



Photo: Sydney Opera House/OEH

Our aim is to be as bold and inspiring as the Opera House itself.

Louise Herron
CEO, Sydney Opera House

Sydney's iconic public buildings: shining examples of energy efficiency

Iconic buildings of Sydney, ranging from public spaces to art galleries and museums, are essential spaces that contribute to the cultural enrichment of NSW.

Public building owners and tenants are realising that energy efficiency can reduce energy bills by as much as 60 per cent annually with savings going directly to the bottom line, and also improve the experience for visitors.

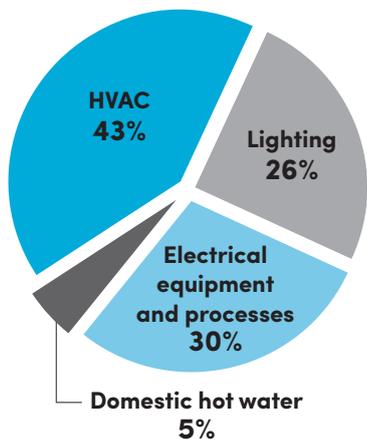
The Sydney Opera House, Luna Park, the Australian Museum, Art Gallery of NSW and Australian National Maritime Museum are among a growing group of Sydney public buildings that have significantly increased their energy efficiency. These iconic Sydney buildings are enjoying combined total savings from their energy efficiency actions of \$1 million per year.

Sydney Opera House

Savings: \$130,000 a year

A major upgrade of the Sydney Opera House Concert Hall lighting system has reduced energy use by 75 per cent, boosted staff safety and improved the venue experience for both performers and audiences. The upgrade has also reduced maintenance time by about \$250,000 a year that can now be diverted to more productive tasks. The installation of variable speed controls (VSDs) to the heating, ventilation and air conditioning system (HVAC) fans and pumps to better regulate its operation has improved the comfort of more than 1.5 million people who visit the Opera House every year.

Typical energy use in public buildings



Luna Park Sydney

Savings: More than \$250,000 a year

Luna Park Sydney undertook improvements to its HVAC system and a complete site lighting upgrade, replacing over 28,000 lights with energy efficient LEDs. The lighting improvements have dramatically reduced lighting maintenance work, improved the visitor experience and reduced greenhouse gas emissions by 2,600 tonnes per year. Luna Park Sydney is now looking for more ways to reduce its energy consumption.



Australian Museum

Savings: around \$150,000 a year

A major HVAC upgrade coupled with better climate control systems in collections storage areas has reduced the Museum's total energy consumption by more than 18 per cent, and permitted it to bid for world-class exhibitions, such as the recent Aztecs exhibition, which require the highest standards of environmental conditions. The Museum also installed a 12.5kW solar power system to its Research Institute building.



Art Gallery of NSW

Estimated savings: \$88,000 a year

A HVAC optimisation involving chiller upgrades, reconfiguration of the cooling towers and installation of variable speed drives to pumps and motors, is expected to reduce the site's energy usage by more than 12 per cent, improve visitor comfort and reduce HVAC maintenance.



Australian National Maritime Museum

Savings: \$90,000 a year

The installation of variable speed drive units to all the Museum's ventilation fans allows them to run 20 per cent slower during milder months. Meanwhile a lighting upgrade to LEDs in the main building and Wharf 7 building is not only saving energy but making the workplace safer for employees and reducing greenhouse gas emissions by 500 tonnes a year. The Museum has also installed power factor correction to further reduce energy use.



TAKE ACTION

OEH has tips, guides, tools, case studies, training courses and experts to help building owners and tenants reduce their energy use. Visit us today to learn more.

To find out more about saving on your energy costs, contact the Energy Efficient Business team.

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CALL

1300 361 967 (ask for the Energy Efficient Business team)

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