

## **ENERGY AND ENVIRONMENTAL CONSERVATION SPEND TO SAVE 2004/05 PROGRAMME**

### **Abstract**

This report seeks approval to the provision of supplementary funding from the Property Renewal and Repair Fund to undertake a programme of energy and environmental conservation projects in support of the Council's Energy Management Strategy at an estimated cost of £110,000.

### **RECOMMENDATION**

The Resources and Central Services Committee is recommended to: -

1. note the programme of energy and environmental conservation projects planned for 2004/05 and
2. approve the bid for supplementary funding in the sum of £110,000 from the Property Renewal and Repair Fund in 2004/05.

### **1 INTRODUCTION**

The Energy Management Strategy adopted by the Council requires the undertaking of programmes of "Spend To Save" programmes which will contribute to a co-ordinated strategy for reducing the greenhouse gasses emissions of Council non-housing properties, in conformance with the objective set by the Government of achieving a 12.5% reduction from 1990 levels by 2010.

It is proposed to carry out a programme of such projects in 2004/05 and this report seeks approval of funding provisions from the Property Renewal and Repair Fund.

### **2 BACKGROUND**

A series of successful programmes of "Spend to Save" projects have been undertaken in previous years, as detailed in Report No 742/03, REVIEW OF THE ENERGY MANAGEMENT UNIT.

It is planned to undertake a programme of "Spend to Save" projects in 2004/05 to reduce energy consumption, reduce CO<sub>2</sub> production, trial new technology and continue to provide training of specific council employees.

The proposed programme comprises:-

- The installation of a micro Combined Heat and Power [CHP] system with associated Building Management System as a contribution to the refurbishment of Camus House, Residential Home for Elderly Persons.

This will improve overall efficiency, reduce the current level of production of CO<sub>2</sub> emissions and enable the generation of electricity that can be used by the property.

- Conversion of the heating system at Inverbrothock Primary School from oil to gas.
- Provision of a micro water turbine at Cortachy Primary School or Glenisla Primary School to enable the generation of electricity that can be used by the school and possibly the community.
- Conversion of the heating system at Tannadice Primary School from oil to wood chip.

Waste products from forestry activities can be used as a cheap source of fuel that is carbon neutral.

- Trial micro wind generators at Aberlemno and Tannadice Primary Schools.
- Undertake a short programme of draught proofing of various properties and providing a hot air curtain at one of them.
- Undertake a short programme of insulation improvements in various properties.
- Undertake a phased programme of council employee energy awareness training.

### **3 FINANCIAL IMPLICATIONS**

The full cost of these works has been estimated at £110,000 as detailed in Appendix 1.

The cost of carrying out these works cannot be contained within Property Maintenance Revenue budget for the respective departments and there are no provisions in the Capital Programme for 2004/05. It is necessary for supplementary funding to be made available from the Property Renewal and Repair Fund.

The works detailed in this report can be contained within the provisions of the Property Renewal and Repair fund for 2004/05.

### **4 HUMAN RIGHTS ACT IMPLICATIONS**

There are no Human Rights Act implications specific to this report.

Any implications, as a consequence of discharging recommendations detailed in this report, will be managed in accordance with the standing procedures and processes established by the Property Services department.

### **5 CONSULTATION**

The Chief Executive, the Director of Law & Administration and the Director of Finance have been consulted in the preparation of this report.

## REFERENCES

<u>Committee</u>	<u>Date</u>	<u>Report No</u>	<u>Subject</u>
Personnel and Property Services	11 March 2003	327/03	PROPERTY RENEWAL AND REPAIR FUND PROGRAMME 2003/04
Resources and Central Services Committee	19 June 2003	742/03	REVIEW OF THE ENERGY MANAGEMENT UNIT

## APPENDICES

Appendix 1      2004/05 Energy Spend To Save Programme

## BACKGROUND PAPERS

No background papers, as defined by Section 50D of the Local Government (Scotland) Act 1973 (other than any containing confidential or exempt information), were relied on to any material extent in preparing the above report.

M G Lunny  
Director of Property Services

## Appendix 1 2004/05 Energy Spend to Save Programme

Property	Description	% Energy Savings	Cost Savings p/a	kgCO2 Savings p/a	Project Cost	Payback
Camus House, Carnoustie	Install Micro CHP and BMS	15%	£2,000	52,000	£11,200	5 years
Inverbrothock PS , Arbroath	Conversion from oil to gas heating	27%	£1,994	27,931	£11,200	8 years
Cortachy PS or Glenisla PS	Install micro hydro scheme				£22,000	15 years Subject to feasibility study
Tannadice PS	Conversion from oil to biomass heating	0%	£2,000	112,000	£22,000	10 years
Aberlemno PS	Install "WindSave" micro wind generator	17%	£200	1,362	£1,700	5 years
Tannadice PS	Install "WindSave" micro wind generator	5%	£200	1,362	£1,700	5 years
Warddykes PS, Arbroath	Draughtproofing to outer doors				£250	3 years
Newtyle PS	Draughtproofing to outer doors				£250	3 years
Andover PS, Brechin	Draughtproofing to outer doors				£250	3 years
Montrose Academy	Draughtproofing to outer doors				£250	3 years
Kirriemuir Town Hall&Library	Draughtproofing main external doors				£250	3 years
Lochlands Resource Centre, Arbroath	Draughtproofing main external doors				£250	3 years
Gateway to the Glens Museum, Kirriemuir	Draughtproofing to outer doors				£250	3 years
Town House, Montrose	Draughtproofing to outer doors				£250	3 years
Town House, Montrose	install hot air curtain at front entrance				£1,100	3 years
Brechin HS Sports Centre	Fit valve insulation jackets				£1,100	3 years
The Cross, Chief Execs, Forfar	Install loft insulation 300mm	15%	£1,044	18,331	£3,000	3 years
St Drostan's RHOP, Brechin	Install loft insulation 300mm	15%	£1,540	22,870	£10,200	3 years
The Gables RHOP, Forfar	Install loft insulation 300mm	15%	£2,085	36,587	£2,700	3 years
Invertay House, Monifieth	Install loft insulation 300mm	15%	£901	13,377	£10,100	3 years
Hayshead PS, Arbroath	Install loft insulation 300mm	15%	£1,781	26,442	£10,000	3 years
Staff Training (Motivation/Awareness/Technical)					£1,100	
<b>Total</b>					<b>£110,000</b>	