



HONEYWELL FORGE

OPTIMISING PREMIUM COMMERCIAL BUILDINGS WITH HONEYWELL FORGE

How Palace Tower Perth Improved Energy Efficiency
and Asset Performance with Honeywell Forge

Case Study

BUILDING PROFILE:

Premium Commercial Tower

LOCATION: Perth, Western Australia

THE CHALLENGE

Premium commercial buildings are under increasing pressure to meet environmental performance targets while maintaining a high standard of occupant comfort. At Palace Tower Perth, performance is closely monitored, with NABERS outcomes playing a central role in operational decision-making.

Like many complex assets, the building relied on a traditional Building Management System (BMS) that could not always surface hidden inefficiencies – such as overlapping schedules, control instability or undetected mechanical degradation. These issues can increase energy consumption, accelerate asset wear and reduce operational visibility over time.

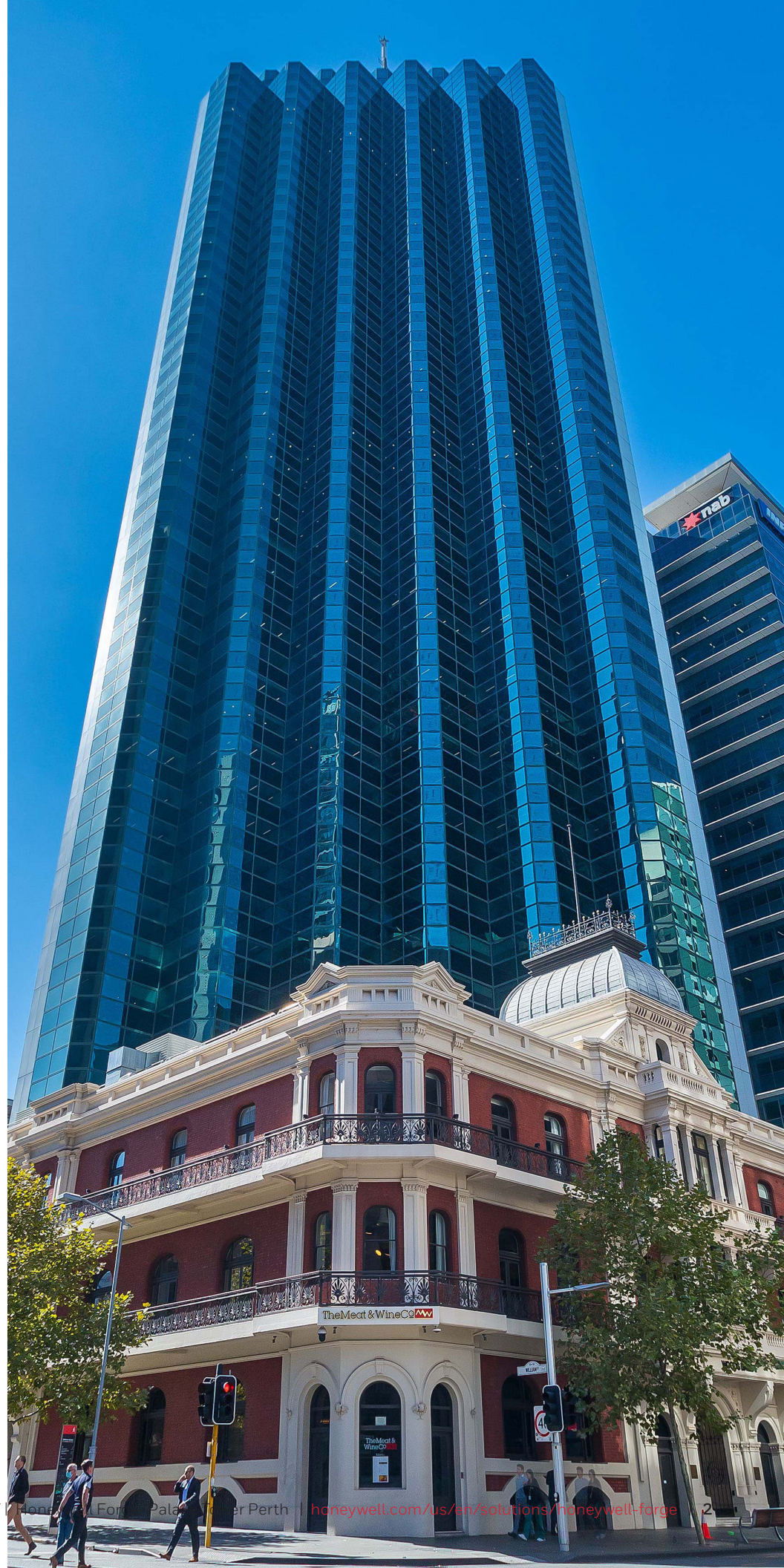
THE SOLUTION

Palace Tower deployed Honeywell Forge for Buildings, a cloud-based analytics platform designed to provide continuous insight into energy use, equipment condition and system performance.

By analyzing real-time and historical building data, Honeywell Forge identified operational issues that were not visible through conventional monitoring alone. These findings enabled targeted intervention, measurable cost avoidance and improved confidence in building performance.



CASE STUDY



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KEY FINDINGS & OUTCOMES

FINDING 1: GHOST SCHEDULING

Within the first week of deployment, Honeywell Forge identified a HVAC scheduling conflict affecting multiple Air Handling Units (AHUs). Several units were operating in an independent pre-cool and pre-warm cycle before normal occupancy hours, despite no requirement for early operation.

Temperature trend data confirmed that the building's thermal mass maintained acceptable indoor conditions without this additional runtime. The redundant sequences were removed.

Impact

- Reduced unnecessary plant runtime
- Lowered energy use and mechanical wear



Our estimated avoided cost:
\$9,100 ANNUALLY

FINDING 2: PROACTIVE ASSET HEALTH & MECHANICAL INTEGRITY

Honeywell Forge identified 19 AHUs that were failing to achieve static pressure setpoints. As a result, supply air fans were operating continuously at full speed to compensate.

Further investigation traced the issue to slipping fan motor belts. Under standard maintenance schedules, the issue may have persisted undetected.

Once rectified, fan speeds returned to normal operating ranges, reducing electrical load and mechanical stress.

Impact

- Reduced fan energy consumption
- Lower risk of belt and motor failure
- Improved maintenance targeting



Our estimated avoided cost:
\$14,440 ANNUALLY



FINDING 3: IDENTIFYING “PLANT MANUAL OVERRIDES”

The platform also detected equipment operating outside of normal schedules due to manual overrides left in place following maintenance activities.

By providing immediate visibility of assets running in manual mode, the facilities team was able to return systems to automatic control more quickly and prevent unnecessary after-hours operation.

Impact

- Reduced after-hours energy use
- Reduced avoidable runtime on AHUs



Our estimated avoided cost
to date: **\$2,000**

“Since implementing Honeywell Forge on site, we’ve significantly enhanced our ability to maintain optimal building performance through proactive monitoring and data-driven decision-making. The platform has become an invaluable tool when coordinating with contractors, allowing us to provide them with real-time insights and historical trend data that streamline troubleshooting and reduce diagnostic time.

These capabilities have transformed our maintenance approach from reactive to predictive, improving both operational reliability and cost efficiency.”

Alan Potts
JLL Senior Facilities
Manager



*“In a building such as Palace Tower, where performance is heavily scrutinized and NABERS is closely monitored, **Forge has been a welcome addition and is proving to be a timely and valuable tool** for assessing plant operation, energy consumption, and overall efficiency.”*

Craig Hogan
Envir Group Service Supervisor –
Mechanical Contractor

FINDING 4: REDUCING SENSOR FAULTS & INEFFICIENT ECONOMY CYCLES

Honeywell Forge detected more than 30 faulty or drifting sensors across temperature, humidity, CO₂, pressure and airflow points.

Faulty sensors can drive excessive heating, cooling or outside air intake, increasing energy use and affecting occupant comfort. Early identification allowed maintenance teams to prioritize corrective action before issues resulted in tenant complaints or elevated energy consumption.

Impact

- Improved data reliability
- Reduced risk of inefficient HVAC operation
- Provided better support for comfort and sustainability targets

FINDING 5: ELIMINATING CONTROL LOOP OSCILLATION

Analytics identified widespread oscillation in control loops affecting valves, dampers, fan speeds and pump operation. These unstable control sequences caused equipment to continuously ramp up and down rather than operate at steady-state conditions.

Control parameters were adjusted to stabilize performance.

Impact

- Reduced mechanical stress on actuators and drives
- Decreased energy consumption
- Improved long-term equipment reliability



Our estimated avoided cost:
\$6,900 ANNUALLY



OUTCOME: ENHANCED COMFORT & NABERS PERFORMANCE

By addressing these issues, Palace Tower achieved measurable improvements in operational efficiency while strengthening visibility into comfort and environmental performance.

Honeywell Forge now supports continuous monitoring of temperature, humidity and CO₂ levels across occupied zones, helping the facilities team align operations with NABERS Indoor Environment performance requirements and support long-term energy objectives.



OPERATIONAL TRANSFORMATION

Honeywell Forge has enabled a shift from reactive maintenance toward a more structured, data-led operating model. The platform provides a shared performance view for facilities teams and service partners, supporting informed planning and consistent monthly performance reviews.

This approach has improved coordination across mechanical, electrical and controls contractors and reduced time spent diagnosing recurring issues.

The findings and estimated avoided costs presented in this case study are based on a limited evaluation conducted under specific conditions and assumptions at the time of testing. Results may vary depending on differences in environment, usage, data inputs, building size and mechanics, and other factors outside the scope of this analysis. Any estimated avoided costs, savings, or efficiencies are projections derived from available data, internal methodologies, and reasonable assumptions, and are provided for illustrative purposes only. Such estimates do not constitute guarantees of actual savings or performance and should not be relied upon as definitive financial outcomes. This case study is intended solely for informational purposes and does not constitute financial, legal, or operational advice. Organizations should contact a local Honeywell representative to conduct their own independent analysis and validation before making decisions based on these findings.

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