Priors Hall Stage 1

Corby, Northamptonshire
Eight New Build plots set within a larger development.

Offering the homeowner zero energy bills through increased insulation and hybrid solar technology.

TECHNOLOGY:

Photovoltaic/Thermal hybrid modules (PV-T)

- 20 x PowerVolt

SYSTEM PEAK PERFORMANCE:

• Electrical	3.8 kWp
• Thermal	9.2 kWp

SYSTEM ANNUAL PERFORMANCE:

• Average Electrical	3246kWh
• Average Thermal	1850kWh
• Av displaced Co2	2044 Kg

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Convert Energy Ltd

System overview:

Heating & Hot water:

'Pre-Heat' enabled combination gas boiler and solar thermal.

Solar thermal providing a combination of direct hot water and pre heat to the gas boiler.

Designed to prove a point!

These eight homes were named the ZEB Homes (*zero energy bills*). They were designed and built under instruction by Electric Corby to prove that, for a minimal increase in build cost, a conventional 'new – build' could be adapted to provide its own power and reduce the environmental impact of building a new property.

To guarantee the new owner's zero energy bills, we designed a roof integrated hybrid PV-T modules were used to maximise energy generation from the typically limited and varied roof space of a large housing development.

Annual Electrical performance	-	3246 kWh
Annual Thermal Performance	-	1850 kWh
Annual Displaced Co2	-	2044 kg

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