

How can Larkfleet Group's sustainability expertise benefit you?



Larkfleet Group

Lincolnshire-based Larkfleet Group comprises several companies that have a joint focus and established expertise in many areas of sustainability. Larkfleet is committed to meeting the demand for high quality, energy-efficient housing in a highly competitive market. It also provides domestic and large scale energy saving technologies and renewable energy generation projects whilst investing in the future sustainability of the construction industry.



Lark Energy developed the largest solar farm in the UK at a former WWII airfield in Leicestershire

Sustainable technology and energy generation know-how

Within the Larkfleet Group, there is a wealth of knowledge about renewable energy generation and sustainable technologies.

Group company **Lark Energy** focuses on financing, developing and installing large scale, commercial solar projects as stand-alone energy assets. It has developed and installed over 60 MWp of PV across the UK since June 2011, including the largest solar farm in the country, making it one of the UK's market leaders in the solar sector.

Lark Energy's projects range from multi-roof housing projects and on-roof commercial systems to large, utility-scale solar farms. It also develops site-wide energy infrastructure for larger housing and mixed-use developments.

All Lark Energy's PV installations are MCS or ROO-FIT accredited and are therefore eligible for either the Feed in Tariff or Renewable Obligation Certification.

Lark Energy's renewable energy solutions are designed to provide excellent financial returns, enhance the value of its clients' existing buildings and land, reduce their consumption of grid energy and reduce the carbon intensity of their operations.

Builders' merchant **Deepings Building & Plumbing Supplies** is also part of the Larkfleet Group of companies. Whilst Lark Energy offers a complete service for large-scale roof-top PV installations on industrial and commercial buildings, Deepings Building & Plumbing Supplies provides a similar service for smaller-scale domestic installations.

The builders' merchant supplies a wide range of innovative renewable, 'eco' and energy-saving solutions suitable for new build, retrofit and refurbishment projects including heat pumps, solar panels, under floor heating, thermal insulation, timber frame and cladding, water-saving plumbing, rainwater harvesting – and more.

Another group company, **Larkfleet Renewables**, offers social housing providers, private landlords and homeowners a one stop shop for both Green Deal and ECO funded energy saving measures in housing and commercial buildings.

Larkfleet Renewables works with landlords, homeowners, tenants, utility companies and others to drive down energy bills and carbon footprints while increasing energy efficiency and levels of comfort.



In association with other Larkfleet Group companies Larkfleet Renewables has constructed a Green Deal Eco House to demonstrate the range of technologies available under the Green Deal programme.

Energy-efficient homes for future generations

As well as its investment in energy-saving technologies, Larkfleet Group is committed to building high quality, energy-efficient properties across the East of England and East Midlands through **Larkfleet Homes**, its award-winning flagship company.

Energy-efficiency and sustainability are main focuses of Larkfleet's properties.

Larkfleet Homes offers solar PV (photovoltaic) panels as standard or on selected properties at many of its developments.

The installation of PV panels on Larkfleet properties will benefit homeowners due to the government's Feed in Tariff (FIT) scheme that encourages the development of small scale renewable energy generation. Larkfleet homeowners will benefit from reduced electricity bills for years to come by using the energy which the panels generate and create an income from selling excess power back to the grid.



At its Leighfield Park development in Oakham, Larkfleet even offers allotment gardens for residents to encourage a sustainable lifestyle and community and also has an electric car charging point on site for resident and public use.

Larkfleet Homes builds many of its properties to meet level 3 of the Code for Sustainable Housing – some 25 per cent above the current minimum requirement for energy efficiency set out in building regulations.

The timber frame construction method used in many Larkfleet properties is an efficient method of building which allows for quicker construction times. The timber frames are sourced from sustainable forests.

With increasing energy prices, Larkfleet properties are an investment for the future. Dependant on the age, size and type of an alternative property, the energy-efficient nature of Larkfleet homes could save homebuyers up to £600 a year in fuel bills.

Larkfleet Homes has developments in Rutland, Cambridgeshire and Lincolnshire.

It offers financial incentives – including the government's Help to Buy scheme – to help buyers in several different financial situations buy a property.

Larkfleet Homes also has lifestyle living developments in Bourne, Lincolnshire and Yaxley in Cambridgeshire.

They are exclusively for the over 55s and offer maintenance free, high quality properties for young at heart buyers looking to downsize their property – without comprising on quality.

Larkfleet Exclusives is the newest addition to the Larkfleet Group and offers an exclusive selection of large luxury family homes across the region.

Larkfleet Group is leading the way in energy-efficient construction, both in its offering to home buyers, through its expertise in renewable energy and its investment in new technologies.



Investing in the future of the construction industry

Larkfleet Group (as part of a consortium) has developed Startlink Lightweight Building Systems (SLBS) – energy-efficient, low cost housing that is quick to build using lightweight materials and innovative, labour-saving assembly techniques.

To put SLBS into practice, Larkfleet constructed a test house – the Larkfleet PassiveHouse – next to its headquarters in Lincolnshire. The Larkfleet PassiveHouse is a first of its kind and successfully demonstrates the potential for greater environmental, economic and social efficiency in construction.

If built and furnished with suitable flooring material and decorative finishes on the ground floor, the Larkfleet PassiveHouse is also highly 'flood resistant'. The absence of extensive foundations and the nature of the pultruded materials of construction means that the structure is unaffected by flood water. If the house is flooded, it can swiftly and (compared with conventional homes) inexpensively be brought back into use. This provides the opportunity for housing to be constructed on flood risk land.

Looking to the future, the light weight of SLBS homes offers the potential for them to be built on foundations which would rise in response to flooding – keeping the houses themselves entirely clear of the water. This may make it possible to develop housing where it is not currently viable because of potential flooding.

The Larkfleet PassiveHouse boasts significantly reduced carbon emissions both in construction and use phases.

It shows how the building industry could provide future generations with energy-efficient housing, reducing carbon emissions and fuel poverty.

It also provides a 'tried and tested' example of how housing can be constructed much



The Larkfleet PassiveHouse

more quickly and energy-efficiently which in turn means reduced construction and housing costs.

Larkfleet now has practical experience of the use of SLBS which it can apply to future large scale delivery of such housing.

For more information on Larkfleet Group and how it can help you or your business, visit www.buildingsustainability.info or call 01778 391550.