

APPENDIX 1**Type of Information to include in a planning application for each renewable and low carbon technology selected**

Table 7 below sets out the type of information required to be included as part of the planning application for each of the Renewable and Low Carbon Energy Technologies selected for inclusion in the Energy Statement (see Step 4 of the Energy Statement p. 21).

Table 7: Detailed information requirements for each type of technology

Technology	Information Required
Combined Heat and Power	<ul style="list-style-type: none"> • Description of technology • Capacity e.g. electrical output, heat output • Capacity as percentage of total site energy demand • Layout plan showing site size, boundary and location of infrastructure (e.g. location of boiler house, CHP units, and boilers) • Floor plans and elevations • Connection to a distribution network • Noise and visual impact • Fuel Type to be used • Details of operation and management of installations
Solar Water Heating	<ul style="list-style-type: none"> • The design of collector, flat plate etc. • Capacity, e.g. 8 panels, 40 tubes, total area • Capacity as a percentage of total site energy demand • Elevations to show the proposed location of the module • Orientation/ roof pitch • Detail of roof mounting arrangement, if applicable • Roof plans to show the location of the module • Potential shading i.e. trees and other buildings • Visual impact
Photovoltaics	<ul style="list-style-type: none"> • Description of technology • Capacity • Capacity as a percentage of total site energy demand • Calculation to show it meets the 10% requirement • The design of the module or array • Elevations to show the proposed location of the module • Orientation/ roof pitch • Detail of roof mounting arrangement, if applicable • Roof plans to show the location of the module • Potential shading i.e. trees and other buildings • Visual impact
Micro Wind	<ul style="list-style-type: none"> • Description of technology

Turbines	<ul style="list-style-type: none"> • Capacity e.g. electrical output • Capacity as a percentage of total site energy demand • Layout plan showing the site size, boundary and location of infrastructure (e.g. location of turbines, sub-station, access tracks) • Elevation plan • Roof plan to show location of wind turbine (if roof mounted) • Average site wind speed (minimum 12 months data) • Grid connection • Proximity to dwellings • Noise, vibration and visual impact
Ground source heating/ cooling	<ul style="list-style-type: none"> • Description of technology (horizontal or vertical) • Capacity (for heating and cooling) • Capacity as a percentage of total site energy demand • Number and location of bore holes • Location of pipework • Plan showing tree locations and their potential rooting zones • Connection details to the building
Air Source Heat Pump	<ul style="list-style-type: none"> • Description of technology – air-to-air, air-to-water system • Capacity e.g. kW per dwelling • Capacity as a percentage of total site energy demand • Location of equipment • Elevations to show location and design of air source heat pump • Visual impact, e.g. equipment on external wall • Noise report (should be available from the manufacturer)
Micro Biomass	<ul style="list-style-type: none"> • Size and description of technology • Capacity e.g. kW • Capacity as a percentage of total site energy demand • Floor plans and elevations showing the location and design of the plant, flue and storage facilities • Details of vehicle access to and from the plant • Source of fuel supply and principle transport routes to and from the supply • Landscaping and visual impact of plant • Details of noise emissions • Details of air pollution
Micro-hydro	<ul style="list-style-type: none"> • Layout plan showing location of turbine • Elevations of turbine • Capacity e.g. kW • Capacity as a percentage of total site energy demand