

## **CASE STUDY**

### Digitised, Smarter Building Operations with PEAK

#### **Life Sciences**

CIM's building analytics software is helping Fortune 500 Complex Manufacturing facilities to rapidly transform facility operations driving efficiency, sustainability and economic benefits.

A world-leading manufacturer of pharmaceuticals partnered with CIM to more effectively manage critical plant and equipment. PEAK has delivered cost reductions, CO2 savings, improved uptime, increased reliability, identified safety concerns, and empowered facilities technicians. Since the inception of our partnership in 2019, PEAK has been deployed across 12 sites globally with this client facilitating greater control over these highly-regulated and complex facilities.

Building One, 25000sqm - €91,700 savings identified in 6 months Building Two, 17000 sqm - €62000 savings identified in Year 1





### Challenge

This world-leading manufacturer produces Active Pharmaceutical ingredients and Biologic products under strictly controlled and regulated environments. The environment in these validated manufacturing operations must be strictly monitored, measured and retained at approved levels, while all other areas must maintain the quality needed for staff safety and comfort, plus equipment operation. Production Uptime is critical, with Cost Per Kg scrutinised at a site level. Corporate Net-Zero goals also remain high priority with pressure building to deliver.

66 We were dealing with a stagnation of energy reduction initiatives, and were finding it difficult to identify low-cost and quick initiatives and solutions. This was leading to Operators becoming more and more inefficient due to unclear direction - Site Facilities Manager



66 We were not optimising our buildings to operate in line with their design intent. Lack of visibility, expertise and resources were forcing a reactive maintenance regime having an overall negative effect on operations and reporting.

- Facility Manager

### **Objectives**

Based on these challenges, the objectives for CIM were clear. Areas where the PEAK Platform could support this Life Science Manufacturer were immediately identified –

- Energy Consumption needed to be managed, as quickly as possible. This manufacturer has committed to NetZero by 2030 (scope 1 +2) and reducing demand side consumption is imperative.
- 'Dark' system level data had to be unlocked and onsite operations teams empowered with identified actionable insights to create change.
- Systems reporting needed to be streamlined, which in turn would lead to Operator and Asset Efficiency, and enable proactive maintenance.

### Solutions

Large complex pharmaceutical sites generate a wealth of data that when unlocked by a proven building analytics software, can help to drive better decision making and improve operational performance. To harness these opportunities within its own portfolio, this Life Science Manufacturer engaged CIM as its preferred building analytics provider to help uplift the operational performance of its major manufacturing sites. The PEAK platform delivers a smarter, data-driven approach to building operations, and in partnership with CIM's customer success team of remote engineering experts, the onsite teams receive the right advice on building tuning, optimisation, maintenance and CAPEX planning.

### **Key Results:**

- Energy savings 4GWh, 1200MT of CO2e, 10x return on investment within 12 months
- Improved visibility and control across critical plant and equipment - preventing downtime, improving compliance (GMP areas), and optimising thermal comfort for employees.
- Accountability for contractors PEAK provides this lifescience facilities manager with the ability to ensure contractors are resolving issues in line with their SLA (service level agreement)



**66** Fantastic platform – love the analytics & transfer of data. Everyone involved in the facility's performance is now using PEAK to raise, discuss and investigate issues. PEAK has also become key when we are developing strategies to improve performance as we now have historical review on how the building has responded to previous strategies. PEAK has not only given us environmental and economical benefits, but has created a complete cultural shift to a supercharged, efficient team.



#### **How CIM Achieved This:**

Points Commissioned



**Machine learning** 

simple

### Spotlight - Building 2



#### Achievement in 6 Months:







75+ Identified Issues



€32,000 Identified Savings in 6 Months



Technical engineering support transparent

### PEAK

CIM's award-winning PEAK platform integrates building intelligence, machine learning and technical engineering support to improve efficiency, sustainability and compliance across life science manufacturing sites. PEAK was recently recognised for its contribution to sustainability at the Analytics and AI Awards, winning Sustainability Project of the Year.

**Building intelligence** 

smart

- Simplifies and accelerates the end-to-end process of fault detection, diagnosis and problem resolution
- Automatically collects and monitors live building data, and leverages algorithms to pinpoint, highlight and prioritise inefficiencies
- Facilitates a collaborative workflow with stakeholders to quickly resolve issues
- Provides visibility and insight to optimise site and portfolio performance.

We look forward to hearing from you.

#### CONTACT

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