



#1 ENERGY:

The facts

Wyboston Lakes Resort had an estimated Carbon Footprint of 2,009* tonnes of CO₂e.

Carbon Footprint identifies how much carbon dioxide in tonnes a business emits in a year from its activity. There are many ways a business can measure carbon footprint**.

To allow comparison of carbon emissions from varying business types we looked at three scopes as identified in the GHG protocol.

Scope 1 covers direct emissions from Wyboston Lakes Resorts owned or controlled sources.

Scope 2 covers indirect emissions from the generation of purchased electricity, steam, heating and cooling consumed by the resort.

Scope 3 includes all other indirect emissions that occur in a company's supply chain.

As a large site, featuring more than 20 buildings with multiple uses, there are many factors to consider when looking at energy-saving opportunities. Negotiating better energy contracts and establishing kVA usage to amend the site's agreed supply capacity was a priority for us.

In conjunction with these steps, our energy saving specialists undertook a number of energy efficiency improvement programmes, based on the completion of energy audits and feasibility studies.

Electricity



The Energy Check, our energy partners quickly identified that a significant amount of the energy use at the Resort was electricity. The first quick win of 2020 was the negotiation of green electricity contracts. This means that all the electricity used is generated from renewable energy sources which have zero carbon emissions. This has directly saved 1,330 tonnes of CO₂e from the Wyboston Lakes Carbon footprint which is 65% of the total emissions.



MeasureMyEnergy has also been installed, which measures and records the electricity used on each electrical circuit each second, building a picture of the electricity used each hour, day and year. The clear visibility of demand will highlight in real time any devices that are wasting energy.



The Resort has installed ten more electric car supercharger points and two, dual 7kW electric vehicle chargers for guests to encourage electric car usage. There is now a total of 26 charger points on the site. As Wyboston Lakes has Green Electricity, all the charge in the cars is 100% green, significantly reducing the carbon footprint of cars charged at Wyboston. An average car emits about 1 tonne of CO₂e for every 5000 miles.



Mains Gas & LPG

Gas and LPG Gas are both fossil fuels that are more difficult to eliminate. To overcome this, we instructed a feasibility study to look at the installation of a Water Source Heat Pump to be submerged in one of our lakes that will be big enough to support our demand in utilities and so eliminate gas from the Resort. This will require a significant investment, but with government incentives we hope to move forward with this project. Once completed, all our utilities will be from renewable resources, which will be a great achievement.