

# CORNWALL NEW ENERGY

NEWSLETTER FEBRUARY 2019

[cornwallnewenergy.com](http://cornwallnewenergy.com)

## P150KW PV ARRAY INSTALLED AT NEWLYN FISH MARKET FOLLOWING CNE SUPPORT

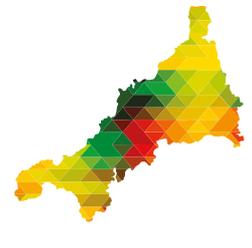


Following CNE's and CPC's support, a 150kW PV array was installed on the roof of Newlyn Fish Market. The system has the ability to monitor each individual panel and sits on its own string; this was deemed essential to limit system losses through interaction with the local seagull population. It is expected that 78% of the energy generated will be used on-site, saving 38.6 tonnes of CO<sub>2</sub>e per year.

As a delivery partner of the Cornwall New Energy project, **Community Energy Plus** (CEP) is supporting local small and medium sized enterprises (SMEs) and charities in Cornwall and the Isles of Scilly. **Newlyn Fish Harbour** is home to one of the largest fishing fleets in

the country, with around 700 vessels and 1,200 fishermen. It is currently being transformed to update facilities and services and support the development of a sustainable fishing industry. This transformation includes the building of a new fish market building which provides a fully refrigerated and competitive selling platform.

**Community Power Cornwall** (CPC) is a Registered Society owned by its members and aims to be environmentally, socially and financially useful. The cooperative enables communities to take ownership of their energy infrastructure, returning profits to the local economy to be reinvested locally in clean energy generation.



Produce electricity on site and save **£50,000** a year

This month Cornwall New Energy visited the China Fleet to get an inside look at how the new combined heat and power (CHP) system operates and what the journey has been like for the general manager Dean Bennett.



Since installing our CHP at the China Fleet Country Club the unit has generated nearly half a million kWh of power in its first year and saved around £54,000 in energy costs. The return of investment proposal was very accurate and we will see a full return in under 3 years

Dean Bennett,  
Managing Director,  
China Fleet County Club.

## CORNWALL NEW ENERGY IN NUMBERS

15

RESEARCH FOR 15  
NEW PRODUCTS/  
SERVICES



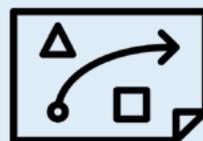
6

6 PRODUCTS/  
SERVICES MARKETED



123 SMEs  
SUPPORTED

123



14 START-UPS  
SUPPORTED

14



## SMALL AND MEDIUM-SIZED ENTERPRISES



### COMING SOON

#### WORKSHOP:

Anaerobic Digestion workshop  
with [Qube Renewables](#)

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

CNE will be hosting a number of other workshops over the coming months, topics will include: **commercial PV** and **air source heat pumps**. Details of these workshops will be available over the next few weeks.

Seminars are free to attend.

For registrations email:  
[a.nicholas@prp-co.uk](mailto:a.nicholas@prp-co.uk)

### CORNWALL NEW ENERGY HOSTS GROUND SOURCE HEAT PUMP SEMINAR

SMEs are increasingly looking to reduce their reliance on fossil fuels, to cut energy bills and emissions. Cornwall New Energy is hosting a series of workshops to assist with this transition.

On the 16 January CNE hosted its second seminar in this series: ground source heat pumps (GSHP). The seminar began with a presentation from George Gillow of Kensa Heat Pumps. Based in Cornwall and Devon, Kensa is the UK's only GSHP manufacturer and has over 5000 heat pumps in use. He outlined the benefits of Shared Ground Loop Arrays (SGLAs) compared to traditional district heating. SGLAs are a form of ultra-low temperature heat networks connecting small ground source heat pumps inside each dwelling, offering a scalable and flexible solution which mimics a traditional gas framework.

This was followed by a presentation from Neil Farrington from Community Energy Plus, outlining the finance options for low carbon

heat networks, as well as the associated challenges. A mixed ownership of these networks offers a new model to facilitate a fair deal for all parties:

1. Costs of the heat distribution system are met by the house builder.
2. Costs of the heat pump unit in each dwelling are met by the owner/housing provider or owned by a community energy entity whilst running costs are met by the occupier.
3. Costs of the ground loop array are met by a community energy organisation in return for Renewable Heat Incentive (RHI) revenues and potentially a low cost annual service charge.

This event provided a great opportunity for SMEs interested in GSHPs to understand the benefits and challenges associated with this type of technology. It also provided them with effective tools to enable the potential installation, such as shared finance models.

### NEW SMEs ENROLLED

(Click logo to be taken to website)

Pristine Linen



Springfield Fun Park



Dinham Farm Holidays



### GRADUATED SMEs

(Click logo to be taken to website)

Bennett Boatyard



Dibble & Grub

DIBBLE & GRUB

Mother Ivey's Bay

