



A fully-boiled solution with fuel cell systems

How it operates for breweries & distilleries.

The brewing and distilling industries are among the most prolific users of energy. To make beer or spirits you need plenty of heat. Modern and efficient drinks companies also require green energy solutions to cut their costs and their carbon footprint.

Only a massive kettle is capable of generating the temperatures of over 110 degrees centigrade required to boil down the wort - or "crude beer," which consumes 45% of all energy needs. Engineers have been grappling with solutions to reduce heat and electricity consumption in brewing for years.

Logan Energy has the capability to assist the brewing industry and its engineers to build a low carbon fuel cell energy system. Many breweries and distilleries have long understood the merits of Combined Heat and Power, and there are instances of the surplus heat being used to warm local homes. Increasingly breweries are looking at bio-mass energy to meet carbon emission targets and yet the biomass option can present some very fundamental

challenges, emissions to air, availability of feedstock, transport and storage. Biomass is most efficiently converted to electricity and heat in a fuel cell using anaerobic digestion with the cake being used as fertiliser.

An on-site fuel cell system can also give drinks producers the comfort they require as no other generation system comes close to the availability achieved by systems powered by fuel cells. Such systems are now a viable and cost-effective option that managers and finance people in the industry cannot ignore. Locally produced energy increasingly makes sense, and fuel cells offer a viable joined up and cost effective solution.

Logan Energy has the expertise and knowledge to install and operate energy centres for breweries and distilleries that incorporate or are part powered by fuel cells. These can use hydrocarbon based fuels, such as natural gas to give a carbon reduction of 40% and later be converted to run on a green gas with a zero carbon impact. No other distributed energy source can duplicate this kind of flexibility.



If you'd like to know more about how your drinks business can truly benefit, please contact John Lidderdale or Bill Ireland.

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It's an elegant solution.



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