

# Switching floodlights to CFL for immediate power savings

The high seas are an unlikely environment to test compact fluorescent floodlights but Lyttleton-based trawler operator Ocean Fisheries says CFL technology has solved an issue that has dogged its fleet for years.

Fleet operations manager Tim Stark says company trawlers are routinely fitted with metal halide floodlights which he says have proved reliable in all but one respect.

“Metal halides are sensitive to voltage fluctuations and tend to shutdown when trawler crews engage winch motors to set and retrieve nets.

“Crews are plunged into darkness while trying to work in rolling seas and have to wait for the metal halides to cool and re-strike.”

Stark says compact fluorescent floodlights are not affected by power fluctuations and have performed faultlessly since being fitted to its trawler fleet three months ago.

“Not only are the lamps reliable, the ‘EnergySaver’ fittings we’ve installed have shown no sign of deterioration in the extreme weather conditions. Our trawlers spend 120 hours a week at sea so if there was a weakness we would have found it.”

Grant Simpson of Auckland’s PowerSave Light Company says the company’s EnergySaver floodlights are specifically designed for dusty, wet and exposed environments where ingress protection is critical.

“Rated IP 65, our EnergySaver fittings are manufactured from tough die-cast aluminium and are equipped with marine-grade stainless steel clips, toughened-glass reflector lens and a weather-tight cable gland.”

Designed as a general purpose and security floodlight, EnergySaver fittings are ideal for car parks, loading bays, warehousing, heavy industrial sites and signage illumination, says Simpson.



**EnergySaver floodlights withstand harsh environments, have no re-strike delays and slash power costs**



## Upgrade existing fittings

While PowerSave Light supplies complete fittings (including industrial CFL highbays and lowbays), the company also offers energy efficient upgrades with a complete kit to switch HID fittings to high wattage industrial compact fluorescent lamps.

“You can easily fit our new electronic control gear to most HID fittings so you can slash your customers’ power bills without the cost of having to replace their fittings.”

There are two main options.

“A 65 Watt CFL will typically replace a 250 Watt HID while the 120 Watt CFL will replace a conventional 400 Watt metal halide or 500 Watt halogen lamp.

“In both cases the CFLs will return electricity savings of better than 60 percent. The electronic ballasts used in our EnergySaver floodlights are also extremely efficient with a start-up draw of just 0.5 Amps compared to 4 Amps with conventional wire-wound ballasts.”

Simpson says the energy savings achieved with its CFLs do not come at the expense of light quality or operating performance.

“To the contrary. Our industrial CFLs have a colour temperature of 6400 Kelvin and a

CRI better than 80Ra. They also have a power factor of .99 compared to a typical HID power factor of .75.”

He says by replacing or retro-fitting a 400 Watt conventional metal halide lamp with a PowerSave 120 Watt CFL, and allowing for minimal HID ballast losses, customers will achieve an immediate 72 percent electricity saving.

“If a company replaced ten conventional 400 Watt floodlights with our 120 Watt CFL lamps and operated those lamps 12 hours a day for a year at a Kw/h rate of 12 cents, they would save \$1,682.

“Assuming a seven percent increase in electricity costs over a five-year period – this would save \$9,671 and \$23,212 over ten years.”

## Additional savings

Because CFLs re-start instantly and don’t have to cool down to re-strike, they offer huge potential for further cost-savings through the use of light and motion sensors.

“If you link two out of every three CFL floodlights to motion sensors leaving just one in three floodlights permanently lit, you can maintain a safe and desirable level of lighting which ramps up instantly when more light is needed.

“The savings are considerable. The cost of operating three CFL units in such a configuration is only \$79 a year compared to \$693 for three equivalent permanently-on HID units.” ■

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