



Heat Network Optimisation Part 3

Richard Hanson-Graville

Technical Director, Heatweb Solutions Ltd.

Substation Optimisation

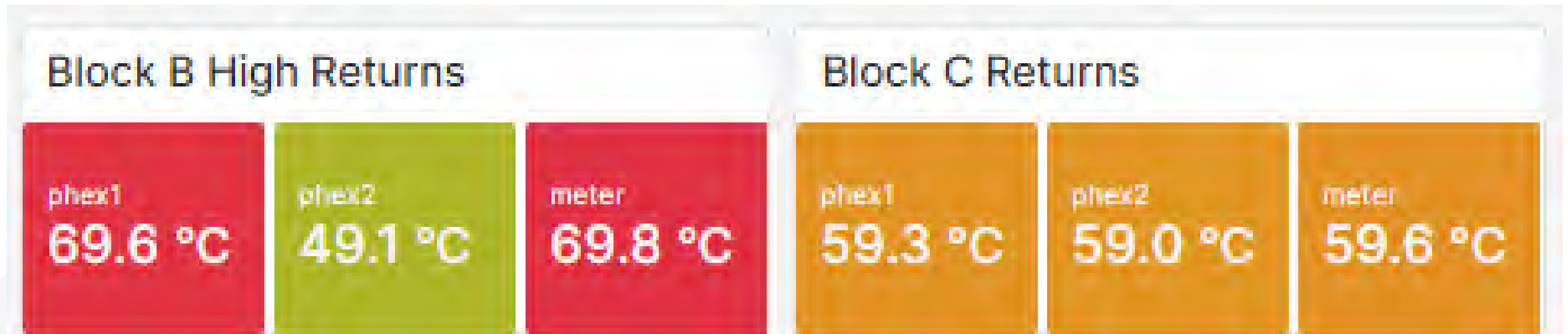
Substation Block 3	
Current Value	69.6 °C
Volume Weighted Average 1	70.1 °C
Volume Weighted Return Temperature 1	69.2 °C
Avg Secondary Return Temperature	58.2 °C
PHE Efficiency	34.2%



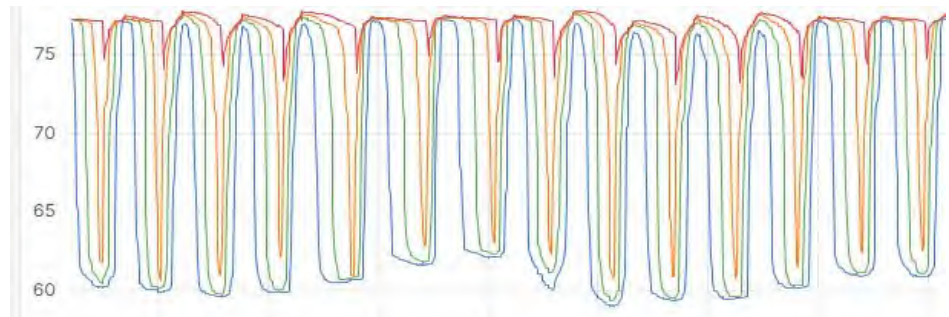
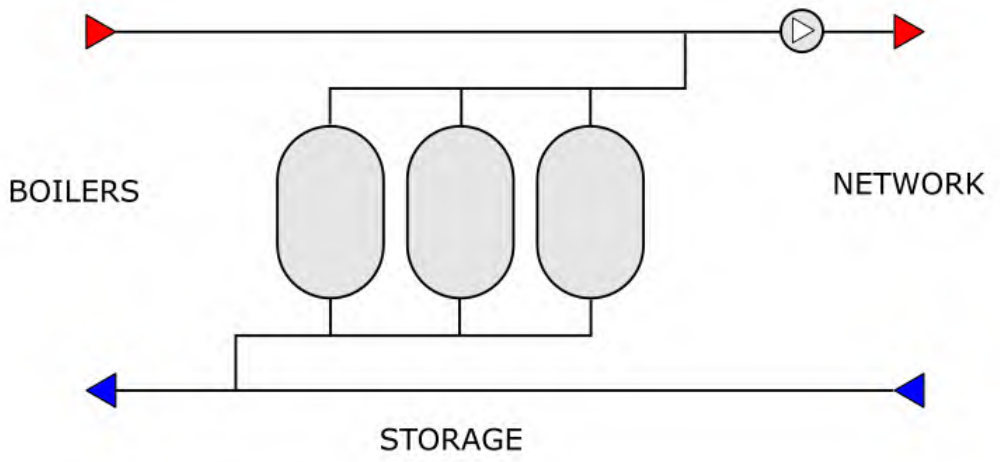
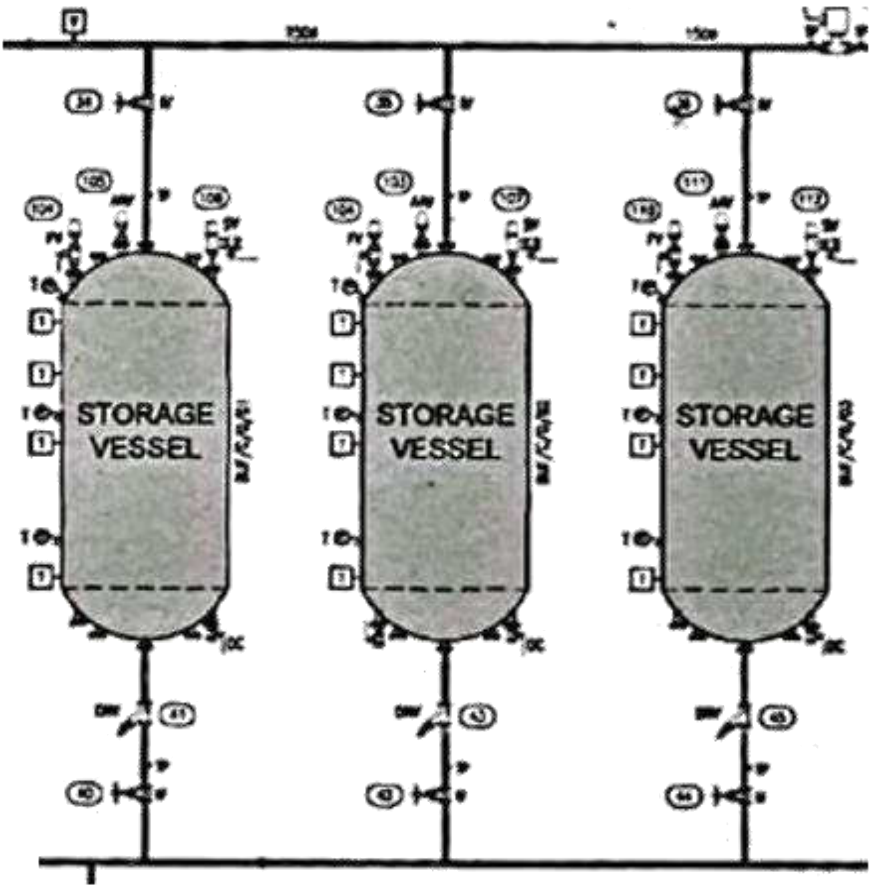
Point-to-Point Optimisation

Combining **BMS** data points with **Meter** data points allows common faults to be automatically identified.

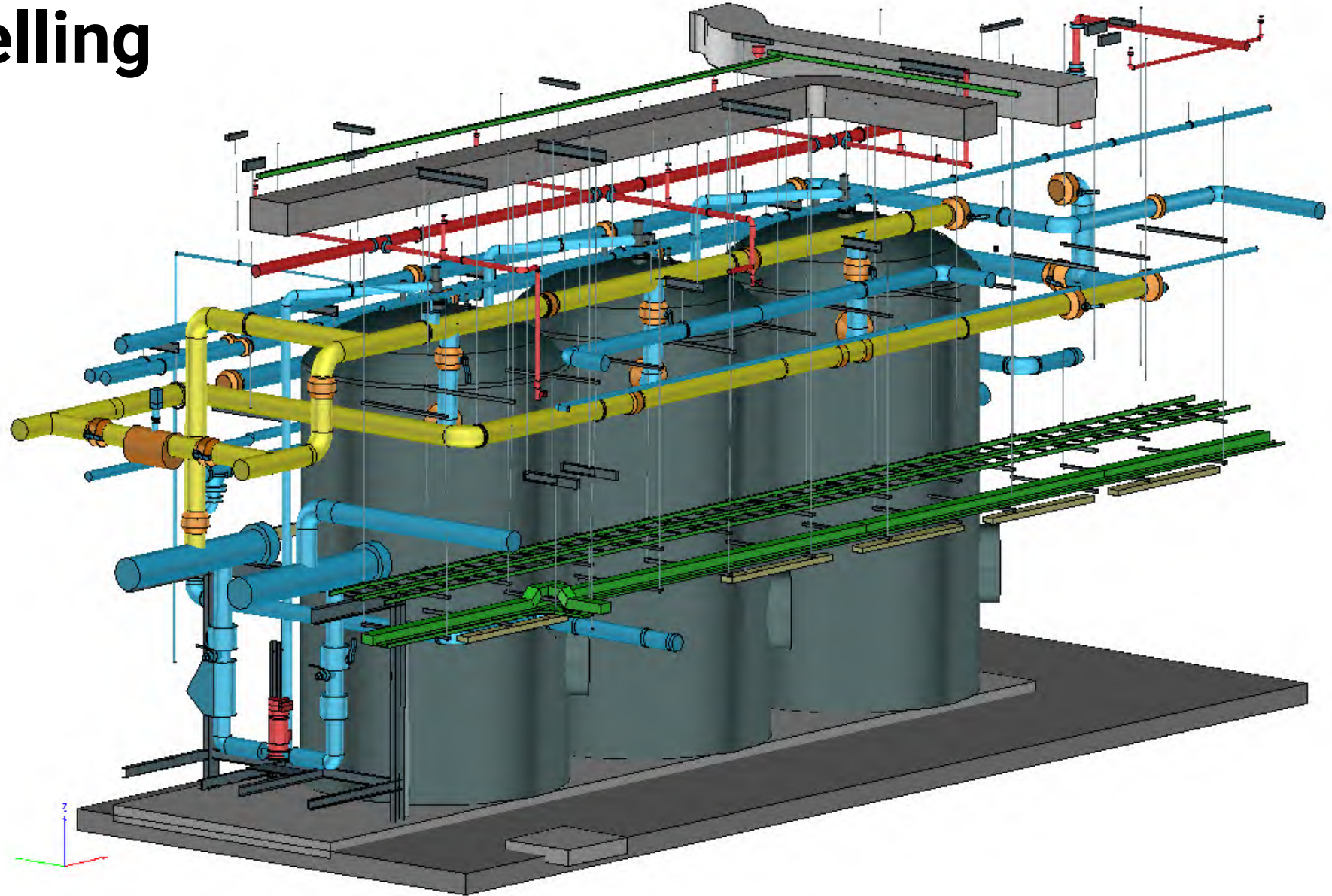
In this example, the sensor for Block B Substation PHE No 2 is a short sensor fitted into a long sensor pocket.



Buffer Store Optimisation



3D Scanning & Pipework Modelling

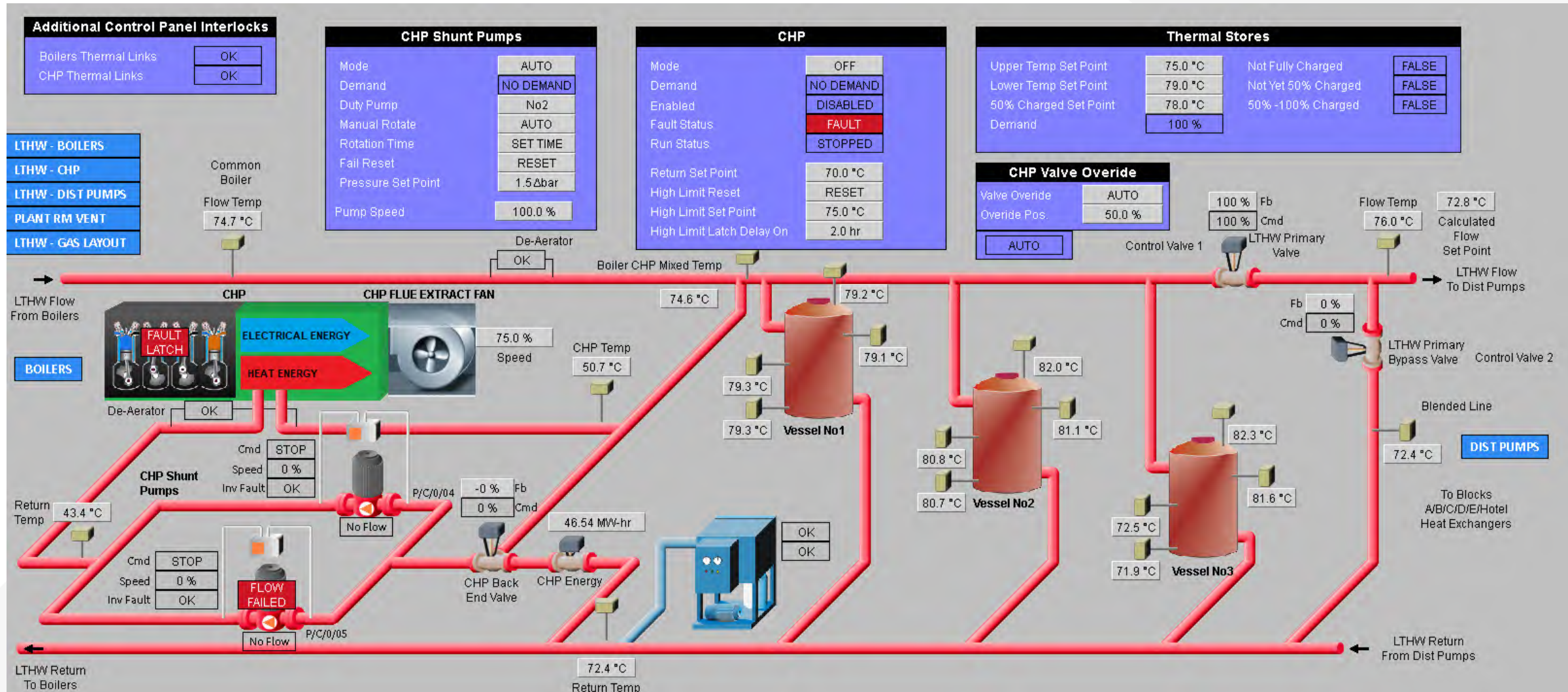


Alter 40m of 6" Pipework & Install 2 x 6" Control Valves

11pm Shutdown,
6:30am Fire up



BMS Optimisation



HNES: Optimising Cities



Southampton



Birmingham

