
REPORT TO THE MEETING OF THE EXECUTIVE 22 SEPTEMBER 2010**PORTFOLIO: FINANCE AND RESOURCES****REPORT FROM HEAD OF LEGAL, ESTATES AND MEMBER SERVICES****SUBJECT: CLIMATE C02DE 2010 ACTIONS****1 DECISION BEING RECOMMENDED**

- 1.1 That the budget of £57,500 capital for the CO2de actions be released to provide a replacement boiler in the Old House, Rochford, to change the heating system in No. 15 South Street, Rochford, from electric to gas, to upgrade the controls in the Old House and No. 19 South Street, to replace the existing bottled chilled water dispensers with plumbed in devices.

2 FORWARD PLAN REFERENCE No: 06/10**3 REASONS FOR RECOMMENDATION**

- 3.1 These changes will reduce Rochford District Council's energy consumption and Carbon Footprint in a measurable way, which will be reflected in the energy costs going forward.
- 3.2 The existing heating system in the Old House has been found to be about 25% undersized, this means that during cold weather the heating is supplemented with electric fan heaters. A Kwh of gas costs 1.7p whereas the same Kwh of electricity costs 12.7p.
- 3.3 The heating in No. 15 is provided by a mix of under-floor, storage and local fan heaters all using electricity at 12.7 p/Kwh, this will be replaced by gas at 1.7 p/Kwh. In addition the type of control provided will allow better management of energy consumption.
- 3.4 The improvements to the controls in No.19 and the Old House will allow the boilers to be operated more efficiently and can be expected to reduce energy consumption by 5-10%.
- 3.5 Replacing the bottled water with plumbed in water dispensers will reduce the carbon footprint of the delivery, reduce storage and result in lower costs. A plumbed in dispenser will be purchased for £279 each with an annual maintenance cost of £80, the current bottle dispensers cost £99 a year maintenance and about £300 a year each for bottled water supplies.
- 3.6 The balance of the monies will be spent on replacing the paper towels in a number of the toilets with high efficiency hand driers and to provide an improved level of loft insulation to No. 15 South Street.

4 ALTERNATIVE OPTIONS CONSIDERED

- 4.1 The use of renewable heat sources has been considered, however, the capital cost implications have ruled them out.
- 4.2 The use of heat pumps has been considered but the overall seasonal efficiency of these devices would result in considerable quantities of full price electricity being used to supplement the heating during cold periods.

5 RISK IMPLICATIONS

- 5.1 The major cost elements have been costed by competitive tender and the details closely reviewed with the contractors.
- 5.2 The design for the Old House is still being finalise; the details must be carefully considered given its status as a Grade 2* listed building.

6 ENVIRONMENTAL IMPLICATIONS

- 6.1 These actions will result in a measurable improvement in energy consumption by Rochford District Council, which will be reflected in future costs and demonstrated in the NI185 returns for 2010/11 as reducing energy consumption and the CO2 footprint.

7 RESOURCE IMPLICATIONS

- 7.1 The monies are provided within the 2010/11 budgets.

I confirm that the above recommendation does not depart from Council policy and that appropriate consideration has been given to any budgetary and legal implications.

SMT Lead Officer Signature: _____

Head of Legal, Estates and Member Services

Background Papers:

Climate Change Budget report

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