

# Renewable Energy and Environmentally Sustainable Design Case Studies

## Treasury Place – Solar Hot Water

**Site:** Melbourne CBD

**Dates:**

- Design Phase Commencement: March 2004
- System Commissioning Phase 1: June 2004
- System Commissioning Phase 2: July 2005

**Client:**

Victorian Government Property Group

**Project Goals:**

Install quality solar hot water systems as pre-heaters to existing gas-fired storage tanks.

**Project Features:**

The Victorian Government Property Group (part of the Department of Treasury and Finance) has a comprehensive strategy to improve the sustainability of the current and future stock of Government office buildings.

A key feature is the installation of the solar hot water pre-heaters on five landmark buildings:

**Phase 1:**

- 1 Treasury Place
- 1 Macarthur Street
- 55 St Andrews Place

**Phase 2:**

- 2 Treasury Place
- 41 St Andrews Place

The system comprises 22 high efficiency solar collectors and a storage capacity of 2,010 L across the five buildings. High quality insulated stainless steel tanks and insulated pipe-work have been used to ensure maximum contribution and retention of the sun's energy. The solar hot water is used in hand basins, kitchens and showers.

While these systems are not large – office buildings do not use a great deal of hot water – the significance is that they are amongst the first commercial solar hot water systems to be installed on high-rise buildings in Melbourne.

Important issues included access to site, wind loading, frost protection and interruption of water supply to an



Treasury Place



55 St Andrews Place



1 Macarthur Street



1 Macarthur Street

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operating building.

## Project Team:

- Lachlan Bateman, Project Engineer, Going Solar
- Stephen Ingrouille, Principal, Going Solar
- Brent Papadopoulos, Installer, Sustainable Plumbing Solutions

## Further Information:

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1 Treasury Place



1 Treasury Place



1 Treasury Place



2 Treasury Place