-permit#air-emissions-biomass-boilers	
Adjacent Building heights	
Flue diameter	300mm
Flue gas exit minimum temperature	150
Exit velocity in m/sec	11m/s
NO_x concentration in mg/Nm³	152
CO concentration in mg/Nm³	28
PM₁₀ (dust) concentration in mg/Nm³	34
O₂ concentration %	10%

(Please note the 'N' in Nm³ means 'normal' which means the gas volume, which depends on temperature and pressure, is measured at 101.325 kPa and 0 °C)