

Photovoltaic (PV) – Limavady Council Offices

Limavady Borough Council

Background:

Limavady Council buildings provide a central focus to the activities of the Council within the local area. The Council was established in 1973 and since then has provided support to the local community, acting directly to represent the interests and advocating the needs of the people of the Borough.

The Borough of Limavady has a population of over 32,000 with 55% of the population under 35 and 63% living in a rural area.

The System

The PV's comprise 26 x Sanyo modules and have been completed with 190 modules.

The total peak output of the PV's is 4.94 kW and the estimated total power produced annually is 4,450 kWhrs. This would typically provide power for;

- 167,000 slices of toast
- 243,000 cups of tea
- Total power for 1.5 three bed houses
- Lighting for 7.5 three bed houses
- Save 1912 kg of CO2 emissions



How does it work?

The word photovoltaic means electricity from light. A PV cell is a small energy conversion system that converts the sun's energy directly into electricity.

This is achieved by making use of the properties of semi-conducting materials, such as silicon, which release electrons when they are exposed to light. When daylight strikes the specially designed PV cell, it creates an electric field across two or more layers of silicon, and generates an electric current.

Cost:

The Energy Saving Trust contribute 50%* of the costs; NIE contribute a further 25%* leaving local authorities to pay approximately £7,500 for the high efficiency Sanyo system that has a 25-year guarantee. This is a unique PV offer for local councils enabling benefits of both bulk discount and a 75%* grant (from NIE and EST).

*Based on the current maximum contribution per kWp.

Useful contacts:

www.niesmart.co.uk
www.actionrenewables.org
www.solarcentury.co.uk
www.est.co.uk

Supported by:

