

CONGLETON TOWN COUNCIL

COMMITTEE REPORTS AND UPDATES

COMMITTEE:	Town Hall, Assets and Services Committee Meeting		
MEETING DATE AND TIME	28th September 2023	LOCATION	Congleton Town Hall
REPORT FROM	Town Hall Manager – Mark Worthington		
AGENDA ITEM REPORT TITLE	Agenda Item 10: Town Hall Decarbonisation Report		
Background	<p><u>Gas Fired Central Heating System</u></p> <p>The gas fired central heating system is currently run in a 100% manual mode with no effective control in different locations around the Town Hall building; resulting in some areas being overheated (the Offices) and other areas feeling cool (the Main Hall) as well as impacting significantly the purchase of gas. The space temperature sensor in the Main Hall has now been moved to a correct location and is providing a more accurate reading for the entire space. The building services contractor has visited site and has confirmed that the 3-way control valve and isolating valves are functioning, and hence the heating system can be reconfigured to better serve the whole building. It is proposed to add an additional space temperature sensor in the offices in a location to be decided to enable dual heating zone control, reducing operating costs and improving comfort.</p> <p><u>Museum Roof Solar Panels</u></p> <p>A quotation has been received to install Solar Panels on the roof of the Museum with a view to powering the existing air conditioning units. This is a practical solution to reduce electricity consumption particularly in the summer months when cooling is a requirement.</p> <p>Due to the use of slate roofing tiles on the roof, an additional quotation is being sought for a roofing contractor to provide scaffolding and to remove the existing tiles and A quotation has been received to install Solar Panels on the roof of the Museum with a view to powering the existing air conditioning units. This is a practical solution to reduce electricity consumption particularly in the summer months when cooling is a requirement.</p> <p>Due to the use of slate roofing tiles on the roof, an additional quotation is being sought for a roofing contractor to provide scaffolding and to remove the existing tiles and a quotation has been received to install Solar Panels on the roof of the Museum with a view to powering the existing air conditioning units. This is a practical solution to reduce electricity consumption particularly in the summer months when cooling is a requirement.</p>		

<p>Update</p>	<p><u>Gas Fired Central Heating System</u></p> <p>The price estimate to reconfigure and re-commission the heating control software is £3,700.00 plus vat. The installation of a second temperature sensor will be required in the first floor offices to control the temperature in areas away from the Grand Hall. The building services contractor visited the site on 19.09.23 to investigate options for the location of a second thermostat. The second thermostat will control the temperature in this area once the heating system has been reconfigured to correctly utilise the 3-way valve and the heating software has been re-commissioned. Following these alterations to the system, the Gand Hall and other areas of the building will have the ability to operate independently of each other when a call for heat is required. The temperature in the Grand Hall will no longer dictate the temperature of the rest of the building.</p> <p><u>Museum Roof Solar Panels</u></p> <p>From the advice we have received, the south facing aspect of the Museum roof could accommodate one row of 9 x 370W and one row of 10 x 370W solar panels. The east facing roof could accommodate one row of 5 x 370kW panels in portrait. Combined, these would give a peak performance of 8.88kW, and an annual production of approximately 6,666kW hours. The quote to install these panels and associated electrical work is £11,938.05 plus VAT. This quote does not include costs for works to the Museum roof in advance of the any solar panel installation. An area of tiles 11.6 metres x 4.8 metres on the south aspect of the museum roof and 6 metres x 2.8 metres on the east aspect will need to be removed and then restored to allow the solar panels to be installed. We are awaiting quotes to carry out this additional roofing work.</p>
<p>Financial</p>	<p>To be in accordance with allocated budgets and financial regulations.</p>
<p>Environmental</p>	<p>To assess via the procurement process environmental impact and benefits.</p>
<p>Equality</p>	<p>Where applicable in the procurement od services this is taken into consideration.</p>
<p>Proposal</p>	<p>To receive the report relating to Town Hall Decarbonisation.</p>