

# The NHS goes greener...

## CHALLENGE

Multiple pitch roofs with considerable shading. Maximized production without interfering with the aesthetics of the buildings.

## SOLUTION

The 7th generation Enphase IQ7 offers the highest performance microinverter on the market with unprecedented "ALL AC" safety.

## RESULT

Highest performance production that minimizes shading with the safest "ALL AC" solution possible.



" We have been selling Enphase products since they entered the UK market in 2011 with hundreds of Enphase installations under our belt. We naturally wanted to be part of one of the first IQ 7 installations in the UK on such a prestigious installation for the NHS\* headquarters. Enphase offers quality solutions coupled with all AC safety and unprecedented efficiency given the shading across these roofs. Making this an ideal solution."

— Richard Cromarty,  
Managing Director,  
JPS Renewable Energy

The NHS choose safety, performance and aesthetics. JPS Renewable installs the Enphase 7th generation IQ 7 microinverter to equip their headquarters.

**Nearly 40 per cent more than the original prediction – almost 600kw/h in one week. Saving the equivalent Co2 as planting 11 trees, that's the same as running a typical fridge for almost five months for free.**

The Kent Community Health NHS Foundation Trust asked the Gallagher Group to select an experienced Solar photovoltaic expert to provide a comprehensive solar PV project that suited their needs namely safety, performance and aesthetics given the Kent down AONB location. JPS Renewable Energy put forward the ideal solution offering all AC safety and the highest production possible despite considerable shading.



## INSTALLATION SUMMARY

**Client:** NHS Trust

**Location :** The Oast Hermitage Court, near to the Kent Downs AONB\* is home to one of the highest points in the south east on the Sevenoaks Greensand ridge, not to mention the famous heritage coasts.

**System Size:** 16.5kWp

**Installer:** JPS Renewables

**Project partner(s) :** Gallagher Group one of Kent's largest building and civil engineering companies <http://www.gallagher-group.co.uk/>

**Modules:** JA Solar 260-280W panels

**Microinverters :** Enphase M215 microinverters x 60

**Monitoring :** Envoy-S metered communications gateway x1

Two environmentally friendly upgrades have been installed at the Oast.

The first project was to mount solar panels and microinverters on to the roof of the building.

The NHS approached their landlords the Gallagher Group to help find a solar expert to install panels that are safe, perform well and look good, given that the Oast is in an Area of Outstanding Natural Beauty.

They used JPS Renewable Energy. Its solar solution including Enphase micro-inverters offers the highest solar production possible despite considerable shade at the Oast.

"The all AC solar solution is performing amazingly well and have over-generated by nearly 40 per cent more than the original prediction – almost 600kw/h in one week." **Anna Hinde, Communications officer, NHS Trust**

We have saved the equivalent Co2 as planting 11 trees, that's the same as running a typical fridge for almost five months for free.

The second project was to put in four fast-charging points for electric vehicles in the dedicated NHS car parking area.

The work is all part of the trust's commitment to becoming greener and sustainable.

**Enphase Energy, Inc.,** A global energy technology company, delivers smart, easy-to-use solutions that connect solar generation, storage and management on one intelligent platform. The Company revolutionized solar with its microinverter technology and produces the world's only truly integrated solar plus storage solution. Enphase has shipped over 18 million microinverters, and approximately 780,000 Enphase systems have been deployed in more than 120 countries. For more information, visit [www.enphase.com](http://www.enphase.com) and follow the company on Facebook, LinkedIn and Twitter.

To find how Enphase can help cut your energy bills and carbon footprint, visit [enphase.com/uk](http://enphase.com/uk).