

CSEP PROJECT CASE STUDY No.8
Centre of Pendeen



Solar PV at the Centre of Pendeen



Fitting of solar PV on the roof of the centre

CEP Lead officer and team	Alec Rice and Dionne Jones
Location of project	Centre of Pendeen, Penzance, TR19 7DU. Grid Reference: S382 W343
Project Stages	Conception of the idea: Pendeen Village Hall Community Event 11 May 2002. Feb 2005: Planning permission and funding confirmed. 24 Sept 2005: Launch event.
Project description	Ground Source Heat Pump (GSHP) and Solar PV and grey water harvesting in a Community Building. The Solar PV panels are building integrated: 4.32kWp solar array, 9 by 6 module arrangement. 4 x SMA Inverters. Estimated performance is 7.736MWh/yr. Western Power Distribution fitted a 3phase export meter.
Partners	Lead Partner Pendeen Parish Members Institute Consultations CEP(Community Consultation), CSEP (Funding and award nomination), Penwith District Council and Cornwall AONB team Funding DTI, EST, EDF Energy and Clear Skies Technical Architect - Nicholas Clift & Associates PV Installer - Beco Solar GSHP installer - Eco Heat Pumps
Value of project / Funding & Grants received:	The Solar PV array and ground source heat pumps were funded by DTI/EST, EDF Energy and Clear Skies DTI Energy Saving Trust: £40,867 EDF Energy £35,926 Clear Skies: £8,681 Total cost: £85,474

Measurable Outcomes	Carbon savings, especially from the Heat pump 7.2 tco ₂ /pa.
Wider Benefits of the scheme: (social, environmental, economic)	<ul style="list-style-type: none"> • It will host a wide range of services to help increase skills. • Improve employment prospects, and will be a real focal point for the village • The project won the 2005 South West Green Energy Awards (Community category) • With its photovoltaic roof panels and ground source heat pump the Centre has all the very latest energy efficient technology in place, ensuring its sustainability and meaning that any surplus electricity generated can be sold back to the grid. • The Project was assisted in its applications for this technology by Community Energy Plus who provided help and guidance.
Issues encountered	Attaining planning for the project: The project was assisted in its planning application by CEP. Penwith District Council was forward thinking in granting the permission with no restrictions in a conservation area.
Key Lessons:	<ul style="list-style-type: none"> • Community Energy Plus have been supporting the Centre of Pendeen in their applications for planning and funding. • The members of Pendeen parish's plans for photovoltaic panels received over 130 signatures of support from local residents, a letter of support from the Area of Outstanding Natural Beauty team, active letters of support from Community council and local MP. The point here is community support to the towards the project.
Further information	<p>CEP: Alec Rice, 01209 614971, alec@cep.org.uk.</p> <p>Tracy Waters, Centre Manager, 01736 786776, tracy.waters2@tesco.net.</p>

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