

EnergyBox - The Innovative Low Carbon Heat System

Low-Carbon Technology Makes Sense..







There's never been a better time to think about on site renewables



Electric Vehicle Charging



















Tracto to Energ

















The Clean Heat Challenge

The Problem

- **High-Cost Heating** "the New Normal" Heating accounts for 40% of buildings' energy use and 17% of UK's carbon emissions.
- Energy Insecurity

Fossil Fuel supply chain disruptions, impacts heat availability

Carbon Emissions

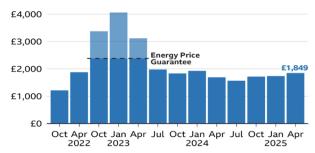
Rural oil-heated homes produces average of 5.5 Te CO₂ per annum

The Opportunity

- Net-Zero Target decarbonising community heat networks
- UK homes off-gas grid over 2 million a £multi-billion transition market
- UK Initiatives £450 million Boiler Upgrade Scheme a catalyst to heat pump adoption
- Leave No-One Behind Rural communities need to benefit



How the energy price cap has changed Typical household's energy bill*



*For a typical household on a price-capped, dual-fuel tariff paying by direct debit

Source: Ofgem

B B C



EnergyBox – The Journey

Stage 1 – Off-Grid Community Heat Network Investigation

Energy Assessments Toolkit Development Borehole Tests EnergyBox Technical Specification

EnergyBox CAD Model Low Carbon Heat Webinars

Industry Engagement









Innovation by Design - National Manufacturing Institute Scotland (NMIS) & RG Luma

Stage 2 - "Design for Manufacture" Finite Element Analysis & Manufacturing Process Study

. Condition 1: System is under its own weight. (50L buffer tank is full)

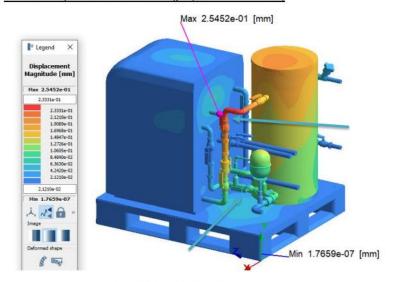


FIGURE 16: DISPLACEMENT IN CONDITION 1

Condition 3: System lost one of the slings.

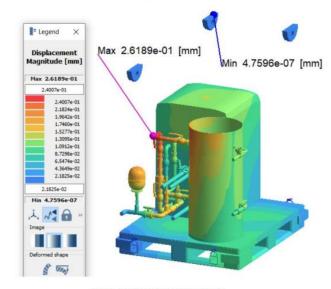


FIGURE 21: DISPLACEMENT IN CONDITION 3



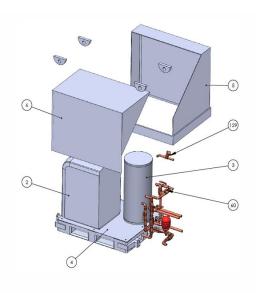
Innovation Matters...





The EnergyBox

Efficient Ground Source Heating in a pre-assembled, sustainable enclosure



Product USP

- "Drill and Complete" Strategy Reduce Time & Cost
- Plug & Play installation
- Open Source Monitoring
- Sustainability Maximise
 Recycled Materials
- Scalable: Variable heat capacities
- Dedicated or manifolded heat supply
- Trademark Application Filed





EnergyBox: A Commitment to Clean Heat Delivery

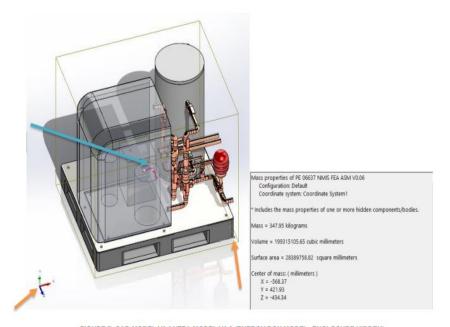


FIGURE 7: CAD MODEL V0.06/FEA MODEL V0.8 (ENERGY BOX MODEL- ENCLOSURE HIDDEN)



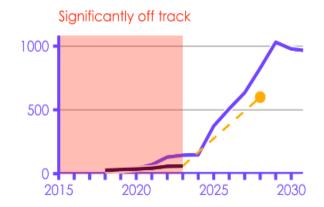


Clean Heat Solutions – Off Grid Low Carbon Heat Network Market

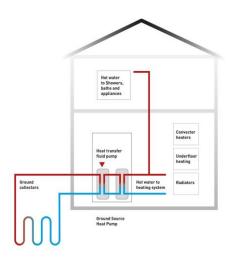
How domestic heat pump installations might increase to 2028



 Heat pump installation rate to increase by factor of 10 from 2023 levels to meet UK Govt target of 600,000 units per year by 2028 Heat pump installations (residential)(thousands)



- 16% of UK households use heat pump as primary heating equipment, adoption levels identical across all income levels
- Almost all new build homes need to switch to heat pumps at current rate of replacement of off-gas boilers



- Most cost effective over time and most environmentally friendly form of any heating and cooling system available today
- Heat pumps provide high user satisfaction and comfort





Key Customers - B2B































Memberships – B2B













Find out more...

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Business Declares















