


TV08 Brill School solar PV, wind, solar thermal & GSHP	Installation details
	<p>Owner: Brill CE Combined School Site address: The Firs Brill Buckinghamshire HP18 9RY Grid reference: SP658139 Local authority: Bucks CC / Aylesbury Vale DC Renewable energy category: Solar PV + Wind + Other thermal (solar) + Other thermal (GSHP) Status: Operational Date: 1999 + August 2004 + January 2004</p>
Technical information	Socio-economic & environmental data
<p>Technology type: Solar PV panel + 9m wind turbine + 18 m2 solar heating + ground source heat pump/underfloor heat Manufacturer / Installer: BP / PV Systems + Proven/Proven + Riomay / Riomay + -/- www.pvsystems.com www.provenenergy.co.uk Energy input: GSHP: electricity from grid Consumption rate: 4 MWh/year Installed capacity: Electric: 1 + 6 kW_e Heat: 13 + 5 kW_{th} Annual energy output: Electric: 0.5 + 4 MWh/year Heat : 13 + 12 MWh/year Supplying energy to: Electric: School; surplus to grid Heat : Pool & kitchens + classroom</p>	<p>Main drivers: Environmental education for children/community, financial benefits Social benefits: Education & community awareness Jobs created/sustained Directly: - Indirectly: - New business startups: - Financial benefits: £1,000/year Capital cost inc grant amount + giver): £18,367 wind (Clear Skies £8820, Bucks CC £3850, CRI £2000) + PV (100% BP Scolar) + Solar thermal - £12,825 (£6410 Clear Skies, £3206 Bucks CC) + Likely fossil fuel alternative: Electricity from grid, heating oil Greenhouse gas emissions displaced: 0.2 + 1.7+ 4.3 + 0.2 tonnes CO₂/year Equivalent no.of homes supplied: Electricity: 0.9 Heat : 1.4</p>