

# Nature's Power

## Renewable Energy in Action



### Sources of Carbon

#### Aim of activity

To stimulate discussion about fuel sources, energy use & sustainability

#### Equipment needed (fuels can be replaced by images if necessary)

- Piece of coal
- Sod of turf
- Small block of wood
- Gas canister
- Small bottle of engine oil
- Age Cards: millions of years x 3, thousands decades



#### Instructions

Split group into 5 groups. Each group is given an example of one type of fuel and a laminated list of questions. They have a few minutes to look at each one and discuss the questions before they are passed on.

Questions: *Where does it come from?*  
*How is it produced?*  
*What steps need to happen before it can be used as a fuel?*  
*How old do you think it is?*  
*What happens when it is burned?*  
*Is it a good source of fuel?*

Each group is then given 5 blank coloured cards (a different colour for each group) and 5 age cards. The different fuels are placed in a row. The facilitator asks a list of questions and each time the groups must place a card or cards in front of the relevant fuel type. Each group agrees on an answer and nominates one person to place their card. Up to 5 cards can be placed each time.

Questions: *Which of these fuels have to be dug up from underground?*  
*Which of these fuels produces Carbon Dioxide when burned?*  
*Which ones are transported over long distances to get to Ireland?*  
*Which ones would you consider to be renewable?*  
*Which age cards fit by each fuel?*