



#### Project Details

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CLIENT: WELL KNOWN 24-HOUR GYM OPERATOR

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TASK: BUILDING ENERGY MANAGEMENT SYSTEM

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#### Contact Us

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#### The Background

The Client approached us with the task of monitoring and controlling their HVAC and Energy remotely using an intelligent BEMS. The existing site also incorporated PV which they wanted to incorporate into their new Gym design and understand its benefit.

#### The Cura Energy Approach

We assessed the client requirements and chose to provide an RDM BEMS due to its cost-effectiveness, reliability and 3<sup>rd</sup> party integration compatibility.

A BACNET/IP interface was provided to integrate the gym's VRF System & HRUs to the BEMS. This allowed read/write capability with the VRF System/HRUs whilst allowing the manufacturers own proprietary control to provide the primary control functions.

The new BEMS monitors items of plant and equipment via both traditional hardwired connections and also via software integration. Combined CO2/temperature sensors were provided to monitor and control the fresh air content into the building via the HRUs and to reduce energy consumption when not required. The main energy utilities entering the building were monitored (Gas, Water & Electric) together with additional electric sub metering of individual distribution boards via MODBUS and the PV data.

#### The Result

RDM's open protocol gave the Client the ability to integrate the plant & equipment easily remotely and at site level. Site issues, energy consumption and faults can now be diagnosed and actioned remotely saving site attendance.

The energy metering data allows the energy base line of the building to be monitored, the effectiveness of any energy initiatives carried out and the benefits of the PV.