



# The Scarlet hotel

– where glamour and green meet

The Scarlet is a luxury eco-hotel in Cornwall, England that demonstrates that luxury and environmental sustainability can go hand-in-hand.

With a spectacular cliff top location, the hotel has a raft of eco credentials including thermal solar panels, grey water recycling, rainwater harvesting, a biomass boiler that produces all the hot water and heating and a sea thrift planted roof.

It's this attention to sustainable detail that makes The Scarlet unique. Yes, it takes its eco responsibilities very seriously but it doesn't impede the five-star experience.

Not many hotels can boast a chemical-free fresh water outdoor pool filtered by reeds or two log-fired hot tubs perched on the edge of a cliff.

In keeping with this remarkable green ethos, the hotel wanted a lighting scheme that would embrace best environmental practices while remaining in harmony with the hotel's surroundings.

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## Client requirements

The design brief called for an energy efficient lighting scheme that would reflect the hotel's pioneering approach to environmentally sustainable design while still offering guests unparalleled ambience and a sense of opulence.

While recognising that the lighting scheme should be sympathetic to the hotel's dramatic location and eco credentials, The Scarlet also wanted to achieve striking architectural and mood lighting.

“ The lighting system skillfully incorporates functionality, energy efficiency and sophisticated ambience. ”



## The Philips Dynalite solution

The Philips Dynalite solution was to install an innovative lighting system that would meet stringent environmental, functional and architectural criteria.

Guiding the development of the lighting system was the availability of lots of natural light.

### Intelligent design

Philips Dynalite's energy-saving integrated lighting control system provides pre-set lighting scenes in public areas and mood lighting in bedrooms, all controlled by a combination of wall panels, remote controls and motion sensors.

Energy-saving fluorescent and LED luminaires are integral elements of the lighting design.

The lighting system challenges the expectation that hotel lights need to be on all of the time by making extensive use of multipurpose sensors to ensure lights are turned off when not required.



“ You don't need to sacrifice luxury to achieve high levels of energy efficiency. ”

## Products and technology used

The hotel's fluorescent and LED circuits are controlled by a combination of Philips Dynalite reliable and versatile relay and ballast controllers.

The backbone to the lighting control system is Philips Dynalite's sophisticated peer-to-peer communications serial bus network, DyNet.

### Setting the scene

Philips Dynalite universal sensors help ensure that lighting is only activated when areas such as the library are occupied and when ambient light levels fall below a set threshold level.

Two Philips Dynalite touchscreen control panels allow the lighting moods of the public areas to be set by the hotel staff. Discreet user interface wall panels allow local user control for some public areas and all the guest rooms.

### Mood lighting

Each guest room has two engraved and backlit control panels that allow guests to match their mood from a choice of seven lighting scenes – 'ambient', 'bright', 'relax', 'bath', 'night', 'balcony', and 'all off'.

In order to measure actual power consumption – and to facilitate real-time monitoring for maintenance – of the lighting system, The Scarlet is considering adding Philips Dynalite's Envision software to the lighting infrastructure. This will enable fine-tuning of the system over time to achieve further energy savings in the future.



“ Philips Dynalite has delivered a lighting system that effectively enhances the eco-credentials of this luxury eco hotel. ”

## Key client benefits

The lighting system delivers both the environmental and architectural outcome the hotel was seeking.

The lighting system complements the unique and opulent hotel and allows it to achieve cutting edge sustainability.

### Impressive energy savings

Importantly, the Philips Dynalite lighting solution shows that you don't need to sacrifice luxury to achieve high levels of energy efficiency.

Where a conventional hotel typically achieves lighting efficacy of 10 watts per square metre, the Philips Dynalite lighting system has achieved an incredible internal lighting efficacy of just 3.36 watts per square metre – representing just 34 per cent of the energy use of a conventional design.

The hotel has also achieved significant energy savings with the garden lighting. Using discreet 1 watt LED fittings, a subtle and beautiful garden lighting design has been achieved using less than 100 watts in total.





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