Kevin Hoban
Smart Street Project Manager
Smart Street project overview

| £11.5m, 4 year innovation project | Started in Jan 2014 and finishes in Apr 2018 | • Quicker connection of LCTs. • Lower energy bills. • Improved supply reliability. | Trials period Jan 2016 – Dec 2017 | Extensive customer engagement programme throughout project |
Voltage profile

Historic networks have no active voltage regulation
Problem - LCTs create network issues

LCTs rapidly surpass voltage and thermal network capacity
Smart Street – the first intervention

- Low cost
- Quick fit
- Minimal disruption
- Low carbon
- Low loss
- Invisible to customers

Voltage stabilised across the load range
Power flows optimised
Network reliability improvement

Builds on C2C and CLASS

- Storage compatible
- Transferable solutions
Smart Street benefits

New controllable equipment on network stabilises voltage

Allows us to lower voltage levels

Enables networks and appliances to work in harmony

How much could customers save?

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<th>GB</th>
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<td>Reinforcement savings via DUoS</td>
<td>£330 over 25 years</td>
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<td>Reduced energy consumption, 2013 (from CVR ≈ 3 - 7%)</td>
<td>£15 - £30 pa</td>
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<td>Maximise DG output (from maximising Feed In Tariff income)</td>
<td>£70 pa</td>
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Efficient network solutions • Energy savings • Carbon benefits
Smart Street summary

- Combine into one end-to-end system
- Optimisation

- First example of CVR
- First example of centrally controlled LV network
- Range of intervention solutions

- Faster LCT adoption
- Less embedded carbon
- Re-usable technology
- Optimise energy and losses

- Lower energy bills
- More reliable supply
- Reinforcement savings
Want to know more?

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<th><a href="mailto:futurenetworks@enwl.co.uk">futurenetworks@enwl.co.uk</a></th>
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<td>Website</td>
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<tr>
<td>Phone</td>
<td>0800 195 4141</td>
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