

## Moray Steiner School Energy Efficiency Project

### Introduction

With charitable status since 1989, Moray Steiner School has been established for over twenty years and provides education to around one hundred pupils to the ethos defined by Austrian educationalist Rudolf Steiner. The school operates out of a substantial Victorian house close to Forres town centre, and is on the edge of Cluny Woods, set in its own grounds.

The building comprises of a well-used basement and two stories above. It is a mix of rubblestone and ashlar stonework with some harling. It has a roof pitch more typically Paladian, and no attic rooms. The building is single glazed and is in usable condition, but limited funds have been spent on its upkeep in recent years. This is a simple low-cost loft insulation project, comprising of a top-up of existing insulation with an additional layer of 200mm throughout the attics of the building. The existing insulation was patchy, variable in depth and struggled to retain heat in the upper rooms.



CARES grant for this project for this project was awarded on the basis that it is in daily use as a school, and is fully used throughout the cold winter period. The insulation will be most effective because there are no dormers or rooms in the roof. The building is used by children for whom a warmer learning environment will be beneficial. The building is currently heated by high carbon high cost means (mains electricity and oil).

### Equipment

#### Energy efficiency project incorporating loft insulation

Four businesses were invited to tender, of which two declined, one did not respond, and one made a site visit and a subsequent quote. The construction company who were contracted were known to have undertaken similar work elsewhere with satisfactory results; work which was considered to be good value for money. The company was also able to install and invoice within the short timescale available.

### Cost and Grant Funding

Total project cost	£3,015.60	The remaining funding was obtained through:  Own Funds £603.12
CARES grant	£2,412.48	
CARES grant percentage	80%	

This project has been funded by the Scottish Government's Community and Renewable Energy Scheme (CARES).

### Fuel Bill Savings

It is estimated that space heating costs at the school will reduce by between 5% and 10% as a result of this project. This equates to a cash saving on 2010 prices of between £500 and £1,000 per year, and a CO2 saving of between 2.2 and 4.4 tonnes.

### Emission Savings

Estimated kWh savings p.a.	4,803
Annual Co2 savings (kg)	2,209
Co2 savings over 20 yrs (kg)	44,180

### Project Monitoring

The insulation will not be obvious, however a hanging card acknowledging the project is on display, and the Trustees will assess any reduction in energy use / improvement in the learning environment as a result of the project.

### Local Impact

The school is part of the wider environmental and spiritual community which has grown around Forres and Findhorn. The curriculum provided is focussed on heart centred intelligence and a mix of academic, practical and artistic skills

This was a simple and low-tech project, however the insulation will lead to a more comfortable learning environment for the teachers and pupils, particularly during cold weather periods.



### For further information, contact:

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