

# Energy Analytics as a Service (EAaaS)

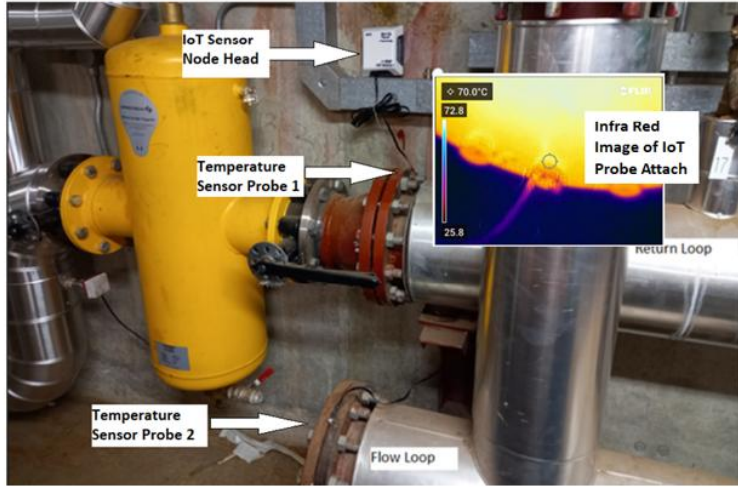
*Built on data driven Novosee™  
patent pending data driven  
analytics technology, EAaaS offers  
clients a cloud based simplified  
energy analytics service that  
quickly allows them to shine a light  
on those data dark areas, with the  
aim of improving their overall  
energy usage awareness.*



# EaaS How it Works End-to-End Example



Using IoT Device to Sense Flow Temperature on a Building's Low Temperature Hot Water (LTHW) System to independently generate the Heating Schedule



1

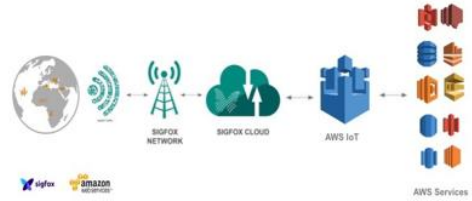
Attach the sensor probe to achieve good metal/metal contact to the heat/cooling source (tiewrap/magnet)



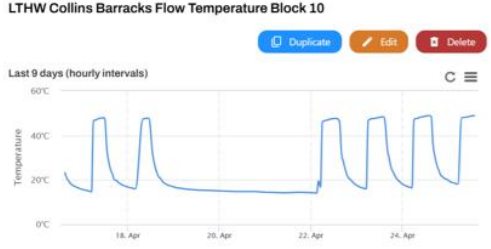
2

Periodic "tiny" data messages automatically backhauled through Sigfox Network and captured to cloud based database

## 3rd Party Cloud Provider



## Unified Browser Dashboard



3

Output visualisation on Web browser dashboard within 15 mins

# EAaaS Focus Areas

Provide users with an additional set of system performance kpis beyond the immediate out of the box realtime timeseries visualisations

## Low Temp Hot Water (LTHW)

Boiler Set Point, Supply Temperature Control, Demand and Runtime estimates, detecting schedule shifts and presence of dry cycling

## Chilled Water (CHW)

Chiller Set Point, COP, Demand and Runtime estimates, and detecting schedule shifts and presence of condenser fouling

## Refrigeration (Evap & Condenser)

Fridge SetPoint Attainment, Defrost Performance, estimates on thermostatic and compressor runtimes and detecting presence of evap iceup conditions

## Pumping (Staged Compressors, Primary & Pumps)

Estimates on Pump and compressor runtimes and duty cycles and detecting pump out of hours operation and early indicator of pump wearout

## Environmental Conservation Monitoring

Environmental Compliance alerting and reporting for regulated environments like museums, incld mould outbreak prediction reporting

## Heat Pumps\* (Air to Water )

Supply Temperature and ongoing COP estimates and compressor runtimes

*\* at development stage*



# EAaaS : Value Proposition



Solution **SIMPLE**, **QUICK** and **EASY TO DEPLOY** with no disruption, and minimal installation costs



**LOW COST** Low Risk Investment - subscription based so only pay for what you need, or for however long you need it



Works with **ALL** technologies - removes all systems integration concerns

=> Very Quick Time to Value



**FLEXIBLE** – can add/modify sensor array coverage with little or no effort or disruption