

b united living property services

The David Middleton Sustainability Conference

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Whole House Retrofit Lessons Learned and Next Steps



GLA Innovation Partnership

- Energiesprong compliant
- LB Ealing 44 24 50
- Nottingham 8 46

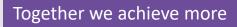
RB Kensington & Chelsea

- Treadgold House
- Energiesprong compliant
- 38 Flats









Retrofit Funding



Government Support

- Industrialise whole-house solution
- Innovate and reduce cost
- Better understanding of business case for stock investment





SHDF Projects – Demonstrator

- Clarion 60 Completed
- Value £4.5m (SHDF £2.25m)
- Wimpey No Fines
- Target of 50 kWh/m2 heat demand
- PAS2035 Compliance

Property address	SAP Rating (Section 12)		SAP Space heating requirement		
	Before	After	Before	After	
10 Norton Crescent, Tonbridge	65.25	88.04	143.66 kWh/m²/year	34.75 kWh/m²/year	
12 Norton Crescent, Tonbridge	65.19	88.9	144.04 kWh/m²/year	33.19 kWh/m²/year	



Together we achieve more



✓ Fabric First

- Enhanced EWI system
- Triple glazed windows
- High Performance Doors
- Improved Ventilation
 - Aereco dcMEV system
- Renewables
 - In line solar PV system
- Performance monitoring
 - Switchee controls / display



Together we achieve more



SHDF Projects – Wave 1

- Clarion 250 houses £9m (SHDF £2.7m)
- Places for People 127 houses £5m (SHDF £1.5m)
- Westminster CC 300 houses (surveys / options) SHDF £3m

Additional...

- Folkestone & Hythe 35 houses
- Paradigm Housing 50 houses





SHDF Projects – Wave 2

- c. 7000 homes
- Collaboration with other main contractors
- Tendering for opportunities £Ms

• Market is growing



Lessons Learned



- Not enough competent suppliers
 - Historic piecemeal approach had impacted industry
- Lack of awareness PAS 2030 / PAS 2035
 - clients / contractors / installers
 - additional costs / delays
- Procurement
 - needs early planning



Next Steps



- Supply Chain Engagement
 - Meet the Buyer Events
 - PAS 2035 support

- Working with Retrofit Academy
 - Focused training sessions
 - Employees / Clients

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Next Steps - Innovation



Solution

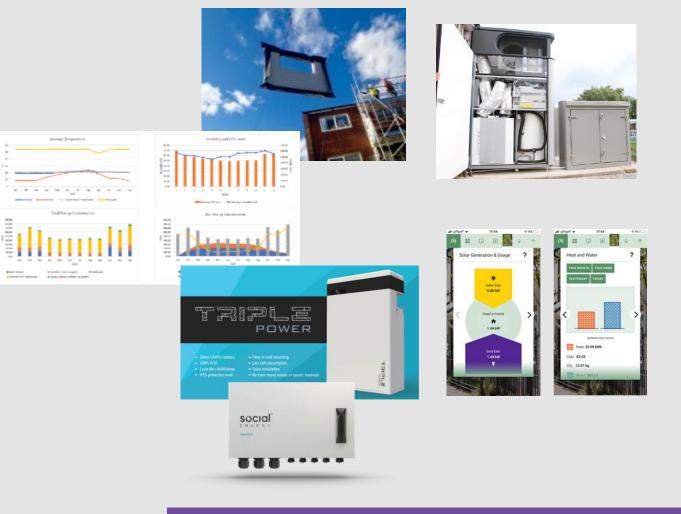
- Off-site manufacturing
- Walls / Roofs
- M&E Pods

Data and Customer Engagement

• Monitoring solutions

Smarter Technologies

- Smarter batteries / DSR
- Time of Use Tariffs



Together we achieve more