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ATSPACE

DELIVERING BEYOND COMPLIANCE

1 Plot
Development

SAP Comprehensive Case Study



Call us today on 0800 917 8922
to speak with an adviser or visit
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Dwelling Details

1x Detached Dwelling

- 4 bedroom property
- Timber frame construction
- Brick façade
- Closed cell panels
- Electric heating
- Aim: to achieve an A Rating with a cost saving



Initial SAP Result

Client Specification

- EPC Rating 92 A
 - CO₂ Emissions – 1,614 kg/year
 - -69.13% Under Compliance
 - Dwelling Emissions Rate (DER) – 6.9 kgCO₂/m²/year
 - Dwelling Fabric Energy Efficiency (DFEE) – 52.1 kWh/m²/year
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Our Cost Saving Changes

What We Changed

- Changed the air source heat pump to an electric water storage boiler
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Proposed SAP Result

With Cost Saving Changes

- EPC Rating 92 A
- CO₂ Emissions – 5294 kg/year
- -1.83% Under Compliance
- Dwelling Emissions Rate (DER) – 21.97 kg/CO₂/m²/year
- Dwelling Fabric Energy Efficiency (DFEE) – 52.1 kWh/m²/year

Comparison of Results

Initial

EPC Rating 92 A

CO₂ Emissions – 1,614 kg/year

-6.9% Under Compliance

Dwelling Emissions Rate (DER) – 6.9 kgCO₂/m²/year

Dwelling Fabric Energy Efficiency (DFEE) – 52.1 kWh/m²/year

Proposed

EPC Rating 92 A

CO₂ Emissions – 5,294 kg/year

-1.83% Under Compliance

Dwelling Emissions Rate (DER) -21.97 kg/CO₂/m²/year

Dwelling Fabric Energy Efficiency (DFEE) – 52.1 kWh/m²/year

Cost Comparison

Initial

Air source heat pump – £8,000

TOTAL £8,000

Proposed

Electric water storage boiler – £4,000

TOTAL £4,000

What We Achieved
Savings Made

£4,000 on the dwelling