



## Solar Carports

The future of on-site  
energy generation

ELECTRIFYING CHANGE



## Solar Carports

### Turn your car park into a power plant without losing a single parking space!

RenEnergy's solar carports provide clean, cost-effective energy for your business by using your existing car park, real estate that is otherwise underutilised, without losing a single parking space!

Your car park could be generating energy, that can be used to power your building or generate energy for electric vehicle (EV) charging points.

RenEnergy solar carports are expertly installed, with often no major groundworks needed and no loss of car parking spaces. Advanced and versatile, RenEnergy solar carports are custom-designed and manufactured for the specific site, taking into consideration site characteristics including the car park design and layout.

The result: a covered car park that pays for itself by generating energy from the sun.



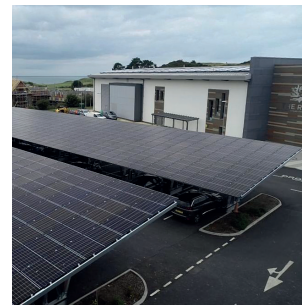


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### Why act now?

Transforming your passive car park into an energy generating asset makes commercial sense. Energy prices have increased exponentially. Generating your own on-site energy protects your business from volatile energy prices and provides a visible display of your commitment to the environment.

Future-proof your business for the EV revolution - the transition to electric vehicles is accelerating, with EV charging points becoming a driver's must-have.



## AVIVA Insurance PLC

“The solar carport is a really innovative way to generate green energy, tackle climate change and reduce our environmental impact. It’s a fantastic design that delivers on the environmental benefits without impacting on space. And it’s ready for the future with the electric vehicle revolution just around the corner.”



“We are thrilled with RenEnergy’s brilliant design and construction. It was great to be able to use a local company whose skill and expertise in this field has delivered this amazing result.”

**Stuart Wright**  
Property and Facilities Director, Aviva PLC



## The Reef Leisure Centre

“This is a fantastic innovation for The Reef, and for North Norfolk. Generating our own renewable power is a huge step in moving to a more sustainable future and one we would like to see replicated elsewhere in the district.”



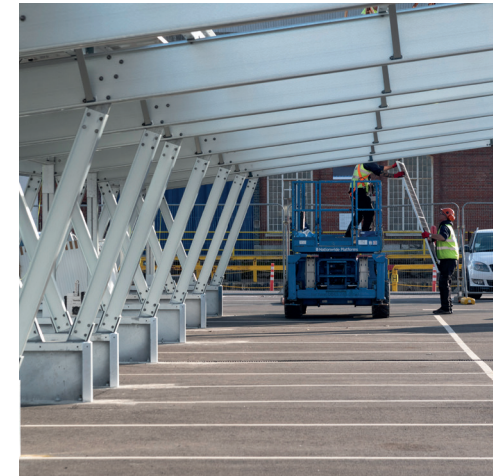
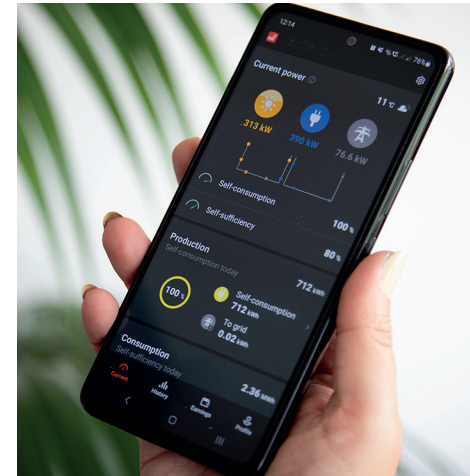
## Expertly installed

Our inhouse expert design and installation teams take care of everything, from a full site survey and technical feasibility study to planning applications and gaining the necessary grid approval.

We'll explore all the options with you and recommend the most cost-effective design based on your goals and needs.

Ultimately, you'll take possession of a fully functioning car park that is also an independent power plant, with all key components backed by bankable manufacturers' warranties and the RenEnergy installation guarantee.

150 parking spaces can generate enough electricity to power 138 homes annually



### The benefits of a RenEnergy Solar Carport

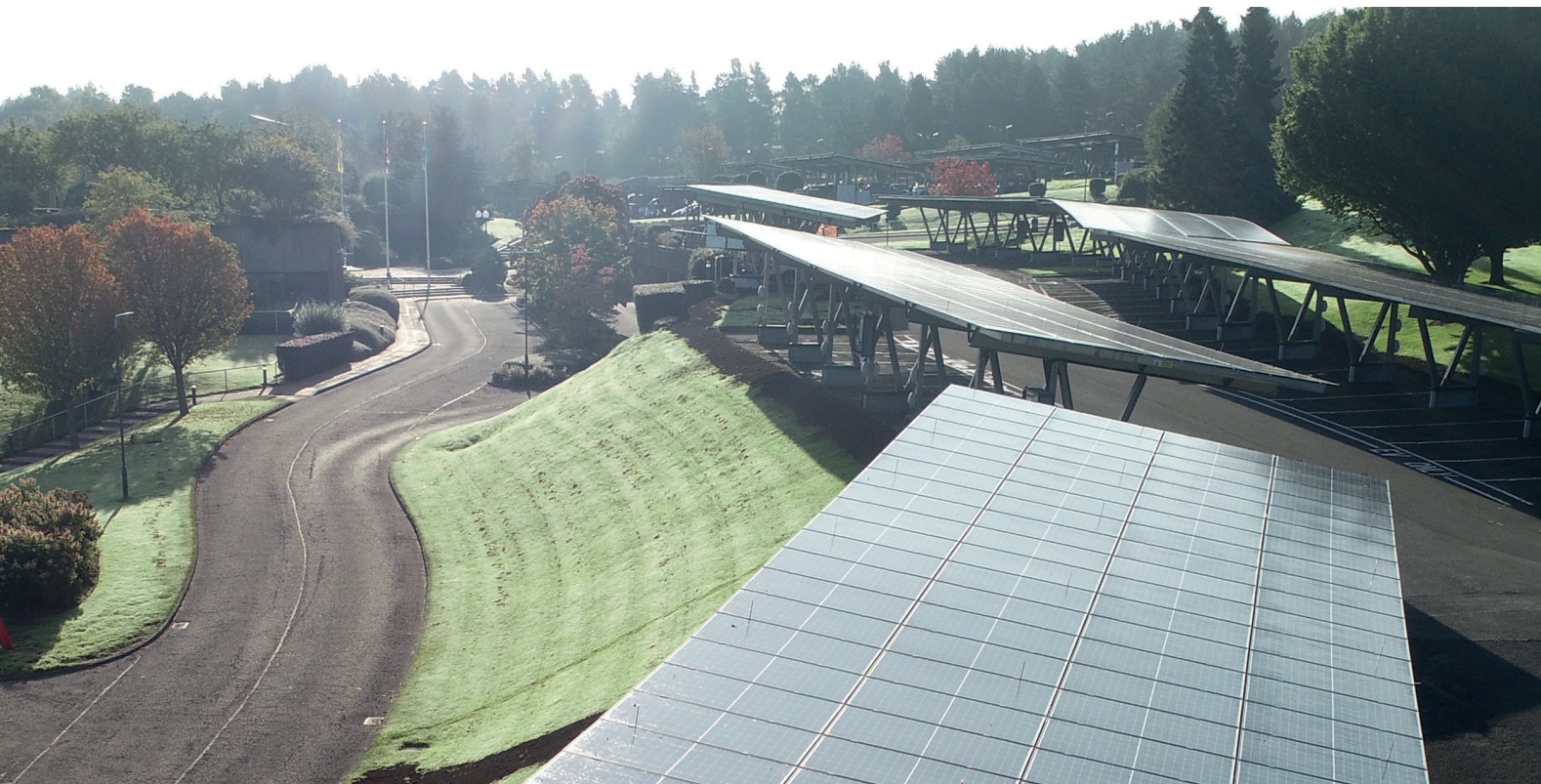
- Our innovative low impact ground fixing and compact design prevents the loss of any car parking spaces
- Flexible bespoke design enables the solution to be installed on any surface
- Utilises otherwise unutilised parking spaces to generate energy
- Coupled with energy storage, the solution offers secure onsite renewable energy 24/7
- An outwardly visible display of corporate responsibility and commitment to the environment and our planet
- The modular design ensures a quick and efficient build process, enabling the car park to remain operational throughout the construction phase
- The carport frame can be fully dismantled and relocated, leaving no trace on the land
- Future-proof your car parking facility to allow for the addition of EV charging infrastructure to meet increasing user demand
- Improve employee and/or customer experience by offering sheltered parking protected from the elements



## Designs to suit your site

We design, supply and install each custom-made solution to maximise available space and energy yield, engineered from the ground up.

Apart from the technical design of the solution, we design practical ergonomic solutions that take factors such as driver visibility, vehicle door opening and traffic management plans into account.



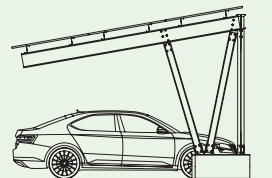
Manufactured in the UK from recyclable steel, RenEnergy's solar carports are designed to be a versatile cost-effective solution for business' energy needs.

Expertly installed using a modular design, RenEnergy solar carports can be scaled to achieve optimum energy economics for your car parking facility, whether it be an independent car park, company, retail or a local authority site.

**Our innovative solar carport system can be designed to fit some extreme locations**

## Designs to suit your site

A number of design configurations are possible to suit the most common car park layouts. These are illustrative and the bespoke nature of our solution allows us to tailor the design to your site's specifications.



### Mono-pitch Single

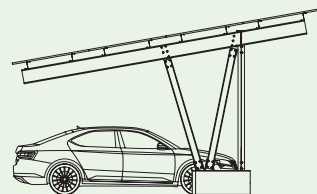
A single-depth carport that can be angled to maximise solar yield. It has a steel base that enables car doors to be opened

#### Output over 4 bays

Over 4 bays using a high wattage module it can support 9.28kWp of modules covering 49m<sup>2</sup>

#### kWh Annually

Annual output of 8,500 - 9,500 kWh. Equivalent to charging a Nissan Leaf (40 kWh) car 225 times



### Mono-pitch Single Extra

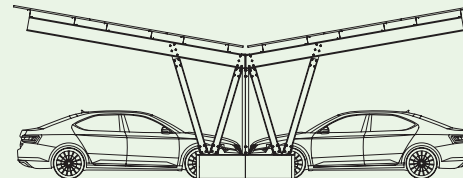
The addition of the panel over the back of the array utilises otherwise unused space to maximise output

#### Output over 4 bays

Over 4 bays using a high wattage module it can support 12.39kWp of modules covering 65m<sup>2</sup>

#### kWh Annually

Annual output of 11,500 - 13,000kWh. Equivalent to charging a Nissan Leaf (40 kWh) car 310 times



### Gull Wing

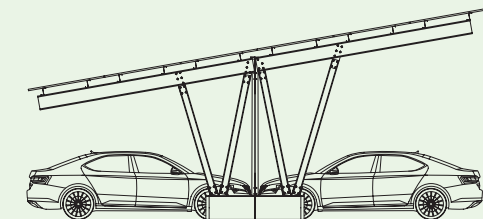
The depth of the solution spanning two car parking spaces enables maximum utilisation of the most common carpark layout. A Gull Wing design is best suited to an East-West orientation

#### Output over 4 bays

Over 4 bays and 8 car parking spaces it can support 18.75kWp of modules covering 99m<sup>2</sup>

#### kWh Annually

Annual output of 17,000-19,500 kWh. Equivalent to charging a Nissan Leaf (40 kWh) car 438 times



### Mono-pitch Double

The depth of the solution spanning two car parking spaces enables maximum utilisation of the most common carpark layout. A Mono-pitch design is best suited to a South orientation

#### Output over 4 bays

Over 4 bays and 8 car parking spaces it can support 18.75kWp of modules covering 99m<sup>2</sup>

#### kWh Annually

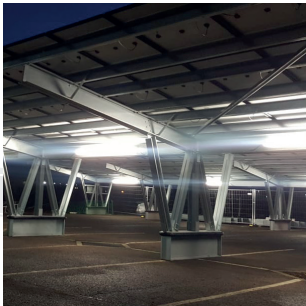
Annual output of 18,000 - 19,500kWh. Equivalent to charging a Nissan Leaf (40 kWh) car 498 times





## Versatile design options

RenEnergy solar carports can be equipped with a range of technologies.



### LED lighting

Energy efficient light emitting diode (LED) lighting controlled via Passive Infrared (PIR) motion detectors and/or daylight sensors offer illumination underneath the carport to maintain a comfortable and safe environment

### Rain harvesting and guttering

Rainwater harvesting and guttering can be incorporated into the design to collect water or to flow into existing surface water drains

### LED Lighting

### Inverter

### Electric vehicle charging points

### Branding

Add your business' branding and coloured frames

### Underground cables

Energy flows to the grid or battery storage



### CCTV

Closed circuit television (CCTV) cameras can be built in



### Energy Storage

Add batteries for independent security of supply beyond daylight hours



### Electric vehicle charging points

EV charging points can be installed as part of the original design or retrofitted. The charging points can be powered directly from the solar panels, enabling even the most remote location to benefit from electric vehicle charging points



## A cost-efficient investment

Through refining our innovative designs, RenEnergy offers a cost-efficient, very competitively priced solar carport solution. To match this we also offer a range of finance options to suit the needs of your business.

From self-funded to funded models - including RenFree, Power Purchase Agreements and Asset Leasing - that will allow clients to benefit from renewable energy without the upfront capital outlay or ongoing maintenance costs.

Our team will work with you to build the most suitable model for your business and location.



The electric car market is expanding...  
Is it time to get up to speed?  
Ask about RenFree





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### Why RenEnergy?

We are a boutique, knowledge-based, international renewable energy business, principally focused on the application of solar photovoltaics, energy storage and electric vehicle charging.

Our primary trading territories are the United Kingdom (UK) and South Africa (SA), from where we consult on, design and deliver innovative renewable energy solutions to clients around the world.

Since 2006, we have been passionate pioneers in renewable energy, and unwavering advocates for the environmental and value benefits that solar solutions deliver.

We believe that renewable energy storage can change the world on many levels, from protecting the natural environment to aiding food security.

It is this passion that drives the single-minded focus of our brand: "Electrifying Change".

#### **Long-standing relationships**

We've been trusted by our clients since 2006, building long-standing partnerships and evolving their solutions when their requirements change

#### **Superior quality**

We have exclusively in-house teams of consultants, designers, procurement and installers that work together to ensure your solution is of the highest possible quality

#### **End-to-end service:**

We are a full EPC (Engineering, Procurement and Construction) accredited business, with highly experienced functional teams. We look after projects from start to finish to maintenance

#### **Asset Management**

We don't just install solutions, we are there every step of the way to ensure that your solution performs to its optimum potential over time

#### **Technical expertise**

The intellectual property that we have developed in deeply understanding technology and the application thereof is a substantial differentiator from new entrants into the market

#### **International experience**

In 2012, RenEnergy branched out from the UK, opening an office in South Africa. Operating in such a different energy market has allowed us to develop and refine a diverse portfolio of offerings, including grid-tied and hybrid energy solutions.



## Solar Carports

### Curious?

Visit [www.renenergy.co.uk/carports](http://www.renenergy.co.uk/carports) for examples of how we assisted other organisations to future-proof their energy supply.

To find out what solution is best for your business, please get in touch with us.

Call us on 01603 713448 or email us at [info@renenergy.co.uk](mailto:info@renenergy.co.uk).

We look forward to hearing from you.





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