

# Renewable Energy and Environmentally Sustainable Design Case Studies

## 50 Lonsdale Street (PV)

**Site:** 50 Lonsdale Street, Melbourne CBD

**Dates:**

- Design Phase Commencement: February 2005
- System Commissioned: February 2006

**Client:**

Developer for government offices including Department of Human Services (DHS)

**Project Goals:**

Design and install of a 4kWp PV system on a new inner city high-rise building.

**Project Features:**

4kWp System oriented to the north, which required offset from building orientation.

Building located on north-eastern edge of CBD, so relatively few external shading issues.

Conduit was laid before top slab was poured.

We had to have the proposed position of the satellite dishes moved to prevent shading over the solar panels.

We also needed to ensure clearance of the solar panels from the window cleaning hoist.

**Project Team:**

- Warwick Johnston, Project Engineer, Going Solar
- Lachlan Bateman, Project Engineer, Going Solar
- Steve Cook, Accredited Installer

**Further Information:**

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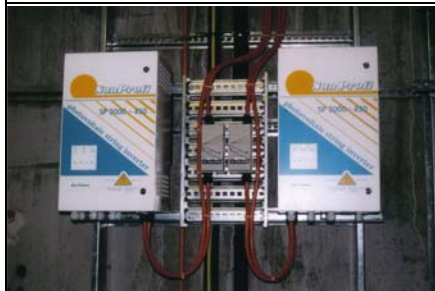
**PV panels on the roof showing cast shadow**



**PV panels on the roof (detail)**



**PV panels on the roof showing mounting frames**



**Inverters**