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Built Environment Optimisation

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Built Environment Optimisation

01 Project Summary

Since deploying Skyspark, we have identified and rectified significant issues concerning daily plant operation, both during and out of business hours. There were multiple issues regarding chiller staging, out of hours operation and incorrect chiller startup sequencing. With the implementation of sparks for each identified issue, significant costs were reduced and the potential for recurrence was eliminated.

-12%
Water Use

02 Project Details

Following Airmaster's procurement of a maintenance contract at 44 Martin Place, Factility Tracker was deployed on the building as a 12 month value-add trial. Since the projects inception, there have a multitude of contributing operational issues that have since been eliminated for a more efficient operation.

See overleaf for a visual of the sparks which highlighted dominant issues causing unnecessary energy and water use…

03 Project Outcomes

1 With the help of Skyspark, we were able to stabalise the chiller operation that has resulted in a huge reduction in daily chiller starts, which is a massive improvement.

2 It also became apparent that the chillers were running out of hours and out of sync with the AHU's causing additional energy waste.

3 The most recent discovery relates to the chiller startup sequence being incorrect, with the Hi-load chiller starting prior to the others. Addressing this aided in additional energy savings.

"Before Skyspark was deployed, it was common for the Chillers to start more than 21 times in one day of operation.

Highlighting specific chiller staging issues, we managed to reduce the Chiller starts to as little as 3 starts per day. We are impressed at the power of Skyspark and we are excited to introduce the product to more customers"
- Rob Huntington, ACT Branch Manager

-5%
Energy Use

Before

After

Out of hours chiller operation

Incorrect chiller startup sequence

44 Martin Place