



Solar energy and sustainable development

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At the dawn of the 21st century, the world population doesn't stop rising. More than ever, energy and environment problems remain at the heart of our society concerns. What will we leave to the future generations ?

Therefore, a twenty pupil class of 4e (13 and 14 year old pupils) has made a specific work about this topic, called "solar power and sustainable development".

Initially, the pupils participated to the settlement of a meteorological station on the school grounds. This station, which provides readings about temperature, relative humidity, rainfall, sun radiations, wind power and wind heading is fed by photovoltaic cells and thus works independently. The pupils have then come to realize the ecological and practical interests of such a functioning (e.g. : for the latter : neither batteries nor electrical wires are needed).

These past few years, in Provence (a highly sunny region), many solar panel installations have been created and many private house roofs have been equipped with photovoltaic cells. Indeed, this energy presents some significant assets : it is free, clean and will never run out.

The village of Vinon sur Verdon, where stands our college, is partly fed by a solar panel park, located a few kilometers away. Strongly sensitive to the assets of this energy source, the pupils have made a poster asserting the benefits of solar power.

Another side of solar energy has been asserted : the output of hot sanitary water. They have built a miniature on this topic.

In order to be thorough, some elements remain in shadow, such as environment impacts done by the making, the transport and the recycling of solar panels that will be brought up in a collaboration with research establishments.