

**Schools at
university**



Klima x Energie

SAUCE Schools at University for Climate and Energy

Reform Group Meeting – Green New Deal

Schloss Leopoldskron, Salzburg

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Content

- What is schools@university for climate and energy?
- The European project
- Why SAUCE? Project aims and target groups
- Programmes 2009
concept, structure, core topics, educational approach
- Local networking
- International networking (concept and implementation)

What is SAUCE?

Schools@University for Climate and Energy

From *kid's university* to *schools@university*

- University of Tübingen (2002): first scientific lectures for children, today offered throughout Europe
- SAUCE Pilot at Freie Universität Berlin in 2006

Characteristics:

- Addressed to school classes
- Thematic focus on energy efficiency, renewable energy and climate change

The European project

Intelligent Energy Europe

SAUCE - Schools at university for climate and energy

Project duration: 1 September 2008 – 31 August 2011

EU-programme Intelligent Energy Europe:

- Education projects may apply for support from integrated initiative “education for intelligent energy behaviour”
- targets:
 - energy security
 - innovation and competitiveness
 - climate protection and energy efficiency

Partners



Coordinator: Freie Universität Berlin,
Environmental Policy Research Centre (FFU)
(Germany)

Vienna University of Technology, Institute of Power
Systems and Energy Economics, Energy Economics
Group (Austria)

Aalborg University, Department of Development and
Planning (Denmark)

Roskilde University, Department for Environmental,
Social and Spatial Change (Denmark)

Berlin Energy Agency (Germany)

University of Latvia, Department of Environmental
Management (Latvia)

University of Twente, Centre for Clean Technology &
Environmental Policy (The Netherlands)

London Metropolitan University, Department of
Applied Social Sciences (United Kingdom)

www.schools-at-university.eu

Why SAUCE?

Many European curricula address the topics of sustainable energy use and climate change. But usually the focus is on technical rather than behavioural aspects.



SAUCE programmes will focus on behavioural aspects by bringing energy use into direct relation to the pupils' everyday lives and lifestyles – so that complex issues are also made tangible.

The complexity of the topics requires teachers to go beyond their subjects and their professional routines and invest in additional preparation.



The SAUCE programme is a low-barrier tool that relieves the teachers' workload. It reaches out to teachers and addresses them individually.

Surveys show that pupils learn well in unusual locations that are not tied into their daily routines, and when they participate actively in arriving at solutions and answers.



The university campus and lecture hall is an exciting new learning environment for pupils – perfect for testing interactive and interdisciplinary teaching tools covering the critically important subject of energy-efficient behaviour.

→ **SAUCE supports and aims to improve formal (and informal) energy education.**

→ **SAUCE will make the educational resources of universities available to schools and the local community.**

Project aims

The project partners will

- **develop** the SAUCE programme as an interactive, interdisciplinary educational tool to be offered to elementary and secondary schools by European universities on a regular basis
- **strengthen** the network of energy education actors engaging in formal and non-formal education at the local, national and international levels
- **support** the dissemination of successful and effective energy education tools and projects to schools and their adoption by teachers
- **disseminate** the SAUCE programme to European universities



Expected results

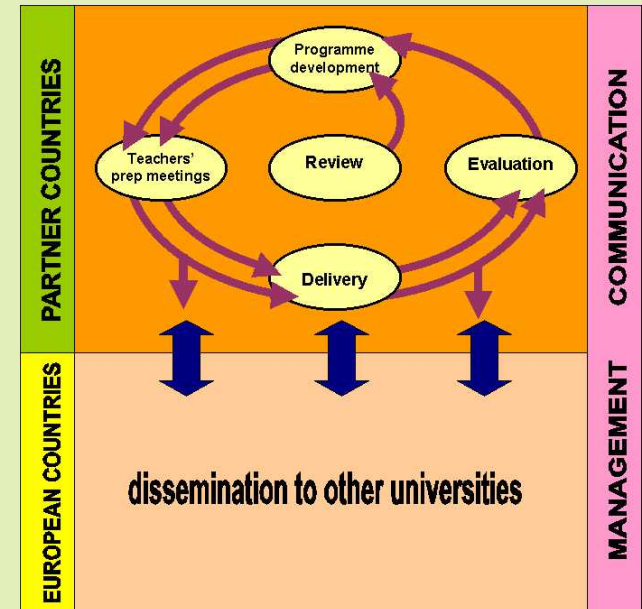
The SAUCE programme is expected to:

- **raise** children's awareness of intelligent energy and mobility behaviour
- **establish** universities as educators for sustainable behaviour / visible in the local community and make their resources available to schools and teachers
- **increase** use of successful and effective energy education tools throughout the project's member countries and among other European member states
- **raise** pupils' interest in green sciences and green technologies.



Project structure

- The partners' cooperation in **programme development** allows for synergies and opportunities for international exchange of pupils
- **Teachers' preparatory meetings** will inform about the programme, disseminate energy education materials and project ideas and facilitate networking
- Careful programme **evaluation** will support continued improvement of the programme
- Production of an *organisers' handbook* and an *international conference* will enhance **adoption by other universities**
- A *reader* for children will compile the best presentations





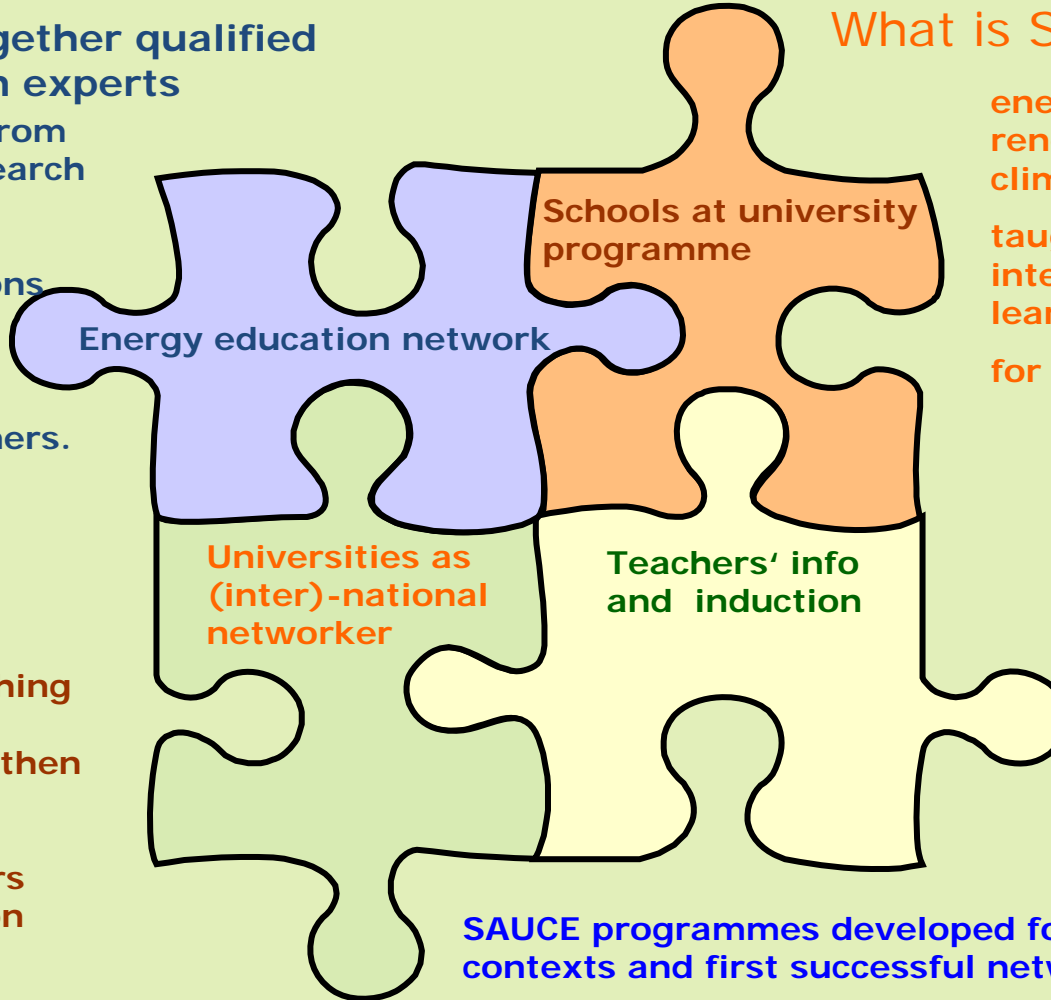
SAUCE project summary

SAUCE brings together qualified energy education experts

- : academic experts from universities and research institutes.
- : partner organisations from the public and voluntary sectors.
- : artists and performers.
- : school teachers.

Opportunities:

- : to improve the curriculum and teaching in energy education.
- : to build and strengthen the local and international network of researchers, teachers and energy education experts.



What is SAUCE about?

- energy efficiency
- renewable energies
- climate change
- taught in an exciting interdisciplinary learning environment
- for pupils aged 10-13

for teachers

- : easily accessible opportunities to cover energy issues in class
- : provides project ideas and teaching materials

Achievements

SAUCE programmes developed for different national contexts and first successful networking.

Schools' energy saving project as SAUCE spin off.

Programme content

- *Climate change* (causes, effects, mitigation, adaptation)
- *Energy resources* (fossil and renewable energy sources, energy generation technology)
- *Individual energy behaviour and energy efficiency* (mobility, lifestyles and consumption, food miles, carbon budgets)
- *Energy and climate change policy* (international negotiations and agreements, global justice, local governments as energy policy actors, participation)

Programme: teaching approach

- *Participation*: directly involve children and relate subjects to their daily life (experiments, interaction, dialogue, political or social activities)
- *Fascination and fun*: use arts and media to bring issue across (theater, film, arts, music)
- *Communication*: engage and exchange with other pupils and schools and local politicians (children teaching children, national and international exchange across cultures, international educational handshake)
- *Open campus*: university and research centres as new, exciting learning environment (guided tours, laboratories and lecture halls as class room, presentation of student life)



Some impressions of 2009



Participatory lectures, workshops, experiments, games, campus



Opportunities of SAUCE

New role of universities:

- outreach
- school children as target group
- advanced training for teachers
- social/political engagement
- sharing experience across countries
- networking with other educational institutions / initiatives, local and international