

# Energy consumption – What can we do?

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**Subject:** Natural Sciences.

**Country of creation:** Portugal.

**Countries of testing:** Spain.



## Aims of the GP

- Enhance decision-making skills.
- Develop students' environmental awareness and citizenship.
- Connect Energy and Natural resources.
- Internalize the change of attitude towards these issues.
- Identify solutions in order to reduce energy consumption.

## Teaching material

- Computer with Internet connection.
- Digital camera.
- Spreadsheets.
- Electricity bills of the school.

## Age of the students:

12-15

## Preparation and teaching time

Class time: 2 x 90 min periods.

## Lesson plan

Activity	Procedure	Time
In class	Observation and discussion of the video: "Energy! Let's save it" <a href="http://ec.europa.eu/environment/climat/campaign/resources/article_7360_en.htm">http://ec.europa.eu/environment/climat/campaign/resources/article_7360_en.htm</a>	25 min
In class	Start with the main question - "Energy Consumption - what can we do?" Identify equipment in the school with high energy consumption and <b>find solutions</b> in order to reduce the energy consumption.	35 min



I can change my behaviour/attitude in order to reduce the levels of energy consumption at school and in my home.

Yes / No

### Teacher reviews

This GP has proven to be an effective way of internalising the change of attitude of students concerning energy consumption as, after the activities developed at school, most students also started taking measures to reduce energy consumption in their homes.

The teachers implementing this GP mentioned that they liked it due to its efficiency in addressing this important issue and the combination of motivational exercises that were used, such as designing posters in groups, watching an inspirational video, being aware of the schools' expenses by seeing historic as well as the new energy bills.

### The SPICE the project

SPICE was a two-year project (December 2009 – November 2011) carried out by **European Schoolnet** (<http://europeanschoolnet.org>) together with **Direção Geral de Inovação e Desenvolvimento Curricular** (<http://sitio.dgicd.min-edu.pt/Paginas/default.aspx>) from Portugal and **Dum Zahranicnich Sluzeb MSMT** (<http://www.dzs.cz/>) from the Czech Republic.

The primary objective of the SPICE project was to collect, analyse, validate and share innovative pedagogical practices, particularly those using inquiry-based learning, whilst enhancing pupils' interest in the sciences. SPICE supported this objective by singling out, analysing and validating good practice pedagogies and practices in maths, science and technology (mostly ICT-based) and disseminating them across Europe. SPICE involved 24 teachers from 16 different educational systems (from 15 different countries). This teachers' panel helped the SPICE partners in defining good practices that were then tested in classes by almost 41 teachers during the school year 2010-2011.

For more information see: <http://spice.eun.org>



Lifelong Learning Programme



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