

THE <<FEEDU>> PROJECT - TOOL N.

1. Name of the tool

School Energy Diary

2. Introduction

This resource is a spreadsheet designed to help schools monitor their energy consumption and involve their pupils in this process.

Spreadsheets are signposted with on screen characters that give instructions on how to use the sheet and it is set up to produce simple bar graphs and summaries of the information. Data about carbon emissions is also presented as facts about party balloons that could be filled and trees that would need to be planted to help pupils visualise the impact of the schools energy use.

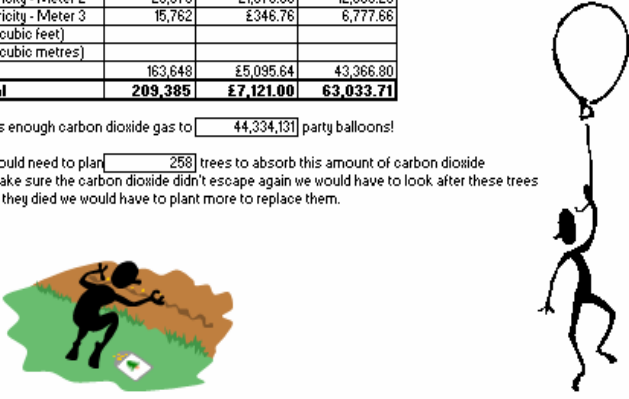
3. Experience with the Activity

2007	kWh	Cost	CO ₂ (Kg)
Electricity - Meter 1	0	£0.00	0.00
Electricity - Meter 2	29,975	£1,678.60	12,889.25
Electricity - Meter 3	15,762	£346.76	6,777.66
Gas (cubic feet)			
Gas (cubic metres)			
Oil	163,648	£5,095.64	43,366.80
Total	209,385	£7,121.00	63,033.71

That's enough carbon dioxide gas to party balloons!

We would need to plant trees to absorb this amount of carbon dioxide

To make sure the carbon dioxide didn't escape again we would have to look after these trees and if they died we would have to plant more to replace them.



This spreadsheet is currently being used in primary schools throughout Gloucestershire and we have received very positive feedback about how it integrates into the curriculum and its suitability for pupils of 9 years and older.

➤ **Concept**

This spreadsheet has been set up to enable children to participate in monitoring the schools energy consumption. Simply by entering meter readings into the tables on the sheet pupils can get information about the consumption, cost and carbon emissions of their school.

There is a lot of evidence to support the fact that monitoring and being aware of the rate of consumption significantly increases the chance of reduction in consumption.

➤ **Goal**

To introduce one very easy way to monitor the energy consumption of the school and also to provide a way of displaying the information to raise awareness around the school.

It is hoped that school building users will adopt energy efficient practices in an attempt to reduce their consumption. The spreadsheet calculates CO₂ and cost of consumption to illustrate the impact of the energy being used.

➤ **Material Needed**

CD Rom containing spreadsheet and user guides.

➤ **Procedure**

Identify groups of pupils to collect and enter meter readings and use spreadsheet results for dissemination and discussion around the school.

Guidelines for Teachers

It is important to set this challenge against a background of work in which pupils investigate how we use energy and the consequences and potential impact. They need to know why it is important to save energy and to make others do the same. It is useful to use this tool to monitor progress to reduction targets and also to print off and display information for the whole school to see.

The collection, entry and analysis of data integrates well with many curriculum subjects e.g. Numeracy, ICT, Geography.

The spreadsheet information can be used as a basis for reporting to school managers and governors and for implementing positive energy practices around the school.

Tool Rating (* = Ok *** = Excellent)**

We rate the School Energy Diary - *****
Simple, effective and informative

Contact

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