


TV85 NEF PV, micro-wind, biomass, GSHP & solar thermal	Installation details
	<p>Owner: National Energy Foundation</p> <p>Site address: Davy Avenue Knowhill Milton Keynes MK5 8NG</p> <p>Grid reference: SP848367</p> <p>Local authority: Milton Keynes Council</p> <p>Renewable energy category: Solar PV + Onshore wind + Biomass + Other thermal (GSHP) + Other thermal (solar)</p> <p>Status: Operational</p> <p>Date: February 2004</p>
Technical information	Socio-economic & environmental data
<p>Technology type: Solar photovoltaics + windcharger + EF5 pellet stove + ground source heat pump + 2sqm evacuated tube solar thermal</p> <p>Manufacturer / Installer: / + / + Enviro/Culworth Forge + Viessmann/Geoscience + Thermomax/Schüco</p> <p>Energy input: Wood pellets</p> <p>Consumption rate: Stove: fuel-ready tonnes/year GSHP: 7 MWh/year</p> <p>Installed capacity: Electric: 6.5 + 0.8 kWe Heat: 13 + 8.6 + 3 kWth</p> <p>Annual energy output: Electric: 3.4 + 0.2 MWh/year Heat: 11 + 23 + 3 MWh/year</p> <p>Supplying energy to: Electric: Heat pump & office PCs Heat: Hot water for kitchens</p>	<p>Main drivers: Reduce carbon footprint of the building, reduce greenhouse gases and fuel bills</p> <p>Social benefits: Promotion of renewables to the local community</p> <p>Jobs created/sustained: Directly: - Indirectly: -</p> <p>New business startups: -</p> <p>Financial benefits: £ /year</p> <p>Capital cost (inc grant funding + body): £23,500 (£12,000 Clear Skies) for PV</p> <p>Likely fossil fuel alternative: Electricity from grid</p> <p>Greenhouse gas emissions displaced: 1.5 + 0.1 + 4.5 + 6.6 + 1.4 tonnes CO₂/year</p> <p>Equivalent no. of homes supplied: Electricity: 0.7 + 0.05 Heat: 0.6 + 1.2 + 0.2</p>