

Micro-hydro schemes produce power from streams and small rivers. The power can be used to generate electricity, or to drive machinery. Under the Governments Microgeneration Scheme from April 2014 the rate paid for a unit of electricity generated by Micro Hydro Scheme is as shown :

Output

Annual mean flow rate	32 litres per second.
Maximum abstraction	46 litres per second
SEPA required compensation slow	7 litres per second
Pond capacity	750 m3 [800m2 / catchment 1.71km2]
Average time to fill dam	10.7 hours
Average time to drain dam	7.9 hours
Head	48 m
Energy output (estimated)	47,000 kWh per annum

Payback

Generation Feed-in Tariff	22.23p/kWh
Export Tariff	4.5p/kWh = £1485
Av cost of power	13p/kwh
Replacement saving	8.5p/kwh x 14000 units £1232.50
Total FIT income	£1,448
Export income	£1485
Replacement Saving	£1232.50
Total income	£13,165.50 per year TAX free

Figures correct June 2014

Hydro Case Study

15 kW Hydro The Scottish Borders



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advice, architecture, installation

Ecofitter provide a full range of architectural services and practical installation skills including MCS compliance in all technologies and are a Green Deal organisation. We provide a one-stop shop in identifying our clients' renewable energy opportunities, from the assets on their farm or small estate, navigating the treacherous roads of planning and SEPA consents to install cash generative and appropriate installations, as well as planning consents on sustainable housing and holiday schemes.

We were finalists in the best Micro Business Category for the 2013 VIBES Awards in December last year for our research projects and client work. We hope to win this year in the Small to Medium sized Business Category.

Ecofitter is best described as an eco-consultancy, although it provides a whole range of services related to improving the quality and energy performance of buildings. It has a long history in property development which goes back to the 1990s and has dealt with clean energy since 2003. Extensive experience in keeping the world turning and guarantees on all work done mean there's no better company to turn to than Ecofitter, which can claim with some justification to be unique.

We believe that renewable energy is for anyone and everyone, so whether domestic or commercial, urban or rural, it will design and install the perfect green energy upgrade for each customer. It can help choose the right solution for a budget across a wide range of requirements from making a single installation or helping construct a whole new property.

Its clean energy installations are environmentally-friendly and sustainable with the added benefit of looking after your bank account as well as looking after the planet. Furthermore, your new equipment will be easy to use, understand and manage, ensuring you'll be free to safely generate green energy for decades to come.

**Renewables,
Planning,
Project Management,
Installation.**

Qualified Chartered Eco Building Consultants / Designers who supply and install a range of renewable and low carbon products.

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**Domestic or commercial, rural or urban, new build, conversion or retrofit
– contact Ecofitter first.**



The Certification Mark for Onsite Sustainable Energy Technologies



SAP assessors and Green Deal compliant.