



ENGINEERING HOUSE

ENERGY PERFORMANCE CONTRACTING

Solutions in lighting, water and HVAC management

CASE STUDY



ENGINEERS
AUSTRALIA

ENGINEERS AUSTRALIA

CANBERRA

The CEO of Engineers Australia is undeniably pleased with the refurbishment “The new building is a symbol of the state of the Engineers Australia today, just as the organisation is moving with the times, so must the premises from which we operate”.

Engineering House, located on National Circuit in Barton, Canberra, is the national headquarters of Australia’s peak engineering body, Engineers Australia.

It is Australia’s second largest professional body with over 70,000 members. The headquarters building has recently undergone a major refurbishment designed to take the building into the 21st century. Cox Humphries Moss designed the refurbishment, retaining many of the previous features also added an atrium as well as two additional floors of office space for rental.

As part of the refurbishment, an Energy Performance Contract was let to Energy Conservation Systems (ECS) to improve the energy efficiency of the existing refurbished building. This is the first time an EPC has been used in with a mix of existing and new building and presented many challenges.

In the existing areas, obsolete lighting was replaced and the system upgraded to modern day standards, lighting controls

based on occupancy of the floors was installed for greater energy efficiency.

The HVAC system was also upgraded to provide additional capacity and greater flexibility. Water Savings and Power Factor Correction were also included in the contract to further enhance what is now a modern, well located building.

KEY OUTCOMES

ENERGY SAVINGS

\$42,000 PER ANNUM or 106,400KWH P/A

GREENHOUSE GAS SAVINGS

107 TONNES CO₂ PER ANNUM

PAYBACK

5.6 YEARS

KEY SOLUTIONS

ECS LIGHTING CONTROL SYSTEM AND LIGHTING UPGRADE. HVAC UPGRADE, POWER FACTOR CORRECTION AND WATER SAVING SYSTEMS.



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