

## Energy & Climate Education in Schools

West Wales Eco Centre  
INFORSE Sustainable Energy Seminar  
Romania, September 2005



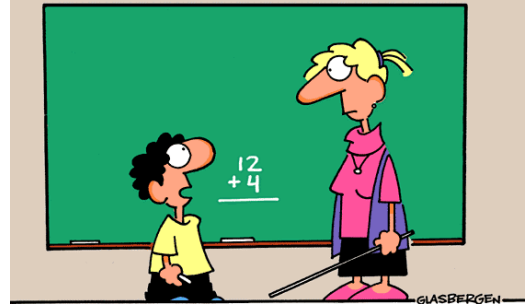
- Is education leading us to sustainability?

### Realities

- Reproducing an unsustainable world
- Need to change education system and practice

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"Do I get partial credit for simply having the courage to get out of bed and face the world again today?"

## The route to education for sustainable development (ESD)

- Stockholm conference - 1972
- Our Common Future – 1987
- Rio 1992
- Johannesburg 2002
- UN decade of ESD, 2005 – 2014

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- Over 70% of UK households never examined ways to save energy (EST)
- The amount of energy we use for transport and in our homes has increased dramatically since 1980, from 18% to 35% and 40% to 49% respectively (Environment Agency)
- 13% of Brits surveyed left the television on standby for the duration of their holiday, costing a collective £250,000 in wasted energy. (EST)

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For every £1 saved on fuel bills, energy consumption is reduced by about 34kWh and CO<sub>2</sub> emissions by around 8.5 kgs of CO<sub>2</sub>.

Energy Efficiency Partnership for Homes - important influence of verbal advice

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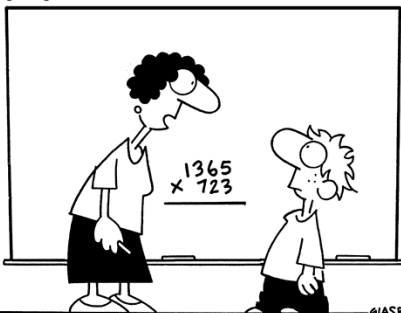
## Key concepts of ESD

- Interdependence
- Citizenship and stewardship
- Needs and rights of future generations
- Diversity
- Quality of life
- Sustainable change
- Uncertainty and precaution

Energy use has an impact on all the key concepts

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"Pretend you're starring in a reality show about a kid who can make his dreams come true if he works hard and gets good grades."

Participants for 2004 pilot included:

- Polish Ecological Club Upper Silesian Branch (teacher training)
- Norges Naturvernforbund /SPARE project, Norway
- MEERA, Malta
- Prietenii Pamantului (Earth Friends) Romania
- OVE, Organisation for Renewable Energy, Denmark
- West Wales ECO Centre

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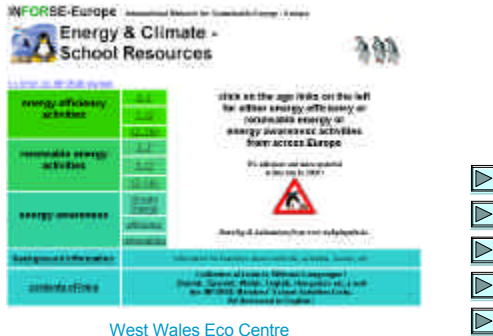
## Aim of the project

- To collate a central resource of environmental educational material on climate and energy.
- To exchange experience and environmental education resources, addressing the cross-cultural barriers of doing this.
- To further develop relevant environmental education material for use in different school systems, budgets and curricula.

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## Changes for 2005

- game - internet or board
- study material/theory
- practical experiments (e.g. make a wind turbine)
- project/activity (successes in school)



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## Education and energy, UK

- The Centre for Research, Education and Training in Energy (CREATE)
- Centre for Sustainable Energy
- Centre for Alternative Technology
- Alternative Technology Centre
- The National Energy Foundation

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## Projects

### Solar Schools Forum



#### Solar Schools Forum

The original Sustainable Environmental Education in Schools (SEE) project, which was the first of its kind in the UK, was a project to promote energy efficiency (EE) in schools. The project was a joint venture between the INFORSE-Europe project and the UK's National Energy Foundation (NEF). The project was a joint venture between the INFORSE-Europe project and the UK's National Energy Foundation (NEF). The project was a joint venture between the INFORSE-Europe project and the UK's National Energy Foundation (NEF).

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#### Objectives

1. To raise awareness among the public, the media and the public about the importance of energy efficiency, energy saving, and environmental protection in schools and to promote energy efficiency in schools.
2. To provide a network of schools and colleges across the UK to share information and resources on energy efficiency and environmental protection in schools and to promote energy efficiency in schools.
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## Towards a sustainable society

- Education not just about knowledge
- Values and attitudes (self and society)
- Visible in (school) culture

## Education workshop

Aim to identify:

- effective ways to engage people in environmental issues
- effective ways to get messages to decision makers and practitioners
- innovative examples of best practice across Europe