

## THE <<FEEDU>> PROJECT - TOOL N. 12

### 1. Name of the tool

Climate Change Map

### 2. Introduction

This activity provides teachers with a very simple way of demonstrating to their class how energy use impacts on lives on a global scale.

### 3. Experience with the activity

#### ➤ **Concept**

The demonstrator uses an attractive map and eye catching illustrations to draw pupils into a variety of discussions about the responsibilities and consequences of energy use. A good introductory activity that will raise awareness of the general issues of our energy use.

#### ➤ **Goal**

To demonstrate how much energy is consumed across the globe.

To teach about some of the environmental problems which are associated with our energy use.

To bring about an understanding of the responsibility to use energy wisely.

#### ➤ **Needed Material**

Large map of the world (PVC best so that labels etc. maybe removed later)

White sticky labels with coloured dots on them prepared as follows:

1 pink-USA

1 purple- Australasia

2 red - representing Europe

3 orange - representing S. America

Lots of yellow - representing Africa

Give out even more green - representing Asia.

It is nice to give one to every pupil and this is easily achieved with extra green or yellow dots

Pictures of big and small footprints

Example pictures of effects of climate change such as snow, ice melting, deserts, flooding. (see 'Procedure' for more details)



### ➤ Procedure

Explain that the map represents our world and that the class represents all the children living in our world.

Ask each child to write their name on a white label and stick it on the continent that corresponds with the colour of the dot e.g. pink on USA, red on Europe etc.

They will see that more children live in the developing nations such as Asia and Africa than the developed nations such as USA and Europe.

Ask the children that represent those living in USA, Europe and Australasia to stand in front of the map.

Explain that children living in the developed world (like us) use lots of energy and because of the way we burn fossil fuels to produce this energy, we have a large footprint on the world.

The use of the image of our footprint on the world is becoming very popular as a means of enabling people to visualise their impact on the world. It is estimated that an average European sized footprint is 2-3 times bigger than it should be in terms of the earth's resources being shared out equally amongst its population. The American footprint is estimated at 4-5 times larger; if we all lived like this we would need 4 earths to support us!

Stick a large footprint on Europe, USA, and Australasia.

Children in Africa, Asia and S America use less energy so have a small footprint on the world.

Stick a small footprint on these lands.

Next, talk about the effects using this energy has on global climate, sticking on the example images of climate change as you discuss them. Here are some examples for the images supplied:

- Flood, UK - damaging buildings, homes and lives
- Desert, Africa - related problems of famine, disease and water shortages
- Bug, Northern Europe - warmer temperatures have encouraged bugs from warmer climates, even in the U.K. we now have certain types of Scorpions living in parts of Kent!
- Wind, North America - changes in weather patterns have caused more frequent and stronger winds that cause damage in N. America.
- Storm, Europe - Likewise in Europe we see more frequent and violent storms
- Hot man, Australia - In places that have always had high average temperatures further increases are having alarming effects .e.g. bush fires
- Rain, South America - Heavier and more frequent rain storms exacerbate soil erosion problems making it harder for things to grow and damaging structures.
- Snow, China - snow in parts of China that have never seen snow before leading to death and destruction, particularly of plants and animals.
- Wave, India - We have seen recent examples of the devastating effects of violent sea storms.

- Ice - Alaska - Global warming is blamed for Alaska's glaciers melting at more than twice the rate of half a century ago.

➤ **Conclusions**

The pupils can see the variation in energy use across the globe and can begin to understand how the actions of people living in our own country and the rest of the developed world are having some serious consequences.

➤ **Guidelines for teachers**

There are many benefits to this activity:

- Involves every child in the class
- Simple to use
- Raises interesting discussion points / common misconceptions: - *Spread of population across globe ( many children imagine Africa as vast and empty and are surprised to find it has such a big population in comparison to other areas.*  
- *Issues of justice and fairness - how the rate of consumption in developed world affects those in developing etc.*  
- *How greater energy use relates to a better standard of living etc.*

A useful and quick reference for some of the concepts/discussion points behind this activity is FEEDU Tool N.09, in particular Chapter 2.

➤ **How the tool was judged**

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➤ **Contact**

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**Further info in the Tool Technical Fiche in .pdf format**