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## CHP CASE STUDY - LEISURE CENTRE



### The Client Requirements

The client needed to assess whether there was any potential to reduce the operational energy costs and carbon emissions for a privately owned leisure centre, currently approximately £1m/annum.

The leisure complex consisted of a 170 metre ski slope, ice skating rink and 25 metre swimming pool and accompanying retail and catering outlets.

### The Solution

Burcote was commissioned to review the Mechanical and Electrical systems at the centre and look at the options for reducing both energy costs and carbon emissions. The final recommendation was to install a 772 kWh CHP (Combined Heat and Power) gas engine and absorption chillers.

This solution was found to be most appropriate in this particular case in view of the volumes and nature of the energy demand from the leisure centre.

### The Benefits

Installation of the CHP Unit would lead to energy savings of **£260k** per annum with an installation cost payback of **3.5 years**.

If you would like more information please contact: **Ruth Gilbody** on **01327 810620** or **ruthgilbody@burcote.co.uk**

