

# Energy Conservation

## Crown's energy efficient lift upgrade



In March 2010 Crown completed the energy efficient upgrade of 13 lifts serving the Crown Towers Hotel. The new KONE lifts incorporate regenerative drive technology, high-efficiency EcoDisk motors, halogen-free cables, LED lighting, car-light and fan saving modes and signalisation dimming.

While lift usage contributes less than 3% of total hotel electricity consumption, with more than 150,000 room nights booked per year, this is still a significant amount.

The total annual energy savings were estimated to be more than 1.2 million kWh representing energy savings of 70%. The total greenhouse gas savings were estimated at 1,500 tonnes of CO<sub>2</sub>, equivalent to the energy required to power 128 Victorian homes or remove 386 cars from the streets.

Crown aims to incorporate this energy efficient technology when upgrading the remaining lifts across the property. We are also keen to introduce similar ideas when reviewing escalator systems.

|                                                              | SCD (DC) Drive (Gearless) | EcoDisk (MX) |
|--------------------------------------------------------------|---------------------------|--------------|
| Regenerative Drive                                           | No                        | Yes          |
| Motor Efficiency                                             | 0.504                     | 0.930        |
| 3 x VIP Lifts Annual Energy Consumption (kWh)                | 700,000                   | 200,000      |
| 6 x Guest Lifts Annual Energy Consumption (kWh)              | 510,000                   | 150,000      |
| 4 x Staff Lifts Annual Energy Consumption (kWh)              | 600,000                   | 180,000      |
| Total annual energy consumption (kWh)                        | 1,810,000                 | 540,000      |
| Total annual greenhouse gas emissions (t CO <sub>2</sub> -e) | 2,200                     | 660          |