

# Taking care of CO<sub>2</sub> emissions

We helped the University of North Midlands Trust cut CO<sub>2</sub> emissions by 2,792 tonnes a year and reduce their energy bills by thousands each month.



## They needed to improve their energy performance

The Royal Stoke University Hospital provides services for approximately 500,000 people in the North Staffordshire area. With the 24/7 nature of hospitals, energy consumption is consistently high and their goal was to improve environmental performance whilst reducing energy costs.

## Creating a healthier solution for the long-term

Our role was to install a new ENER-G Combined Heat and Power (CHP) unit on the Royal Stoke University Hospital site. We decommissioned and disassembled their old, system and installed the 1.2MW ENER-G CHP unit to deliver greater performance. This intelligent unit recovers heat created during the generation process, and then uses it to supply heating and hot water for the building.

## Monitoring live energy levels

The ENER-G CHP on-board computer also provides a two-way communication channel to the ENER-G service centre. This allows live system operational monitoring so any faults can be quickly rectified. It also provides full historic data retrieval if required.

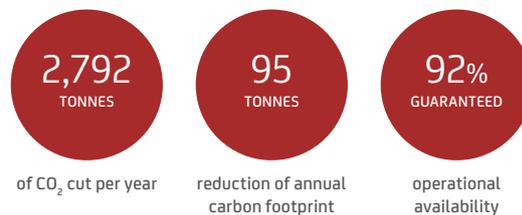
## The results

The ENER-G CHP unit is helping reduce the hospital's CO<sub>2</sub> emissions by almost 2,792 tonnes a year. This is almost 8% of the Trust's current carbon output, and equivalent to the environmental benefit of removing 991 cars from the road.

With mandate to reduce emissions by 80% by 2050, the University Hospitals of North Midlands NHS Trust is now well on course to hit their target.

## Supporting the hospital into the future

The hospital took out a Premier Plus service contract – a fully comprehensive operation and maintenance package. This means they benefit from a range of services including 24-hour remote monitoring, a dedicated site engineer and all-inclusive parts and labour for the contract term.



“

This project delivers recurring revenue savings in energy costs. As well as helps to cut carbon emissions and save the environment, all the money saved in energy bills will be redirected to front line patient care.”

**Charlie Cox**

Energy Manager, University Hospitals of North Midlands NHS Trust

## Why choose ENER-G CHP?

- Avoids Climate Change Levy
- Primary energy savings deliver lower energy bills
- Higher efficiency offers reduced greenhouse gas emissions, offsetting the impact of the Carbon Reduction Commitment
- Greater security of supply and plentiful hot water
- Flexible procurement options
- Zero CAPEX required
- Possible grant funding & VAT savings