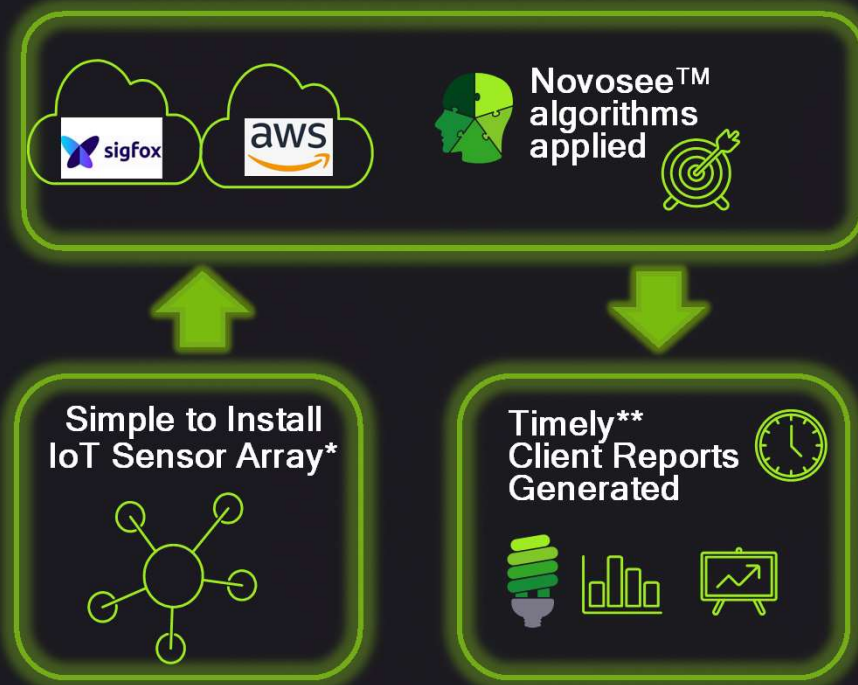


Energy Analytics as a Service (EAaaS)

*Built on data driven Novosee™
patent pending technology EAaaS
offers clients a cloud based
simplified energy analytics service
that quickly allows them to shine a
light on those data dark areas to
help them to improve their overall
energy usage understanding.*



EAaaS : How it Works



**Sensor Array Configuration Agreed with client at Project Design Stage
incld Temperature, Energy Electrical Gas Pulse Meter Sensors*

*** Instance Algorithm tuning will be required based on a minimum of 2 wks data acquisition*



EAaaS : Value Proposition

- ✔ Solution **SIMPLE** and Easy to Deploy
- ✔ **LOW COST** Low Risk Investment - monthly subscription based 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

EAaaS Focus Areas

Provide users with an out of the box set of system performance kpis

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*

Heat Pumps* (Air to Water)

Supply Temperature and ongoing COP estimates and compressor runtimes

Bespoke Energy Analytic Service Development

Joint development of a bespoke analytic service that can be deployed on client platform or through EAaaS service

* at development stage



EAaaS Modes

Forensic Mode

Deployed in non permanent forensics mode the IoT enabled sensor array within short period of time will begin reporting on a set of predefined key performance metrics based on application of patent pending *Novosee™* technology

Constant Commissioning Mode

Deployed in permanent mode the IoT enabled sensor array continues to monitor on going performance through regular easy to read reports and alerting of non normal behaviour over time

For more info on EAaaS please contact niall.brady@novocetus.com