

Innovation Learning Event

Wednesday 5 July 2017

Stay connected...











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Celsius

Damien Coyle

Stay connected...





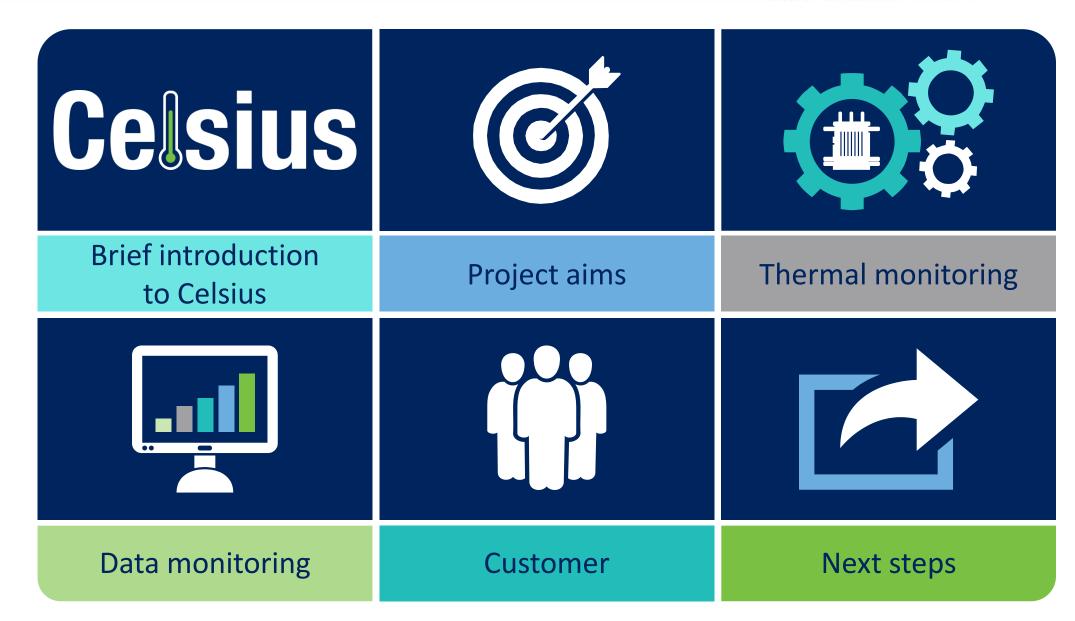






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Awarded: 9th December 2015

Go live

Monitoring installation Mar 2017

Monitoring trial Mar 2018 Thermal ratings tool stage 1 Oct 2018

Retrofit cooling installation Jun 2018

Cooling trial
Jun 2019

Thermal ratings tool stage 2
Jan 2020

Closedown Mar 2020



£5.5 million

Up to £583m across GB by 2050



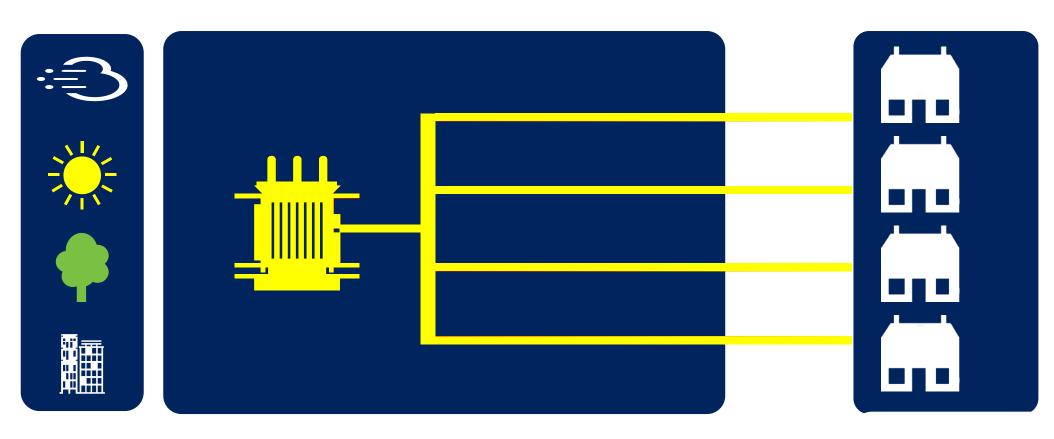










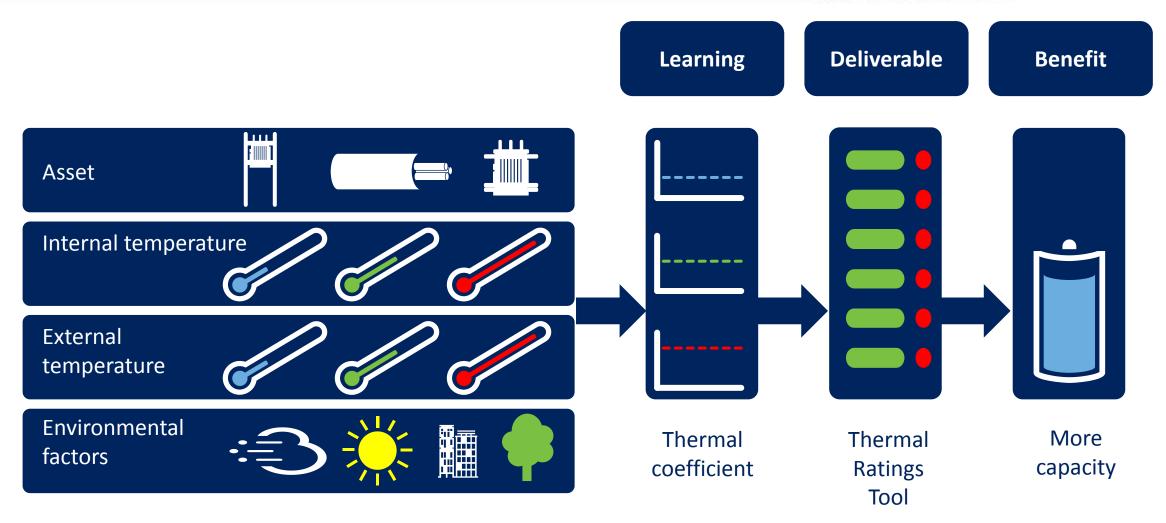


Distribution substation

Customers' LCTs

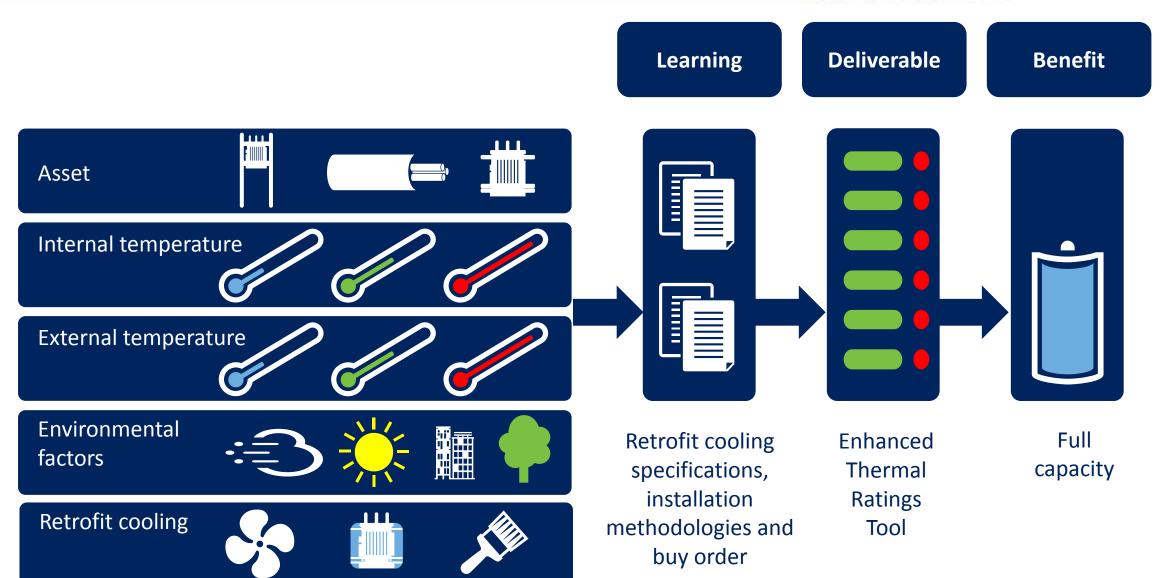
Step 1: Fit thermal monitoring





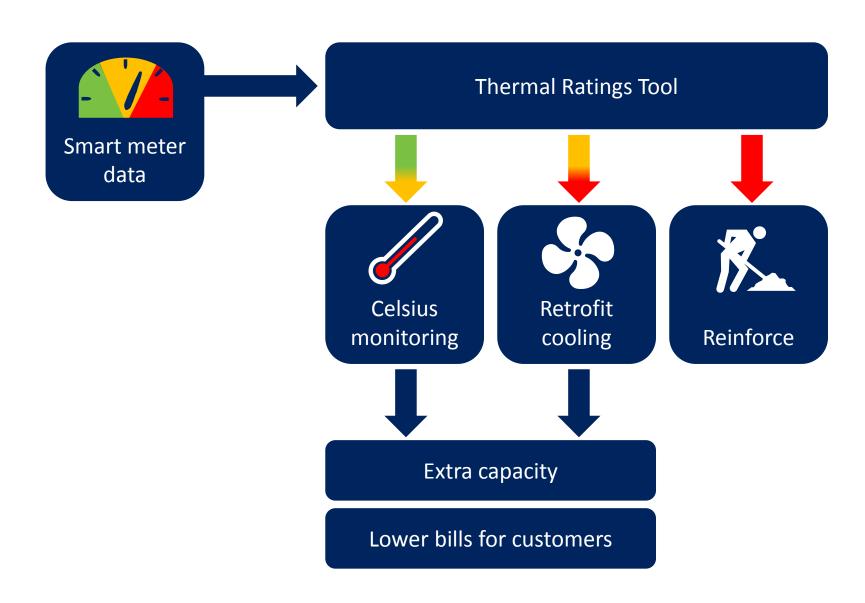
Step 2: Retrofit cooling





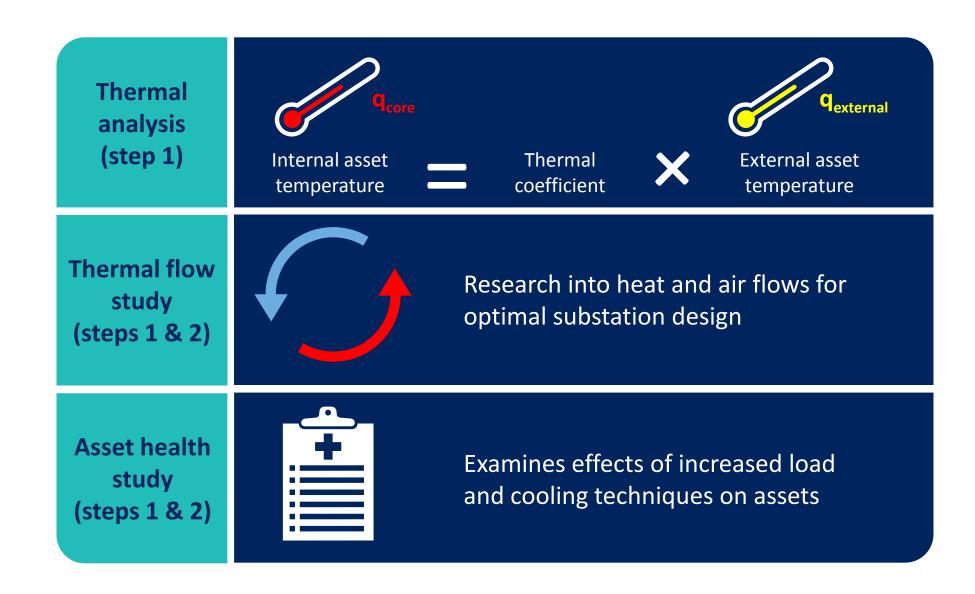
Celsius as part of the smart future





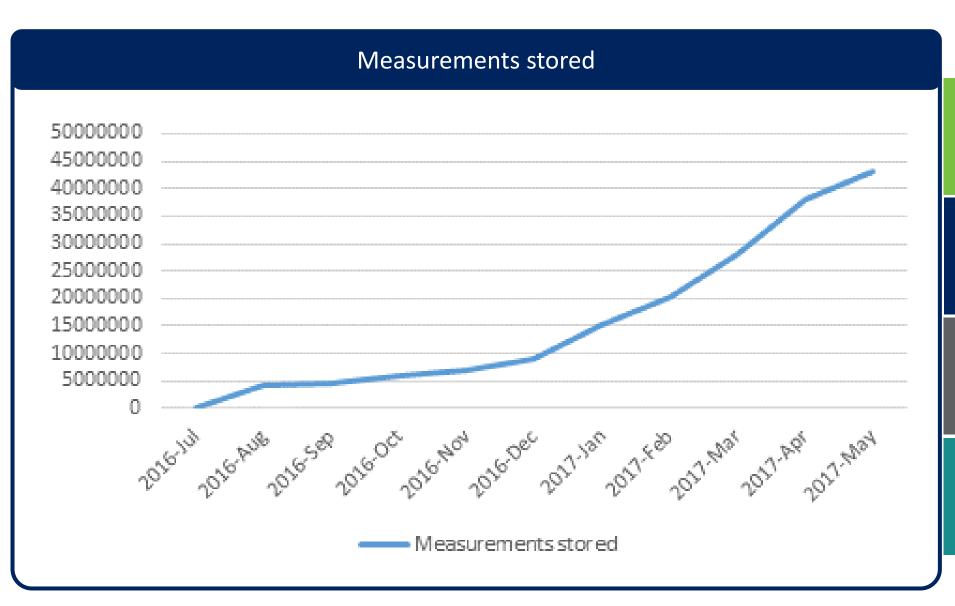
Case studies





Data to date





Latest metrics

289,477 inbound requests handled

43,292,611 measurements stored

72,081 lines of code





Data gaps through GPRS connection



Data gaps
caused by
backend
algorithm and
timestamp
handling



Firmware upgrade to the KTSO1 wireless temperature sensor

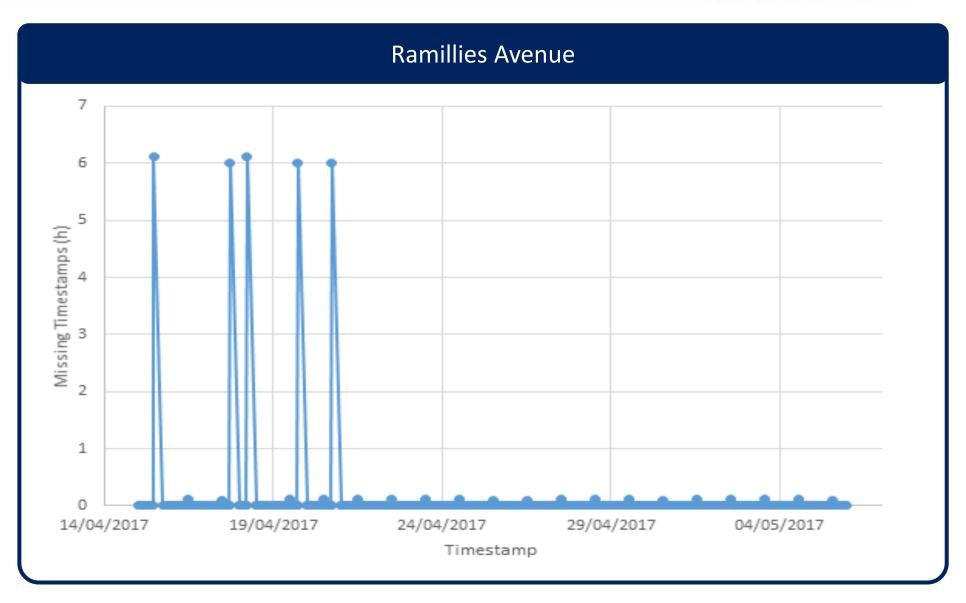


Firmware upgrade to HEX



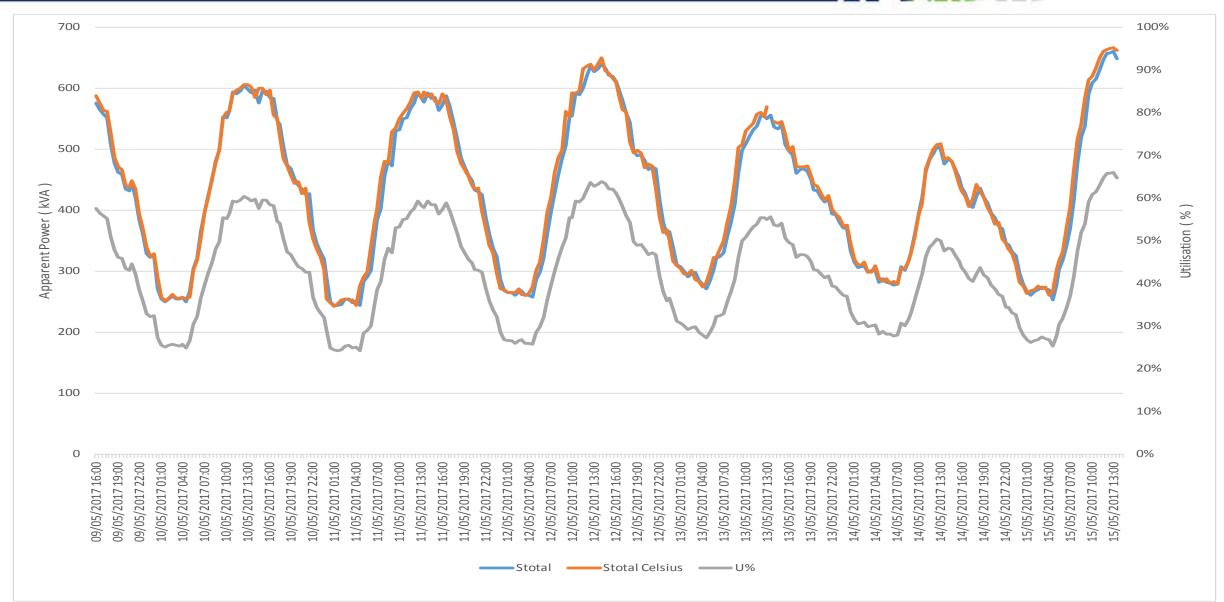
Firmware upgrade to HUB (OTA)





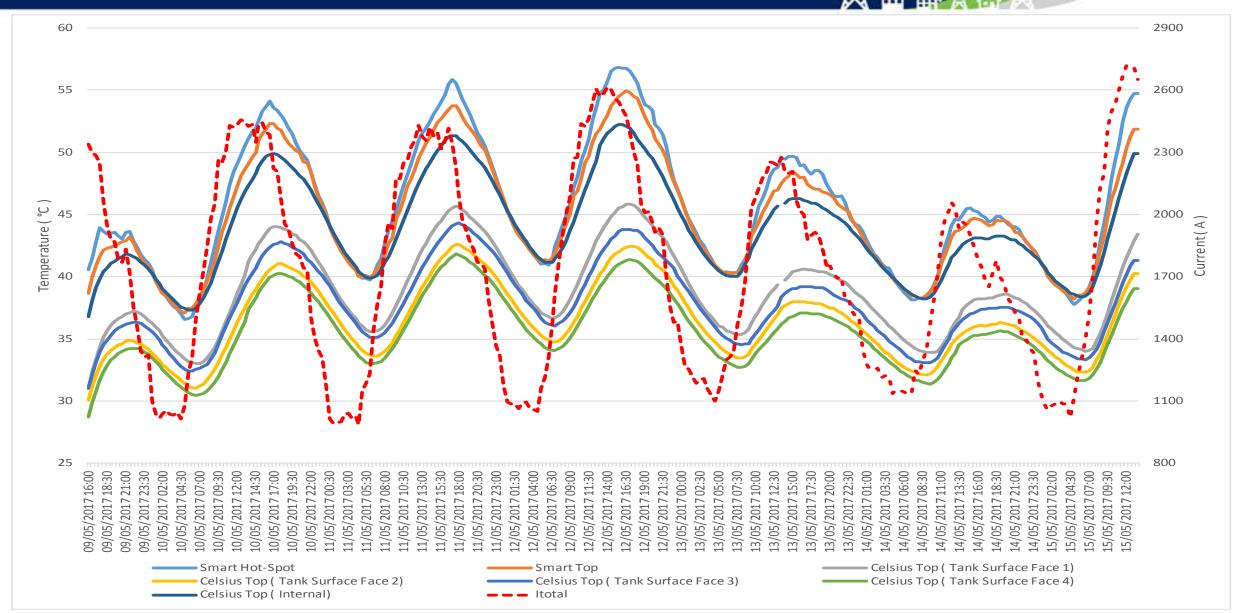
Smart Tx vs Celsius: power





Smart Tx vs Celsius: temperature



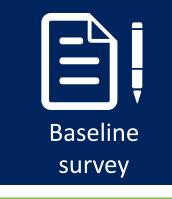




Customers in the Celsius trial areas will find the implementation of innovative retrofit cooling techniques as acceptable as traditional reinforcement

Customers who are educated as to the need for and benefits of Celsius are significantly more likely to find it acceptable

















Progress and next steps



January – June 2017 July - December 2017

January – June 2018 July – December 2018

Data capture

Thermal flow study

DNO cooling workshop

Customer focus groups

Monitoring installation report

Cooling Technologies selection

Cooling installation plan

Thermal flow study report

Installation of Retrofit cooling technologies

Customer surveys

Asset health study

Carbon Impact assessment

Asset temperature behaviour report

Thermal ratings tool (Step 1)

Knowledge sharing and dissemination

For more information



