

Project Background

This is a commercial building with a total area of 27,000 sqm. Located in Sydney. AdOPT has been operating on this facility since March 2018, collecting real-time data from 20,546 data points from the BMS.

By improving energy and operation efficiency, \$743,706 annualized savings will be achieved. Moreover, thermal comfort has been significantly improved and tenants' complaints minimized. This revealing and highly automated platform will allow management to implement an IoT strategy for the building which will continue to automate data optimization and reduce costs and the Carbon footprint of the building



Located in Sydney, Australia

Value Matrix



Maintenance Cost

Annual saving \$439,108

- Faults such as abnormal staging of equipment and oscillation of actuators significantly shorten equipment life length, and as a result, additional maintenance cost or even replacement are required during the life cycle of properties and facilities.
- Detecting those faults in time, predictive maintenance enabled by AdOPT's AI Engine effectively extends equipment life and significantly reduces downtime uncertainties.
- Savings from avoided maintenance and extended lifespan have accumulated to \$439,108.



Energy Use

Annual saving \$203,798

- AdOPT platform helps management to identify a considerable number of energy saving opportunities in an automatic and continuous way.
- Besides detected faults that waste energy, operation sequence will be analyzed for the past 24 hours and predicted for the next 24 hours, helping to optimize energy performance.
- Energy savings annualise of \$203,798 has been achieved.



Operational Efficiency

Annual saving \$100,800

- A variety of customised reports are automatically generated for the management team. They not only visualise operation issues for their daily management, such as weekly meeting with contractors, but provides intelligence for decision-making on long-term strategies.
- This greatly saves time for management, reduces call-outs and improves processes to focus on the most important issues at all times.
- Savings of \$100,800 has been estimated from the improved operation.



Thermal Comfort

- 32 rooms, 10% of the total, have been identified as overheated or overcooled in recent months. With AdOPT's thermal comfort analysis, root faults are diagnosed so this discomfort can be quickly isolated and re-positioned. This improves the tenant's overall comfort and managements communication of rectification to decrease their complaints.

Overall Benefit

- Operation efficiency is improved and man-hours saved during daily operation
- Accurate and real time fault detection optimizes the maintenance, extends the equipment lifecycle and reduces energy use.
- Overall cost saving achieved so far is \$743,706.
- In addition to this, there will be great value from enhanced tenant satisfaction, improved sustainability scores and continuous automation.

