Red Hill Green School Folder

2017/18

Energy

(Increase Awareness of Energy Issues and to improve energy efficiency within the school)

1. GREEN SCHOOL COMMITTEE
2. ENVIRONMENTAL REVIEW
3. ACTION PLAN
4. MONITORING AND EVALUATION

Green School Committee 2017/18

Picture of our Green School Committee

ENVIRONMENTAL REVIEW

ACTION PLAN

**OUR ENERGY STATEMENT**

**Continuing to reduce our energy usage and become more efficient in our school.**

**– Minimizing the impact that our energy has on the environment.**

**– Communicate our energy statement and energy program to all our staff and pupils.**

CREATE POSTERS IN THE SCHOOL ABOUT ENERGY SAVING

We like being “switch-checkers”!

We save energy, we save money and we have fun

PC’s in classrooms

Put up notices of who last USES the computer each day, so teacher knows computers can be switched off.

Ensure

– Everyone knows where switches are

– Lights are off, when daylight levels are good

– Unoccupied areas are not lit

Projectors & Smart boards

Standby may not be enough. Switch off

Electrical Equipment

Use motion sensors to control toilet room lighting

Use motion sensors to control lighting elsewhere

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Children reflect on a question, discussing their ideas and experiences concerning the energy theme (Renewable Energy) being addressed.

Renewable Energy

Fossil fuels such as oil, petrol, gas and coal are becoming scarce and are non-renewable. Other sources of energy such as wind, water, solar and crops are now being used to satisfy the energy needs of the future. These are renewable and less damaging to the environment.

Before you start today we are going to look at fuel and energy. Some forms of fuel are renewable and some are non-renewable – what could that mean? Fossil Fuels or Non-Renewable Energy

 What is a fuel? Something that gives energy

 **Can you name any fuels?**

**How is the school heated?**

**How is your own house heated?**

**If you have a car at home, what fuel does it use?**

Are there other ways of producing energy?

Discussion about windmills: years ago, they were used mostly for grinding corn into flour and for pumping water. Now they are mainly used to produce electricity.

 **Do the children know any windmills or watermills?**

 **Have they seen any solar panels?**

Parking meters in cities and towns across Ireland work by solar panels. There are 2 kinds of solar panels:

1. Solar thermal panels collect heat from the sun and heats water (most commonly used in Ireland and grant aided by SEAI);

 2. photovoltaic or pv panels produce electricity when they are exposed to the light of the sun – the light which shines on the pv cells creates an electric field causing electricity to flow.

Discussion

without the sun which we could not survive because people and animals eat plants that get their energy from the sun. It also gives us heat and light**.**

**Did you know?**

 An offshore wind farm in Arklow produces electricity for up to 16,000 buildings.

Electric cars were popular in France and America about 100 years ago but petrol cars improved and were able to go faster and whenever you wanted. You had to wait about 10 hours for the batteries of an electric car to re-charge before you could go again!

But technology has improved and the electric car is making a comeback. SEAI’s “Wind to Wheels” project on the Aran Islands is testing electric cars being run on wind energy. The electric cars are charged using electricity which has been generated from the wind.

In ancient Egypt oil oozed out of the ground. They only started to drill holes when it stopped oozing out.

There is enough fuel in the tank of a jumbo jet to drive an average car around the world four times! Do you think there is any connection between air travel and global warming?

People used oil for 5000 years before the first oil-well was drilled in 1857 in America.

Ireland has one of the greatest sources of wave energy in the world. By 2020 SEAI plan to power a city twice the size of Cork using electricity from the Ocean. Belmullet, Co. Mayo was chosen to test Ocean Energy in Ireland.

Questionaire

How is Red Hill School heated?

Can we think of a better and more economical way of heating the school?

How often is the heat turned on in the school?

When is the heating turned on in the school?

How can we cut costs on our heating bill at Red Hill school?

MONITORING AND EVALUATION