CASE STUDY: PONTYPRIDD COTTAGE HOSPITAL

Three Dachs units were installed at the hospital. This diagram shows the resulting economics.

Heating and electricity supplied by gas boiler and grid							
Fuel supplied kW	Supply efficiency	Power used kWe	Heat generated kWe	Carbon intensity tonne CO ₂			
77778	90%		70000	15.09			
233333	90%		210000	45.27			
30800	100%	30800		17.49			
92400	100%	92400		52.48			
Costs		£9,240	£7,000				
Total costs		£16,240		130.33			

Heating and electricity supplied by three Dachs units						
Fuel supplied kW	Supply efficiency	Power used kWe	Heat generated kWe	Carbon intensity tonne CO ₂		
114545	88%	30800	70000	22.22		
343636	90%	92400	210000	66.67		
Costs						
Total costs		£10,309		88.89		

Energy savings: £5,931 pa; Emission savings: 41.4 TCO₂