

zlc energy
ZERO LOW CARBON

Case Study | Commercial

About the client

St Austell Brewery has been brewing beer and real ale in Cornwall since 1851 and runs over 170 of the most popular pubs, inns and hotels in the South West. Their award winning ales such as Tribute, Proper Job, & HSD.

What was their goal?

To 30% carbon reductions over a 5 year period.

To control rising energy costs and infrastructure issues.

To address Carbon Reduction Commitments (CRC)

How did we help?

Our team assessed the feasibility of all potential solutions for the reduction of carbon across the Brewery's estate including energy efficiency measures, fleet fuel reduction and all renewable energy options.

This led to:

The installation of two large solar PV systems to power the core brewery sites
a flagship solar heating system on the County Arms Hotel.

Lighting replacement in distribution centres

Development of a monitoring and display system

Benefits for the client

Cornwall Sustainability Awards 2009: Overall Winner
& Best Managed Large Business

Meet CRC obligations

10% typical Return on Investment

About Us

ZLC Energy are a team of Chartered Engineers, PRINCE 2 project managers and fully qualified installers with decades of experience in the industry. We are dedicated to providing zero or low carbon solutions for homes and businesses throughout the United Kingdom. We are able to offer a full and integrated range of renewable energy technologies, which means that we will recommend only solutions that we believe are right for you.



Project: St. Austell Breweries
Site: Brewery, Distribution & County Arms
Technology: Two 50 KWp Roof Mounted Solar PV
Solar Thermal System
Ref: zlc/bus001

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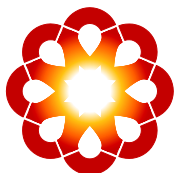
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About the client

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What was their goal?

To build on the success of our previous Solar PV installs & control rising energy costs and infrastructure issues. Their aim is for a 30% carbon reductions over a 5 years.

How did we help?

Our team assessed the feasibility of all potential solutions for the reduction of carbon across the Brewery's estate including energy efficiency measures, fleet fuel reduction and all renewable energy options. This led to the installation of 150KW Solar PV at the Brewery's distribution centre.

Benefits for the client

Cornwall Sustainability Awards 2012: Best Managed Large Business plus meeting CRC obligations. St Austell Brewery can also expect a 20% typical Return on Investment and are well on target to meet their aim for 30% carbon reduction over 5 years.

Testimonial

The service from ZLC Energy has been excellent throughout with every deadline being kept without fail. ZLC Energy were in control so we didn't have to stress about the different stages e.g. Scaffolding, Road Safety, Site Safety, Contractors. They also were very professional in dealing with certificating the PV and gaining all the relevant paperwork, again something we didn't have to stress about. They kept us informed throughout the whole project with either regular meetings or correspondences so we always knew at what stage we were at. The sign off too was very well handled and explained in full by Mark the MD who personally walked us through all the on site equipment and monitoring software. I would recommend ZLC Energy for any PV project needed in the future.

Robin Freight DipCEA Compliance Officer St Austell Brewery Co Ltd



Project: St. Austell Breweries
Site: Brewery, Distribution & County Arms
Technology: 150 KWp Roof Mounted Solar PV



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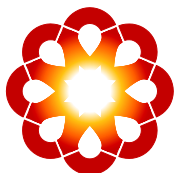


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Project: David Salisbury Joinery Ltd.
Site: Main Factory, Bennett Road, Highbridge
Technology: 150 KWp Roof Mounted Solar PV



About the client

David Salisbury manufactures and installs hardwood bespoke conservatories and orangeries exclusively from carefully selected timber. They create some of the finest quality bespoke conservatories, orangeries and garden rooms in the UK. The company is ISO14001 accredited and has a biomass boiler which uses waste wood to heat the factory and dry paint.

What was their goal?

To invest capital with less than 5 year return
To address Carbon Reduction Commitments (CRC) & support ISO14001 EMS Qualification. To control rising energy costs.

How did we help?

Our team assessed the feasibility of all carbon reduction solutions for the factory including efficient lighting, motor controls, energy storage and all renewable energy options.

This led to the installation of a 150KW solar PV system to power the factory. We are now developing the case for motor efficiency, efficient lighting and energy management.

Benefits for the client

Enhanced Environmental Performance & PR
Meet CRC obligations
20% typical Return on Investment plus over 30% cut in energy costs.

To watch the PV installation, go to
<http://www.youtube.com/dsconservatories>

Testamonal

“ZLC Energy worked very efficiently with our staff and especially our Health and Safety Officer to make everything run smoothly. From initial consultation to final testing was little more than 6 weeks with very little disruption to the business.”

David Salisbury, Managing Director, David Salisbury Conservatories.

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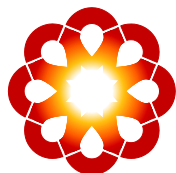


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Project: Fermoy's Garden Centre
Site: Totnes Road, Ipplepen, Newton abbot
Technology: 250 KWp Ground Mounted Solar PV
Ref: zlc/bus004



About the client

Fermoy's Garden Centre is a large independent garden centre near Newton Abbott. The site includes a farm shop, deli, pet shop, butchers and café. The site uses approximately 2GWh electricity per year.

What was their goal?

To control rising energy costs
10% energy and carbon reduction (128T/yr)
To invest capital with less than 5 year return
To address Carbon Reduction Commitments (CRC)

How did we help?

Our team assessed the feasibility of all carbon reduction solutions for the Garden Centre including biomass boiler, heat pumps and heat storage, efficient lighting, and energy storage.

This led to the installation of a 250KW solar PV system and LED Lighting to offset energy use on site. The next step will include renewable heating solutions.

Benefits for the client

Enhanced Environmental Performance & PR
Meet CRC obligations
20% typical Return on Investment

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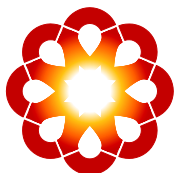


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Project: Greymare Farm
Site: Greymare Farm, Lostwithiel
Technology: 150 KWp Solar PV Ground Mount
Ref: zlc/bus005

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About the client (www.cornishfarmdairy.co.uk)

Trewithen Farm Dairies produce the freshest, most delicious Cornish dairy produce you'll find anywhere. Suppliers of dairy products to high volume and high demand clients such as Asda. The owners have had Greymare Farm since the 1980s.

What was their goal?

Tackle rising utility costs and infrastructure issues.
To reduce business' carbon footprint and up green rating with clients.
To maximise the opportunity of the Feed In Tariff

How did we help?

Our team assessed the feasibility of all potential carbon reduction solutions across the Farm and Dairy including energy efficiency measures, solar PV, Biomass, Wind Turbines, Energy Storage, water efficiency and all renewable energy options.

We have helped the business assess the best approaches to reduce energy use and carbon across the business.

This led to the installation of 150KWp of ground mounted Solar PV, feasibility assessment of biomass boiler, design and approval for a Wind Turbine installation plus support in reduced reliance on Kerosene.

Benefits for the client

15% typical Return on Investment
10% reduction in energy use.
Step change in Carbon Reduction Commitment

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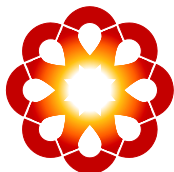


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Project: Lowen & Pool
Site: Bosinver Farm Cottages, St. Austell
Technology: 10 KWp Roof Integrated Solar PV
2.5KW Roof Integrated Solar Thermal
6KW Ground Source Heat Pump

Case Study | Commercial

About the client (www.bosinver.co.uk)

Bosinver Farm Cottages is an award winning self catering holiday business near St. Austell. Already Green Tourism Gold Standard, the business wanted to set the bar for eco-tourism and embarked on the construction of an eco-building called Lowen. Completed in 2011, zlc energy helped throughout.

What was their goal?

To demonstrate green building is possible & commercial.
Tackle rising utility costs and infrastructure issues.
To reduce business' carbon footprint and up green rating

How did we help?

Our team assessed the feasibility of all potential carbon reduction solutions across Bosinver including energy efficiency measures, water efficiency and all renewable energy options.

We produced a prioritised and justified action plan to reduce energy use and carbon across the business.

This led to the installation of 10KWp of integrated Solar PV, 14KW of on roof PV, a solar thermal system and a ground source heat pump. We have also built them a curved solar thermal and solar PV roof for their swimming pool. We provide a whole site energy management service.

Benefits for the client

Cornwall Sustainability Awards 2011: Highly commended, Sustainable Construction
15% typical Return on Investment
20% reduction in energy use.

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