

Case Study

Green Distilleries

We partnered with Locogen to deliver green solutions to two of these winning projects in the BEIS Green Distillery Competition. We worked together to help whisky distilleries in Benbecula and Inverkeilor move away from traditional distilling processes that rely on burning fuel oil or natural gas, to a more environmentally friendly alternative that embraces green hydrogen.

“Working with Locogen, the success of these projects has the potential to [play a catalytic role in the adoption of hydrogen technologies across Scotland’s whisky industry.](#)” – *Bill Ireland CEO of Logan Energy*

ARBIKIE DISTILLERY

We worked with the Arbiikie Highland Estate Distillery to assess the feasibility of switching from fuel oil to hydrogen burners that provide direct process heat for distillation. Direct combustion of hydrogen in burners requires the retrofit of the fuel distribution and boiler systems within the distillery. The option of creating hydrogen offsite and transporting onsite has also been investigated. The project will create a zero or low carbon distillery that has been converted from fossil fuel dependence, and it is hoped that this will become a model that can be rolled out across the distillation sector and other industries.

PROJECT STAGE

Phase 1 – Feasibility Study

Phase 2 – CAPEX Funding



BENBECULA DISTILLERY

We studied the possibility of the distillery being run by a hydrogen burner and indirect heating of a thermal oil, rather than conventional steam. This innovative engineering approach uses the indirect burning of hydrogen to create a safer operational environment and a cheaper solution than direct combustion. We also analysed the feasibility of creating hydrogen onsite through the installation of renewable energy generation, as well as finding markets for any excess hydrogen created.

With an aim to “champion all things Hebridean”, this brand-new distillery will provide an economic boost by creating 25 jobs within the local community.

“It seems that “guid auld Scotch drink” has a great future in the new zero-carbon economy.” – Andy Lyle, CEO of Locogen

