



## CASE STUDY

100 Christie Street, Saint Leonards

### AT A GLANCE

CLIENT: CBRE

LOCATION: SYDNEY, NEW SOUTH WALES

CBRE COMMISSIONED SEMF TO DESIGN AN ENERGY-SAVING SOLAR PRE-HEATING SYSTEM TO SUPPLEMENT THE EXISTING SYSTEM AND CREATE RESOURCE SAVINGS. SEMF'S SOLUTION INCORPORATED INNOVATIVE FEATURES SUCH AS SOLAR THERMAL COLLECTORS.



Located in St Leonard's Sydney, 100 Christie Street is a contemporary, 12-storey office tower which was completed in 1984 and upgraded in 2005. The building plays host to high-profile tenants from a range of industries.

In early 2008, SEMF was engaged by commercial property developer CBRE to design a new, energy-saving solar pre-heating system to supplement the existing gas-based centralised system and minimise costs. In response to this, SEMF conceived and produced a heating system incorporating innovative solar thermal collectors, which were then installed on the building's roof. These collectors can contribute 209 MJ of energy to the office tower a day.

During the course of the project, we also successfully prepared and submitted a development application to North Sydney Council and obtained approval for the new fixture.

SEMF's new system saves the building the energy equivalent of 120 halogen lights, a fact that significantly reduces its carbon footprint.

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