

Photovoltaic (PV) – Dungannon Park

Dungannon and South Tyrone Borough Council

Background:

Dungannon Park is a seventy-acre oasis centred round an idyllic Stillwater lake. The magnificent scenery invites the spending of your leisure time, whether you're a resident of South Tyrone, or a visitor from anywhere in the world.

The park offers an excellent range of facilities incorporating a game water fly fishery, tennis courts, football and cricket pitches, a children's play area and barbeque site whilst walkers can enjoy the miles of interesting pathways that define the parkland. From high ground these pathways have splendid viewpoints of Dungannon Town and the surrounding countryside.

The modern visitor amenity caters for an extensive range of needs with splendid sanitary facilities (disabled included), television lounge, laundry and kitchen facilities and reception area. A warm welcome awaits you at Dungannon Park with friendly staff at your service to ensure your visit is a pleasant one.

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 1.9 tonnes 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 will contribute 50%* of the costs; NIE will contribute up to 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

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