

# Case Study

## Interior & Exterior Lighting.

### Epping Secondary College.

A large school in Melbourne's northern suburbs, with students from year 7 through to year 12, Epping Secondary College undertook a lighting upgrade across the entire school. Following an energy usage analysis, significant energy and maintenance savings could be found by upgrading to energy efficient LED lighting to replace the existing lighting. The quality of light would also be improved.

#### Exterior.

The exterior lighting covering walkways, courtyards and large open areas consisted of a mixture of metal halides, incandescent, halogen and CFL globes. These were replaced with LED flood, LED tube and LED bunker light fittings. The higher performing replacements allowed for fewer globes, with the 277 existing lights replaced by only 212.

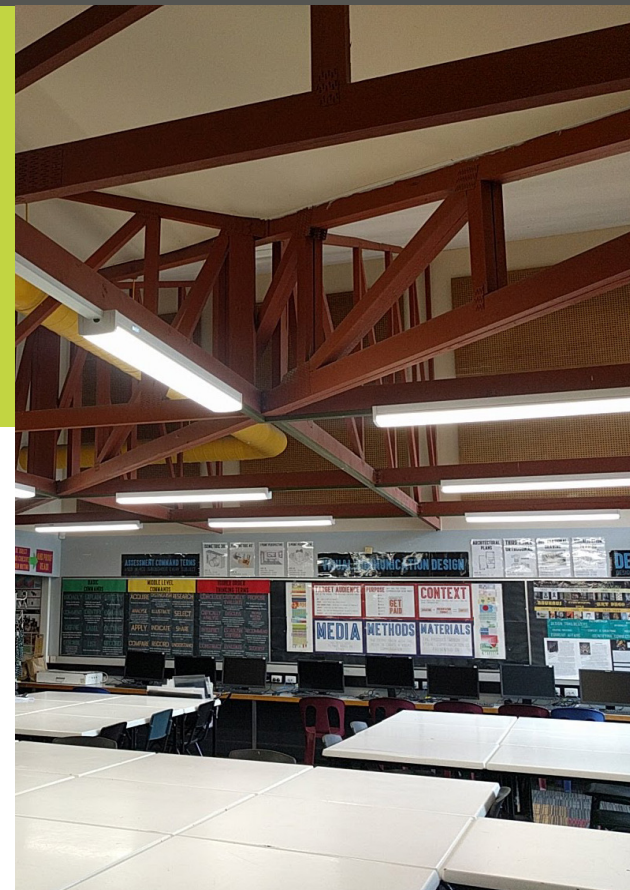
#### Interior.

Throughout the classrooms, library, auditorium, basketball court, offices and hallways the existing lights were upgraded to LED tubes and LED highbays. A substantial reduction in total lights was achieved, replacing 2,224 with just 1,133.

The superior light globes create a more comfortable learning and working environment for the students and teachers. A little known fact is that the LED's produce much less heat allowing a further contribution to comfort and savings through less cooling required.

#### Key Benefits.

- Longer lifetime of LED expected to deliver maintenance savings of \$7,760 p.a.
- Rebates of \$38,400 achieved through Government incentive schemes
- Total payback period of only 3.3 years



### Highlights.



Estimated annual savings  
**\$39,000**



Payback period  
**3.3 years**



Estimated energy reduction  
**60%**