

NY CARLSBERG GLYPTOTEK MUSEUM

World-famous Art Museum in Copenhagen
boosts comfort performance with
Honeywell Forge Digitized Maintenance*

Case Study

**Formerly Outcome Based Service (OBS)*



Honeywell

The Ny Carlsberg Glyptotek museum in Copenhagen houses over 10,000 works of art, primarily divided between ancient antiquities and Danish and French sculpture as well as painting from the 19th century, including works by Auguste Rodin, Toulouse-Lautrec, Manet, Monet, Renoir, Cezanne and Gauguin.

BACKGROUND

First opened to the public in 1897, the Ny Carlsberg Glyptotek added two other wings in 1906 and 1996, connected by a domed Winter Garden. The museum is a cultural magnet, with music concerts, poetry readings, lectures and debates regularly taking place in its auditorium and the surrounding halls and galleries.

PROJECT OVERVIEW

With its core buildings constructed over a 100-year period starting in the 19th century, the Ny Carlsberg Glyptotek wanted to take advantage of advanced technology and actionable insights to improve energy efficiency and to enhance the experience of staff and visitors.

Creating the right environment was key to ensuring the performance of the museum and the preservation of its valuable contents.

Honeywell has provided its Honeywell Forge Digitized Maintenance service for predictive maintenance along with its Enterprise Buildings Integrator (EBI) platform to improve the overview of the museum's environment systems and to change its planned maintenance programme into a more efficient and cost-effective predictive maintenance programme.

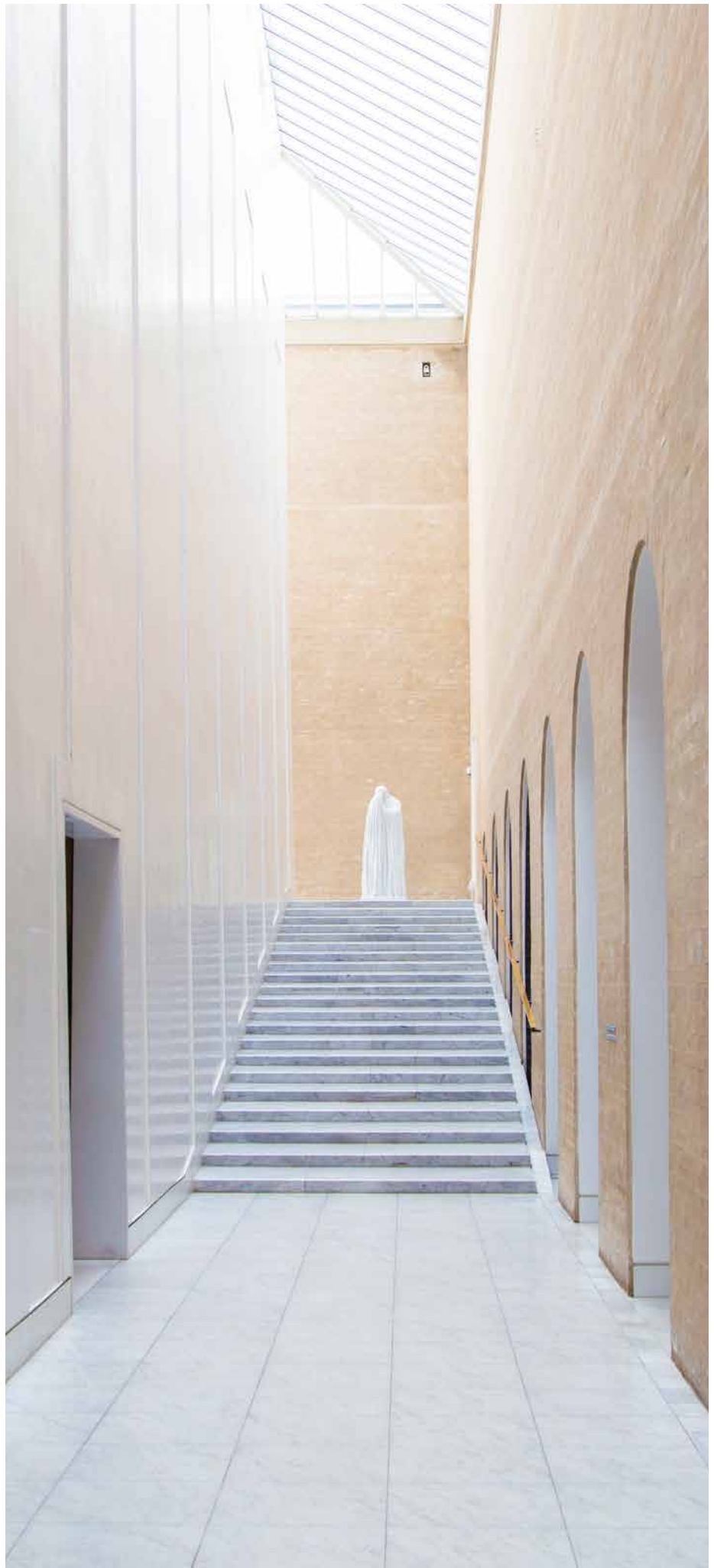


CUSTOMER OBJECTIVES

- Improve the system overview and reduce system downtime.
- Enhance the museum's comfort performance for staff and visitors.
- Ensure the environmental integrity of the galleries and halls in terms of precise temperature and humidity control.
- Create maintenance capacity to implement additional system improvements.
- Optimise the operational investment.
- Create a robust, real-time reporting function to ensure a prompt response to required system updates, events and alarms.

THE HONEYWELL SOLUTION

- Installed Honeywell's Enterprise Buildings Integrator (EBI) front end to integrate the management and control of the museum's Heating, Ventilation and Air Conditioning (HVAC) and mechanical systems onto one common platform in order to access energy management data and to easily implement improved control strategies.
- Deployed Honeywell Forge Digitized Maintenance, which is a smart suite of services that makes extensive use of 24/7 automated building monitoring and real-time analytics to enhance Ny Carlsberg Glyptotek's ability to detect faults in building equipment and systems. This, in turn, speeds up response times, helps in the prioritisation of maintenance tasks, reduces running costs, boosts energy savings and increases the longevity of the plant.
- Used the data to develop tangible Key Performance Indicators that drive customer outcomes, including comfort performance and the environmental integrity of the galleries and halls.
- Moved to a flexible maintenance schedule that focused on maintaining overall performance, rather than ensuring a specific asset was visited a pre-determined number of times.





BUSINESS OUTCOMES

- Real-time facility data supports increased operational performance, optimal efficiency, and maximises uptime to impact the bottom line.
- Honeywell Forge Digitized Maintenance analytics revealed several opportunities for immediate improvement including changes to control cycles and manual operations, and identified defective valves and pumps that required replacing before impacting the museum environment and its visitors.
- Optimising the control strategy and on-site plant has boosted Ny Carlsberg Glyptotek's comfort performance to 98% from a pre-installation level of around 55%.
- Better-informed decision making and the move to a predictive maintenance strategy has freed up around 20% of maintenance capacity, which is used to address other site requirements. This makes the team even more productive and generates greater value from the same level of investment.

For more information

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