

New models are better than old boilers

Resource Efficiency Case Study

 Cleaner Production 

Project Overview

PARTNER

The Victoria Hotel

OBJECTIVE

To reduce operational costs through improved water and energy efficiency in hot water systems and toilets

HOW THE SAVINGS WERE ACHIEVED

- Retrofitting water efficient toilets and showerheads
- Replacing hot water boilers with energy efficient boiler units

TECHNOLOGY UTILISED

Condensing boilers, dual-flush toilets and 3-star showerheads

WATER SAVINGS

4.58 million litres of drinking water per year

ENERGY SAVINGS

113.52 gigajoules of gas per year, which is equivalent to 5.8 tonnes of greenhouse gas emissions, or 116,000 black balloons.

TOTAL PROJECT COST

\$1,578,330

PROJECT FUNDING

\$97,000 from City West Water



The Victoria Hotel
MELBOURNE

The Victoria Hotel is a historic landmark hotel in the centre of Melbourne's central business district. Operating since 1880 – just 45 years after Melbourne was founded – it is one of Melbourne's original hotels. Having been the first hotel in Melbourne to offer electric lights in its guest rooms many decades ago, the Victoria Hotel will once again be an industry leader by becoming the first hotel in Melbourne to recycle shower water for toilet flushing.

More than 32 million litres of drinking water are used at the hotel every year, the majority of which is attributed to the guest amenities. Having already embarked on a total renovation and re-design of its guest rooms – reducing from 464 rooms to approximately 370 in the process – to improve guest

comfort and the overall hotel experience, management decided to guard against future rises in the cost of water by installing dual piping from showers to water tanks. This will enable shower water to be captured and used for toilet flushing and will save more than 2.5 million litres of water per year.



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Water use has already been cut by replacing single-flush toilets with water efficient dual-flush toilets, retrofitting water efficient showerheads as part of City West Water's Business Showerhead Exchange Program, and replacing the existing boilers with new energy efficient boiler units, which will also improve gas efficiency by 50%. The new boilers have a circulating ring main system,

instead of the previous dead-end system, which means warm water is continuously available in every room. This will stop water from being wasted as guests will no longer have to wait for warm water before taking a shower.

Due to the enormous potential for improvements to the hotel's overall resource efficiency, along with a target to reduce its

carbon footprint, City West Water agreed to contribute \$97,000 towards the project.

The Victoria Hotel's proactive approach to improving its resource efficiency will not only ensure that the hotel protects itself from future water and energy price increases, but will also contribute significantly to the hotel achieving its vision of a 5 Star Green Star hotel rating.



Contact

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