

COASTLINE HOUSING PURSUE SUSTAINABILITY GOALS WITH LED LIGHTING

Coastline Housing Ltd has recently implemented a low energy lighting strategy at their offices in Redruth to help reduce energy costs and improve sustainability.

An initial lighting survey was carried out to determine the specification of existing indoor electric lighting and take spot check measurements of desk illuminance. Total lighting demand across 330 fluorescent luminaires was estimated to be 19.3 kW. Overall annual lighting electricity consumption was estimated to be approximately 42,650kWh, equivalent to more than 25% of the building's electricity requirements. This is typical of office environments.

The report found that LED lighting could reduce electricity consumption by more than 20,000kWh per year. With projected annual savings of approximately £3,000 the scheme is expected to provide a payback of less than 5 years, with annual CO₂ savings in the order of 7 tonnes.

Coastline is no stranger to energy efficiency investments, having already installed an 80kW solar PV system at their offices in 2015. They also strive to reduce fuel poverty and carbon emissions across their housing portfolio.

The LED lighting scheme was implemented in August 2018 and has provided immediate savings, along with positive feedback from employees regarding light colour and intensity.

Ralph Retallack, Energy Efficiency Project Manager at Coastline commented: "Coastline were approached by Cornwall New Energy to undertake a no cost review of the



The review was just what we needed and we embraced the opportunity; why wouldn't you?

Adam Longfield ([BRE](#)) and Ralph Retallack ([Coastline Housing](#))

business operations at Coastline House, with the aim of identifying opportunities for improving both sustainability and energy efficiency. In common with many organisations we were aware that we could be doing better, but were not sure how best to move forward when presented with so many choices. The review was just what we needed and we embraced the opportunity; why wouldn't you?

We knew that a change to LED lighting would be beneficial but the comprehensive survey and following report presented us with a clear business case to proceed and we are delighted to have now taken this step which will make savings year on year.

A second key finding was the implementation of electric fleet vehicles and we are currently in process of taking this forward and planning implementation during 2019. Watch this space!

POTENTIAL CNE CARBON SAVINGS

CNE provides SMEs with estimates of the carbon savings that could be achieved if the technology proposals in our work is implemented. To date, the CO₂ savings would be equivalent to planting 1,972 trees.

CNE can provide carbon and energy-related consultancy and





CORNWALL NEW ENERGY IN NUMBERS

13

RESEARCH FOR 13
NEW PRODUCTS/SERVICES

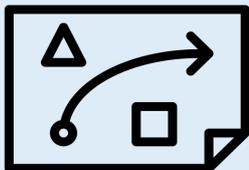
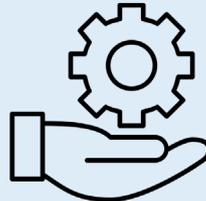


119 SMEs
SUPPORTED

119

4

4 PRODUCTS/SERVICES
MARKETED



13 START-UPS
SUPPORTED

13

COMING SOON

WORKSHOP:

'Combined Heat and Power system tour and discussion' with [ZLC Energy](#)

13th Feb, 10:00 - 14:00,
China Fleet Country Club, Saltash

27th Feb, 10:00 - 14:00,
Merchant Manor Hotel, Falmouth

WORKSHOP:

'Anaerobic Digestion workshop' with [Qube Renewables](#)

13th Mar, 9:30 - 14:00, Health and Wellbeing Innovation Centre, Truro

WORKSHOP:

'EV charging workshop' with Matt Trevaskis from [Drivenergy](#) and Neil Broadbank from [RAW Energy](#)

27th Mar, 9:30 - 14:00, Health and Wellbeing Innovation Centre, Truro

Seminars are free to attend and open to businesses that are registered on CNE project.

For registrations email: a.nicholas@prp-co.uk

SMALL AND MEDIUM-SIZED ENTERPRISES

OVER 100 SMES SUPPORTED IN 2018

CNE supported over 100 SMEs in 2018 to reduce their reliance on Fossil Fuels.

In 2018, CNE continued providing free support to SMEs in Cornwall and the Isles of Scilly, to develop, promote and install renewable energy solutions and services. The project is on track to exceed the target number of SMEs assisted by almost 12%, making 2018 a success for the project partners and Cornish SMEs alike.

NEW SMES ENROLLED

(Click logo to be taken to website)



GRADUATED SMES

(Click logo to be taken to website)



GOONWINNOW FARM & ESTATE

