



**cleanearth**

THE ENERGY TO DELIVER

**SOLAR, WIND  
AND BIOMASS  
COMMERCIAL**

# THE ENERGY TO DELIVER.

CleanEarth are leading wind turbine, solar power and biomass specialists. We operate nationally, with a base in Cornwall - an acknowledged centre for UK renewable energy.

Our specialists in solar PV, wind and biomass technology will only propose the solution which is right for you.

CLEANEARTH'S EXPERIENCED, IN-HOUSE TEAM SPEND TIME TO UNDERSTAND YOU AND YOUR REQUIREMENTS AND WILL ONLY THEN MAKE RECOMMENDATIONS. We look after every step of the process, from initial enquiry through to planning and installation, as well as the on-going maintenance of your system, giving you a seamless process at every stage.

No two projects are the same and our can-do approach, in-depth knowledge and enthusiasm for the job ensures we are able to deliver what our customers need, to plan and on time.

We have a proven track record of delivering cost saving, clean energy to a variety of clients.

## KEY FACTS

- We have designed and installed over 25MWp of renewable energy systems
- We have completed over 450 projects
- Our installations generate enough energy to power 6,796 homes\*
- Our installations will reduce CO<sup>2</sup> emissions by 337,739 tonnes over the next 20 years

\*based on home consumption of 4077.40kWh pa

## UNDERSTANDING THE COMMERCIAL SECTOR

In light of ever rising energy costs, climate change and evolving legislation, the need for a robust, low carbon alternative energy solution has never been greater. We have advised hundreds of commercial customers on the best way to make the most of their premises.

Installing solar PV, a wind turbine or a biomass boiler can generate significant income, provide energy savings and reduce carbon emissions for your business.

**CleanEarth are the natural choice for any business considering renewable energy for their site.**

## FINANCIAL BENEFITS.

- **SAVE MONEY** on your electricity - We can install your renewable energy system for **FREE**, with **NO CAPITAL INVESTMENT** from you - you can buy the electricity you need from CleanEarth at a price below the grid supply cost (typically saving 50-60% on unit energy costs)
- **GENERATE INCOME**  
Export power - if you pay for your installation, you can **SELL ANY ELECTRICITY** you do not use back to the grid. If you have tenants, they can also benefit from your renewable energy system

Tariff income - renewable energy systems are also **ELIGIBLE FOR GOVERNMENT TARIFFS** - the Feed in Tariff (FiT) for wind and solar, Renewable Obligation Certificate Scheme (ROCS) for solar, and the Renewable Heat Incentive (RHI) scheme for biomass boilers

Land lease - CleanEarth may lease your land for a wind turbine or solar array, **GUARANTEEING AN INCOME** for you

- We find solutions that work for all parties - we can provide the **TECHNOLOGIES AND FLEXIBLE FINANCE OPTIONS** - from fully financed to purchased - that work best for your business needs
- We manage all aspects of **COMMISSIONING** and **ACCREDITATION**
- CleanEarth **GUARANTEE** and warrant **EVERY SYSTEM WE INSTALL** to give you peace of mind

CleanEarth roof mounted solar installation at Woolston Farm (see page 7 for more)



CleanEarth solar installation at Treswarrow Farm (visit [cleaneartenergy.com](http://cleaneartenergy.com) for more)



## ENVIRONMENTAL BENEFITS.

- Renewable energy systems generate power from **SUSTAINABLE**, natural sources of energy
- This reduces reliance on fossil fuels and consequently **REDUCES CO<sup>2</sup> EMISSIONS**, which harm the environment
- Wind turbines and solar PV recover their **CARBON DEBT** from the manufacturing process within a few years of their installation - solar panels within 2 years and wind turbines within 3-4 years
- Switching to renewable energy **IMPROVES THE GREEN CREDENTIALS** of your company - an increasingly vital consideration in today's environmentally conscious markets
- Demonstrating environmental commitments **ADDS VALUE TO YOUR BRAND**

### DID YOU KNOW?

An amendment to The Energy Act 2011 will mean it will become unlawful from April 2018 to let premises that fail to meet minimum energy efficiency standards - currently it is estimated that around 20% of non-domestic buildings could fail to meet this standard.

#### HOW CAN CLEAN EARTH HELP?

We could improve your premises' energy rating with one of our renewable energy systems at no cost to you.

CleanEarth 500kWp turbine installation at Pengelly Farm (visit [cleaneartenergy.com](http://cleaneartenergy.com) for more)

## ABOUT YOUR PROJECT

We tailor every project we undertake to meet the individual needs of each customer. We understand that companies must be able to maintain business as usual and therefore we

work to your schedule during the planning and installation processes. Every timeline is different but the general journey for each technology we install is outlined below.

## CUSTOMER JOURNEY.



# SOLAR ENERGY.

Installing solar panels – roof mounted or ground mounted – offer companies a clean, flexible way to **generate power and income from a space that is otherwise redundant.**

We understand the concerns that commercial customers have when considering roof mounted solar panels: will the system compromise the roof structure and are there risks to my business during and after the installation process?

CleanEarth have a successful track record of installing roof mounted solar – even on the most complicated building profiles. Our comprehensive and proactive approach means we can overcome barriers to deliver projects with no fuss or risks to your business.

**“**The CleanEarth team were very efficient and installed the system quickly. From start to finish there was no disruption to the running of our site.

It makes sense to utilise our large roof space to generate electric for the site – it was wasted space before.

Therefore it's a no brainer for anyone in this situation.

Mark Sampson,  
Woolston Farm

CleanEarth solar installation at Treswarrow Farm (home of South West Seeds – visit [cleaneartenergy.com](http://cleaneartenergy.com) for more)

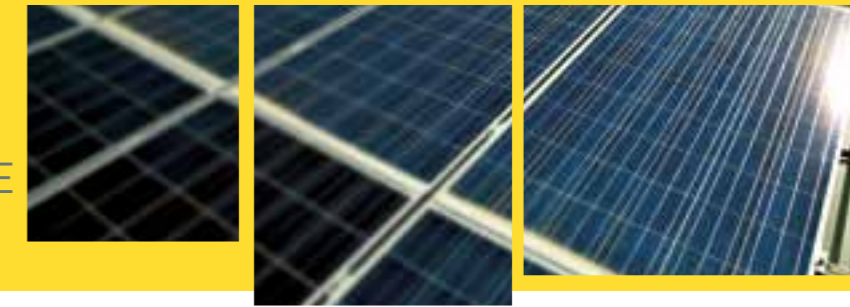
SYSTEM SIZE	ANNUAL OUTPUT	ANNUAL CO <sup>2</sup> SAVINGS
249.41kWp	225,650kWh	96,800Kg



Learn about this case study and more at [cleaneartenergy.com](http://cleaneartenergy.com)

LEASED ROOF MOUNTED SOLAR PV

## CASE STUDY WOOLSTON FARM COLD STORAGE AT A GLANCE



WHILE SOUTH FACING ORIENTATIONS ARE OPTIMAL, EAST-WEST ORIENTATIONS WILL OFTEN RESULT IN A **GREATER ELECTRICITY SAVING.**



JOSH BOWER OPERATIONS DIRECTOR, CLEANEARTH

	CAPITAL INVESTMENT	INCOME FOR YOU	OTHER COSTS	SOLAR ELECTRICITY	ONGOING SUPPORT
PURCHASED BY LANDOWNER	YES	FEED IN TARIFF PLUS EXPORT INCOME	LIMITED TO PLANNING COSTS IF NECESSARY	FREE ELECTRICITY GENERATED FOR THE LIFETIME OF THE SYSTEM <sup>1</sup>	10 YEAR WORKMANSHIP WARRANTY OPTIONAL O&M PROGRAMME
FULLY FINANCED ROOF-MOUNTED SYSTEM	ZERO	NO <sup>2</sup>	NO COST OR RISK TO YOU WE WILL BE RESPONSIBLE FOR PLANNING AND IMPLEMENTING, AND WE PAY YOUR SOLICITOR FEES	OPPORTUNITY TO BUY THE ELECTRICITY GENERATED BELOW MARKET PRICE <sup>3</sup>	WE GUARANTEE THE SYSTEM FOR 25 YEARS AND MAINTAIN THE SYSTEM
FULLY FINANCED STAND-ALONE GROUND MOUNTED SYSTEM	ZERO	RENTAL INCOME FOR YOUR LAND	NO COST OR RISK TO YOU WE WILL BE RESPONSIBLE FOR PLANNING AND IMPLEMENTING, AND WE PAY YOUR SOLICITOR FEES	NO	WE GUARANTEE THE SYSTEM FOR 25 YEARS AND MAINTAIN THE SYSTEM

<sup>1</sup>only pay for additional usage; <sup>2</sup>only considered for roofs 500KW+; <sup>3</sup>generated for the lifetime of the system typically 50% less than grid price - only pay for additional electricity you need from the grid

# WIND ENERGY.

Installing a wind turbine offers **long-term income** with no risk or cost to your business.

Commercial customers traditionally veer towards solar power when considering a renewable energy solution for their business. However for some sites it may be worth considering a wind turbine. If your business has high energy usage and you have the

space available – a wind turbine could be appropriate for your site.

CleanEarth will take you through the process of installing a wind turbine without any risk or cost to your business.



*From day one to completion the CleanEarth team were both very professional and knowledgeable. They kept us well informed and worked tirelessly to keep things moving through planning and dealt with all the challenges that came along in the most positive way. I look forward to working with them both now and in the future.*

*Adrian Finimore,  
Papillion Wind Turbine*



SYSTEM SIZE	ANNUAL OUTPUT	HOMES POWERED	ANNUAL CO <sup>2</sup> SAVINGS
500kWp	1,624,000kWh	387 PA	700 tonnes



Learn about this case study and more at [cleaneartenergy.com](http://cleaneartenergy.com)

WIND TURBINE

## CASE STUDY CREALY ADVENTURE PARK AT A GLANCE



A 500KW WIND TURBINE OPERATING WITH AN AVERAGE WIND SPEED OF 7 METRES / SECOND WOULD EARN **£35,000 PER YEAR** FOR THE LANDOWNER AT THE CURRENT TARIFF\*.



TRISTAN GRIMES TECHNICAL DIRECTOR, CLEANEARTH

CleanEarth wind turbine installation at Cornwall's Crealy Adventure Park

	CAPITAL INVESTMENT	LAND RENTAL	OTHER COSTS	ELECTRICITY SAVINGS	SUPPORT
LAND LEASE	ZERO	8-10% OF TURBINE GROSS INCOME	ZERO	OPPORTUNITY TO BUY THE ELECTRICITY GENERATED BELOW MARKET PRICE	CLEANEARTH REMOTELY MONITOR, OPERATE AND MAINTAIN THE TURBINE FOR THE DURATION OF THE PROJECT (Typically 25 years)

# BIOMASS ENERGY.

Using wood instead of gas or oil - biomass boilers offer landowners a **low cost, renewable source of heat** for their buildings.

Biomass boilers come in a variety of sizes and offer a broad range of heating solutions – even if you have a large or unusual space to heat we have the ability to tailor a heating system to meet your needs.



*Set against the rising and unpredictable price of oil, investing in biomass made complete economic and environmental sense.*

*The installation will pay for itself within three to four years and since the cost of heating has been halved, we will be able to heat the buildings more generously through the winter months.*

*Mike Wills, Woodsaws Farm Holiday Cottages*

	CAPITAL INVESTMENT	RENEWABLE HEAT INCENTIVE (RHI)	SAVINGS FOR YOU	ONGOING SUPPORT
PURCHASED	YES	YES	ECONOMICAL, LOW-CARBON FUEL	SERVICE AND MAINTENANCE CONTRACT AVAILABLE
FULLY FINANCED	NO	NO	ECONOMICAL, LOW-CARBON FUEL	WE MAINTAIN THE BOILER FREE SERVICING FOR THE LENGTH OF THE TARIFF

SYSTEM SIZE	ANNUAL OUTPUT	ANNUAL FUEL SAVINGS	ANNUAL CO <sup>2</sup> SAVINGS
2 x 199kWp	520,000kWh	£5,500	130,000Kg

PURCHASED BIOMASS BOILERS  
**CASE STUDY**  
HUDSLAND FARM  
AT A GLANCE



Learn about this case study and more at [cleanearthenergy.com](http://cleanearthenergy.com)



*CleanEarth biomass boiler installation at Trewithen Estate (see [cleanearthenergy.com](http://cleanearthenergy.com))*



*The Hodge family of Pengelly Farm*



CleanEarth is passionate about supporting the local communities within which we operate. Landowners or parish councils involved in large scale projects have the option to choose appropriate local beneficiaries – to whom substantial community contributions are directed.

CleanEarth has already donated significant funds to local parishes and schools, and we have committed **£140,000 PER YEAR** to community causes for the next 20 years.

This community ethos not only supports local residents close to our energy system installations, but also gives our team a sense of pride and satisfaction that they are giving back to the communities we serve.

A large graphic consisting of a dark blue 'C' with a white 'e' nested inside it.

# cleanearth

THE ENERGY TO DELIVER

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