



**HONEYWELL
FORGE**

A SUSTAINABLE PIECE OF HISTORY

Honeywell Helps the Australian National Maritime Museum Save Energy

Case Study



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...on opening the scuttle in my
cabin, I perceived an aromatic
odour, as of spicy flowers.
More from the back, and going
out to announce the fact, I met
a gentleman coming into the
cabin, who said 'Come on deck
and smell the food!' People could
not at first believe it, but there
it was, strong and delicious...
something like the smell of a
hayfield, but more spicy. I expect
it is the yellow rhizome which my
brother Richard said we should
avoid in the diet.

'OUR FIRST PORT of call was
in Western Australia, up
the north, Carnarvon. Then
I thought to myself, if this
is Australia - because the only
reception we got was a black
crow on the fence post,
and I think we had to walk
something like five miles

THE FUTURE OF ENERGY

FAST FACTS

12% initial savings on energy consumption*

19K+ square meters of floor space

4.5% more savings due to ongoing automation**



CURATION OF THE SEA

The Australian National Maritime Museum (ANMM) is host to famous maritime collections, exhibitions, research, and archaeology work - all stored in three buildings, covering more than 19,000 square meters of floor space.

Located in Darling Harbour, Sydney, this unique museum presents a changing program of stimulating exhibitions and events to share Australia's maritime history - connecting the stories, objects, people, and places that are part of the country's narrative.

CONSERVING HISTORY (AND ENERGY)

ANMM embarked on a modernization program to optimize conditions in the museum, as much of the existing building equipment and infrastructure were still original from the building's construction in 1991.

With a focus on conservation, ANMM has spent much of the past 10 years implementing programs to enable more sustainable operations to reduce carbon emissions and cost.

To preserve its collection, the display areas have tight environmental requirements. Due to these requirements, there is a limitation to what can be achieved through optimization to enable savings.

PARTNERS ON DECK

Honeywell partnered with the Museum on their modernization program. Working together over for the last two years, ANMM upgraded its control systems, IoT sensing devices, installed new cooling towers, and generally upgraded the existing plant.

In August 2020, to further drive efficiencies within building operations, the museum implemented Honeywell Forge, our Enterprise Performance Management solution. Honeywell Forge provides powerful connectivity and insights for autonomous optimization within the facility.

Honeywell Solutions Installed

- Enterprise Buildings Integrator (EBI)
- Honeywell Energy Manager (HEM)
- Comfort Point Open BMS Controllers
- Honeywell Forge Energy Optimization
- Honeywell Forge Predictive Maintenance

THE BENEFITS

Through the initial modernization program, the museum was able to realize **12% savings on their energy consumption**, which was achieved through BMS optimization and upgrades over a 9-month period.

On top of the initial savings realized through modernization program, with the implementation of **Honeywell Forge Energy Optimization** the museum has been able to further **reduce energy consumption by 4.5%** by using AI-powered analytics to automate HVAC controls.

“ I am very happy with how open EBI is, and how easy it is to get access to my facilities data to provide to 3rd parties as required and with the savings realized through the BMS optimization and modernization program, it helped drive the business case to implement Honeywell Forge Energy Optimization, which has enabled even further energy savings across the facility.”

– Craig White
Building Services Manager
ANMM

* Honeywell analysis over 9 months compared to same period in previous year.

** Honeywell analysis. Daily average since installation.



Honeywell Building Technologies

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**THE
FUTURE
IS
WHAT
WE
MAKE IT**

Honeywell