

Innovation Learning Event

Wednesday 5 July 2017

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Smart Street Technology

Ben Ingham

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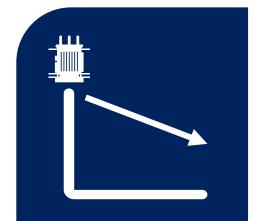


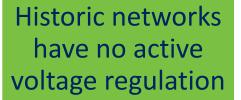


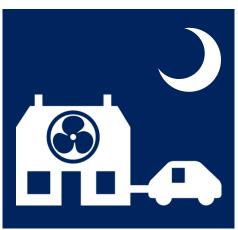


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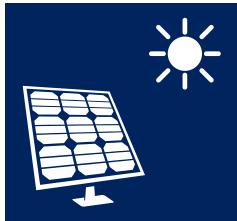




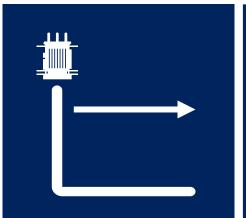


LCTs create network issues

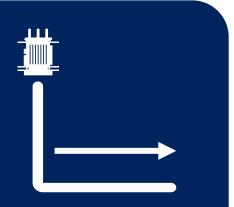
Customer
demand could
cause voltage to
dip below
statutory limits



Customer generation could cause voltage to exceed statutory voltage limits



Smart Street
stabilises voltage
across the load
range and
optimises power
flows



voltage reduction
Stabilised voltage
can be lowered
making our
network and
customers'
appliances more
efficient

Conservation













£11.5m, four-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

Lynx and Weezap





LV vacuum devices

Retrofits onto standard equipment

Replicates standard fuse curves up to 400A

Telemetered back to central monitoring point





LV units are multi-stage

HV units are single stage

Used for voltage control only





9 tap positions with 2% per step

Nominal tap

Self regulating on loss of comms

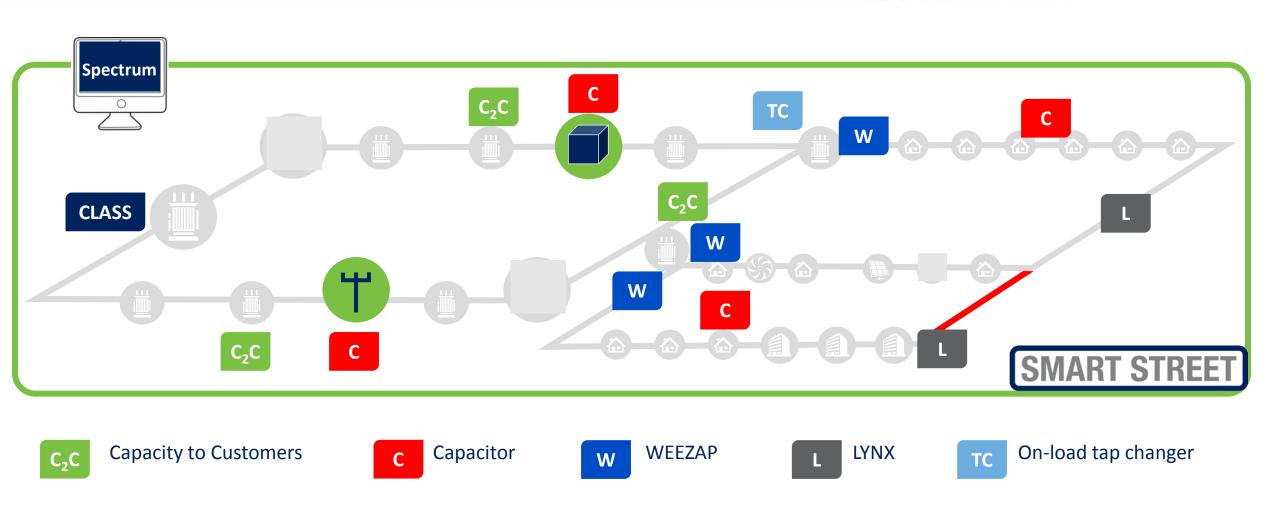
Learning points – site installations





Network overview





Builds on C₂C and CLASS ● Storage compatible ● Transferable solutions





Siemens network management system

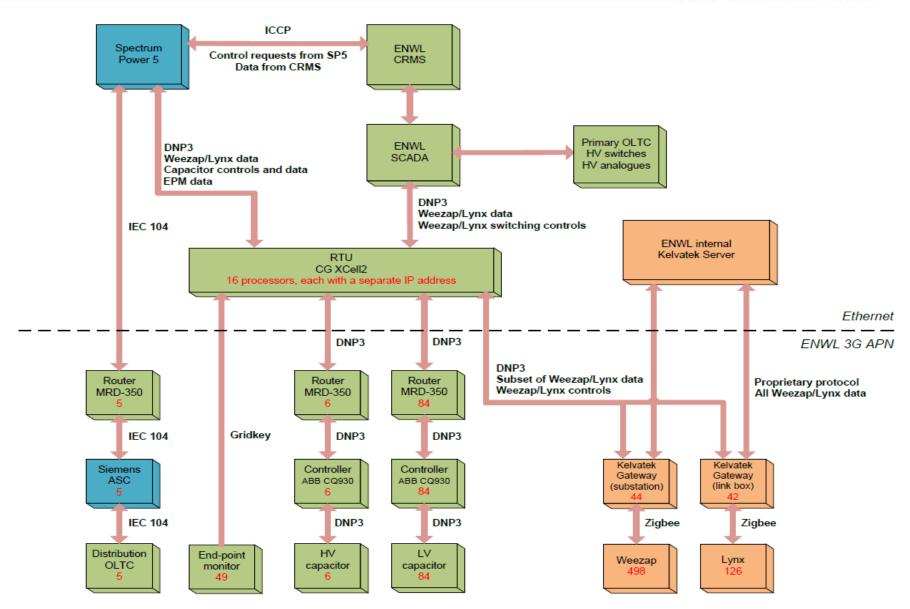


Optimisation module – DSSE/ VVC

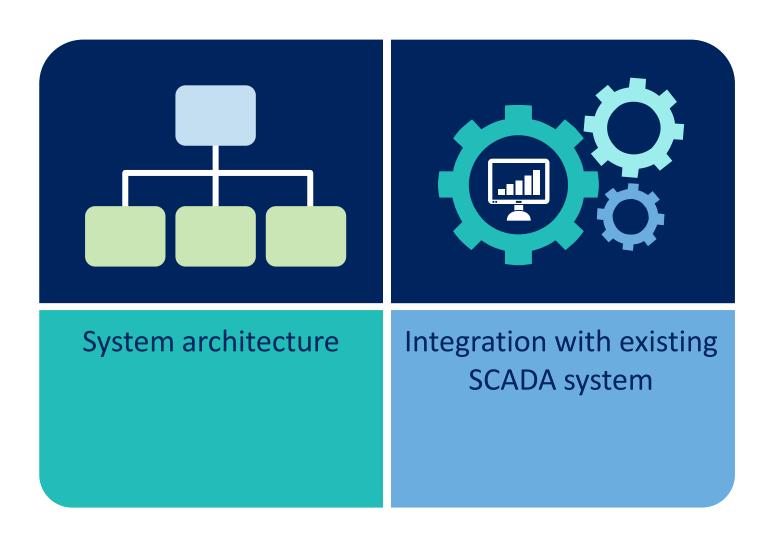


System architecture









For more information



