



CASE STUDY: Nant yr Arian visitor centre

Forest Enterprise (Ceredigion – Wales)

Rainwater harvesting system

- 10,000 L GRP tank
- Wisy WFF150 vortex filter
- Single pump Multigo 40/06
- Expansion vessel

Design data

Usage: WCs + urinals

Occupancy: 200 visitors /day

Architects: Rubyshine



Design data

Estimated usage: 1050 litres/day

Average annual rainfall: 1051 mm

Roof area: 266m²

Expected annual rainwater collection: 189 m³

Estimated percentage of demand met by rainwater system: 49%

Capital cost: £ 3,700

Estimated payback time: 8.3 years
(Based on Dwr Cymru Welsh Water tariff: 236p/m³)

Completion: summer 2003

Operating Statistic:

Rain water collection and usage

Meters installed

Monitoring on-going



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