



Schools equipped with photovoltaic solar panels - Pamplona, Spain	
<b>Keywords</b>	<b>PV Panels, Renewable Electricity Generation, Education Campaign</b>
<b>Pictures</b>	 
<b>Objectives</b>	To install solar PV panels in every school in Pamplona for both educational purposes and in order to reduce net CO <sub>2</sub> emissions from the schools
<b>Description</b>	<p>In 2001, Pamplona City Council, through its Energy Agency, began the 'Net of Photovoltaic Schools' project. The aim of the project is to install solar photovoltaic (PV) panels on the roofs of schools throughout Pamplona, for both educational purposes and to avoid CO<sub>2</sub> emissions. Interactive displays linked to the panels provide an excellent educational tool by enabling children to see the energy production of the panel in real time, as well as information such as the total CO<sub>2</sub> emissions avoided.</p> <p>In addition, the Energy Agency of Pamplona is developing an educational campaign for the schools with a variety of activities aimed at raising awareness of climate change and renewable energy among students, teachers and staff. The project also aims to promote renewable energy technologies to the local community.</p>
<b>Results / Achievements</b>	<p>All of the solar PV panels are connected to the public electricity grid, and the energy produced is sold to the distributors. The solar PV systems do not help the schools reduce their energy consumption, but in net terms reduce their CO<sub>2</sub> emissions. From 2004 to 2006 the panels have produced 63,473 kWh in total, which equates to 21,158 kWh each year. This figure is growing each year as more panels are installed. Approximately 71 tonnes of CO<sub>2</sub> emissions have been avoided in three years. The total money saved in this three-year period is €26,000 (€0.41/kWh). This is almost 10% of the total cost of the project. The 'Net of Photovoltaic Schools' project is helping children, teachers and staff to learn about renewable energy and climate change.</p>
<b>Online information</b>	<a href="http://www.display-campaign.org/rubrique651.html">http://www.display-campaign.org/rubrique651.html</a>
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