CASE STUDY

CLIENT
Art Gallery of NSW

PROJECT
Chillers Upgrade

Government Rewards for Chillers Upgrade

Over $100K in funding through the NSW Energy Savings Scheme

15% saved p.a. in electricity costs

1,200 tonnes of CO2 emissions averted p.a.

THE CHALLENGE

To ensure a cost-effective and reliable method of continually maintaining temperature and humidity conditions for the ongoing preservation of $1 billion worth of artwork, the Art Gallery of NSW replaced two old rotary chillers with high-efficiency, variable speed centrifugal chillers.

To qualify for government funding to offset the cost of the upgrade, energy savings needed to be reliably quantified using recognised but complex measurement and verification principles.

THE SOLUTION

Energy Conservation's Measurement and Verification services enabled the Gallery to precisely identify and report the improved performance of the upgraded system.

By examining electricity, climate and visitor information data, Energy Conservation developed a modelling system to enable the Gallery to accurately verify its significant energy savings and apply Energy Savings Certificates as financial rewards.

THE OUTCOME

The Gallery now saves at least $140,000 per year in electricity costs through a usage reduction of 1,200 mega-watt hours, which equates to 15% of all consumption, and 1,200 fewer tonnes of annual CO2 emissions.

In addition, through the NSW Energy Savings Scheme and the creation and selling of over 12,000 Energy Savings Certificates, more than $100,000 in funding has been rewarded to the Gallery for establishing high-efficiency initiatives.

ENERGY CONSERVATION

Contact us

Energy Conservation
4.06/55 Miller Street PYRMONT NSW 2009
(02) 9660 9997
savings@energyconservation.com.au
www.energyconservation.com.au