

# b united living property services

### The David Middleton Sustainability Conference

Andy Merrin Innovation & Decarbonisation Director





### Whole House Retrofit Lessons Learned and Next Steps



### **GLA Innovation Partnership**

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

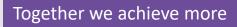
### **RB Kensington & Chelsea**

- 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