

Department of Energy Utility Services Award

Bronze Award for reaching 75% milestone and saving emission of harmful greenhouse pollution

Participating in Sydney Water's "Every Drop Counts" program

Water flow regulators, sub meters, water pressure control, flow restrictors, variable speed drive booster pumps and many other water saving initiatives have been implemented

City of Sydney

"Sustainable Destination Partnership"

As a full member, committed to reporting, controlling & minimising greenhouse emissions and participating in achieving the 2030 partnership goals.

Hilton Sydney recognises its environmental responsibility and is committed to improving its performance towards a sustainable future through the following initiatives and protocols in this policy:

- Embrace an environmental strategy that encompasses each and every Team Member via welcome day training and Blue Energy communication meetings.
- Focus upon our key environmental issues, energy efficiency, waste management and reduction, water efficiency, procurement and minimise our carbon footprint.
- Train and provide focus for our team members.
- Measure, benchmark, set targets and continually improve our performance via Hilton's global Lightstay program.
- Continually have active projects to reduce energy, water and waste diversion from landfill sites in place.
- Share best practices and comply with local and relevant international legislation.
- Liaise with our suppliers and business partners to improve their environmental performance via our sustainable procurement policy.
- Communicate our environmental achievements to our guests and team members.
- Support environmental initiatives within the local community.
- Influence land use in harmony with nature and construction by promoting the use of environmental standards in partnership with the WWF. (World Wildlife Foundation)

Hilton Sydney features:

- 1. Fully automated Control System:** Building Management System (BMS) Siemens Direct Digital Control System (DDC) for all Air Handling Units (AHU), Fan coil units (FCU), Variable Air Volume (VAV) with high level interface with the chillers interfaced with the PMS
- 2. Energy Efficient Variable Speed Chillers**
- 3. Fresh Air Economy Cycles:** use of fresh air & reducing mechanical cooling when the outdoor temperature is lower than set temperature.
- 4. Guest room air conditioning:** automatically turns on at check in and automatically turns off at check out.
- 5. Public areas / Function rooms:** Carbon Dioxide Monitoring (CO2) to increase or decrease the amount of fresh air into the building.
- 6. Optimum Start:** minimises total energy consumption during daily start-up of each heating or cooling system by calculating a start time for each system which will bring its respective zone temperature to the boundary of the comfort zone at the time of scheduled occupancy.
- 7. Optimum Stop:** minimises the energy consumption through the daily shutdown of each heating/cooling system by shutting down the system as early as possible before the end of the occupancy, but not as early to let the temp drift out of the specified comfort zone.
- 8. Night Purge:** Minimises energy consumption by using outside air to cool the building prior to occupancy without starting the cooling system.
- 9. Early morning warm-up:** when outside and return air are below 18C, the outside air damper closes until the return air reaches 20C.
- 10. Zero energy band:** heating & cooling sequenced to avoid simultaneous heating & cooling set points. The programme compares space temperatures with high & low comfort limits to control the supply of heating & cooling coils.
- 11. Variable air volume terminals:** air quantity and temperature is controlled through VAV's allowing zoning and efficient delivery of A/C.
- 12. LCD touch pad with Digital temperature display:** temperature, and fan speed control functions in conjunction with the Room Fan Coil Unit Controller in each Guestroom. All rooms are connected to the BMS allowing 3 Energy modes: Comfort / Standby / Night Operation.
- 13. Heat recovery System to Fitness First Pitt Street Platinum:** pool ventilation system.
- 14. High performance glazing Low E:** limiting heat gain during summer & allowing sufficient solar heat in winter.
- 15. LED lighting retrofit:** over 10,000 LED or 97% of lights and lamps have been retrofitted throughout the property.
- 16. Power factor correction capacitors light and power.**
- 17. Computerised monitoring:** control of electricity consumption limiting maximum demand and allowing for load scheduling & shedding.
- 18. Computerised dimming system:** in all Public areas / Function rooms
- 19. Hotel lifts equipped with microprocessor controlled dispatching system:** on demand lift motion. Static converters in lieu of Motor Generator drive sets. During periods of light or nil demand, lifts will establish an idle mode where energy usage is limited.
- 20. Hydraulic services:** energy efficient variable speed drives for water pumping systems, water flow control valves to taps and shower heads limiting water consumption - Thermostatic mixing valves to all guest bathrooms, public toilets, staff and Fitness First Pitt Street Platinum locker rooms limiting hot water temperature as well as hot & cold water consumption reduction of system pressure would also reduce water consumption.
- 21. Rain water capture tanks:** utilized for garden wall irrigation.
- 22. Reuse bed linen and bath towel program:** guests are offered to reuse their bath towels and bed linen to conserve laundry water.
- 23. High efficiency plate heat exchangers:** for domestic hot water to hotel rooms & public areas.
- 24. High efficiency hot water boilers:** for central heating & domestic hot water with optimisation controls installed.
- 25. Energy efficient refrigeration:** (cool rooms & walk in freezers) systems for all kitchens & new energy saving dishwashers.
- 26. Multiple waste recycling streams:** paper, cardboard, glass, plastic, co-mingle, cooking oil, organic and hazardous.
- 27. Renewable energy:** organic recycling from the Pulp Master unit is sent to a Biogas facility to produce renewable energy.