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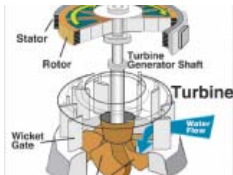
Hydro Power Installers

Hydro power plant

In the past it was absolutely crucial that the water source driving a hydro power installation had a good head of water (height & fall) and a good flow rate along with several other values to even be considered in terms of a hydro installation feasibility study. Modern technologies can now overcome some of these hydro installation issues but each site must be surveyed individually and assessed for economic viability as well as the installation feasibility.

Production benefits

Hydro power produces free renewable electricity: You can use all of the produced renewable electricity free of charge, this dramatically reduces your energy costs as well as your carbon footprint. FIT: Feed in tariff means guaranteed payments from the government for 20 years, every quarter you will receive hard cash in your bank account for every kWh of hydro renewable electricity your hydro power installation has produced. Exportation: Any surplus renewable electricity produced by your hydro power installation is automatically fed to the national electricity grid through your existing wiring system, you will also be paid for this.



Community benefits of hydro power

A communal hydro power installation could reduce resident's energy costs and generate an income through the Feed-in Tariff. A hydro power installation can aid in the irrigation of nearby agricultural land and can act as a flood management mechanism, it can reduce the risk of communities flooding downstream from the plant by controlling the flow of the river and suppressing river surges. Hydro power schemes can be more predictable than other forms of renewable energy and the power produced by hydro power broadly correlates with a community's energy demand. For example the potential power output is greater in winter when the energy demands are also greater. A hydro power scheme also has a much longer lifespan than other renewable energy sources so it should continue to produce free renewable electricity without the risk of partial reinvestment. A small scale hydro power could contribute to a decentralised energy network and potentially offer additional leisure and recreational benefits for example, an area for sailing on a reservoir behind a dam.

Environmental benefits of hydro power

The produced renewable electricity supply does not directly produce CO2 emissions and releases negligible quantities of sulphur and nitrogen oxides which are a component of acid rain. It does not produce any particles of chemical compounds such as dioxins which are harmful to human health nor deplete a natural resource during its operation.

Guaranteed Government Payments

20 years of guaranteed payments make renewable energies a lucrative investment. Typically payback is completed in between 3 and 4 years depending on the technology and the site suitability.



Typical Payback Time

Biomass - 4 years
Solar P.V - 5 Years
Solar Hot Water - 4 Years
Heat Pump - 4 Years



Return On Investment

Return on investment for a 130kW Biomass boiler will total £658,305
Return on investment for a 30kW Solar P.V system will total £211,636

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