

Epworth HealthCare: CASE STUDY



Epworth HealthCare improves their environment whilst reducing energy costs

Epworth HealthCare is Victoria's largest not for profit private health care group, renowned for excellence in diagnosis, treatment, care and rehabilitation. Epworth HealthCare were facing increasing energy usage and consequent energy costs and greenhouse gas emissions.

As a result, Epworth HealthCare engaged Mr. Electric and Energy Makeovers to design and install a replacement lighting scheme for the aging inventory of almost 5,000 fluorescent tubes in eight of its Hospitals located around the Melbourne metropolitan region.



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The Challenge

Epworth HealthCare's highest priority is the wellbeing of their patients so particular care was required at the design stage to ensure that the new LED lights provided good lighting levels whilst maintaining a pleasant and soothing experience for patients.

Installation challenges included the need to schedule works around the needs of local staff and to minimize the impact on both hospital staff and patients in a facility open 24 hours per day, 7 days per week. Additional care was required to be exercised in sensitive rehabilitation and mental health areas to recognize the unique needs of individuals.



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Our solution

Best in class LED lights were chosen to ensure the very best lighting outcomes. Small scale trials of particular products were pre-installed in strategic locations for hospital staff to experience the new lighting outcome prior to the large scale deployment of new LED tubes.

Our expert electricians developed a detailed project plan in close consultation with local staff to minimize the impact of installation activities on both staff and patients. This included very tight time management to ensure that the tubes in individual rooms were able to be changed over in very small windows of time available when the rooms were not occupied.



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Results & benefits

Lighting levels have universally improved whilst the cost of running the tube lights has reduced by more than 50% resulting in an annual energy cost saving of approximately \$170,000.

As the new LED tubes have a design life of more than 50,000 hours, hospital maintenance staff will not need to replace any tubes for a very long time and can spend their time dealing with more important hospital maintenance functions.

Most staff and patients have not noticed the difference in the changeover to LED lighting, as per our goal. However no one will miss the inevitable and annoying flickering produced by fluorescent tubes when they reach the end of their life.

Staff have expressed their thanks to our expert electricians for the sensitivity they demonstrated when working around patients experiencing personal health challenges and hospital staff that are often dealing with very important and urgent matters.



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