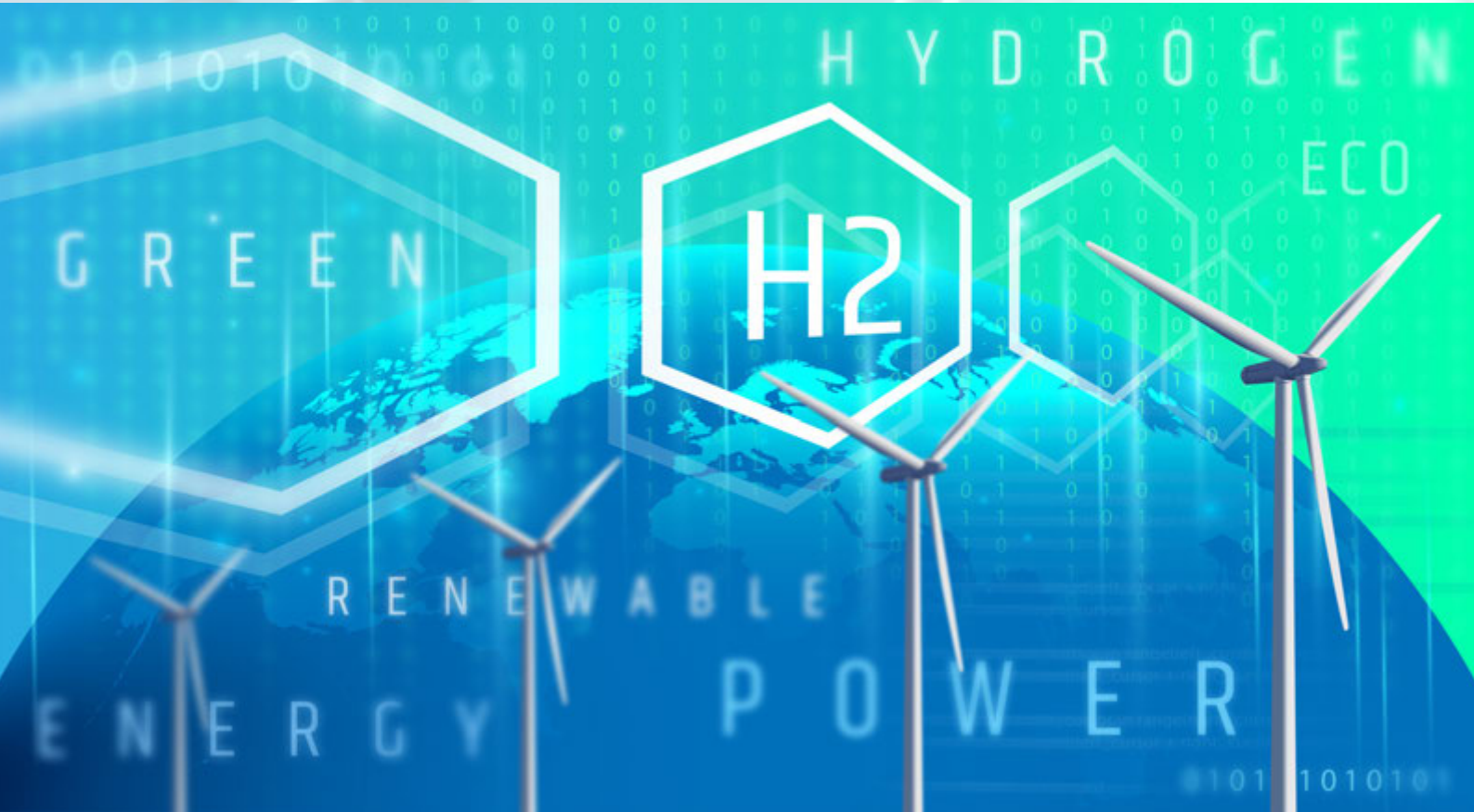




HYDROGEN READY

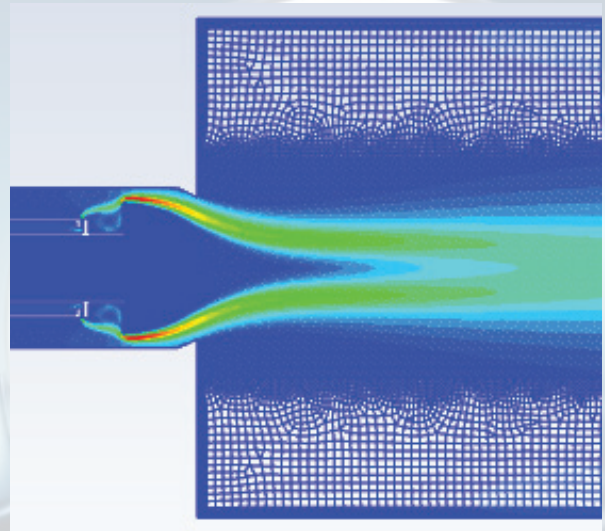




Limpsfield Burners are 100% Hydrogen ready

Limpsfield Combustion have been firing Hydrogen successfully for over 20 years.

As part of the current move to Net Zero and decarbonization, Limpsfield is currently in discussions with the BEIS, H21, Edinburgh University on behalf of many Scottish Distilleries, the CEA, amongst others within our industry in producing Hydrogen fired and hydrogen ready burners. Limpsfield burners are currently firing 100% Hydrogen and are capable of firing any known mix of Hydrogen as long as the heat value of the fuel (CV) is known.



What is Net Zero Carbon

In simple terms Net Zero Carbon means slowing the speed of global warming!

Why Net Zero Carbon matters?

Generally speaking, Net Zero Carbon matters because our clients and people around the world are asking for it.

You do not have to believe in global warming, or that it is important, but it is important to respond to market demands. Responsible organisations, corporations, process plants, hospitals, airports, large buildings, Planned Maintenance companies etc. have to take to decarbonization seriously in order that the public will in turn take them seriously.

Whilst it is unlikely that Hydrogen is the complete answer to our future fuel issues, recent discussions indicate that 100% Hydrogen is unlikely to be available in built up cities as huge improvements in infrastructure would be needed, such as laying new pipework underneath already overcrowded roads etc. that would be extremely costly and not practical. However decarbonization will most likely be achieved with a mixture of burning Hydrogen in areas where Hydrogen is produced locally, renewables, wind farms, burning fossil fuels efficiently such as Natural Gas or various Natural Gas / Hydrogen blends. Therefore it is important that the burners we supply now, to fire Natural Gas efficiently can also burn Hydrogen in the future with very minimal changes to burner settings.

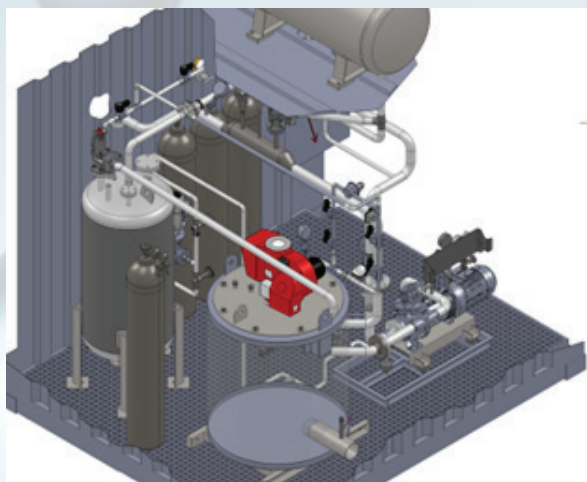
Please contact Limpsfield directly at sales@limpsfield.com or via our website www.limpsfield.com or contact one of our Representatives all over the world as detailed on our Representation page on our website.



Limpsfield Burners are 100% Hydrogen ready

Case Report 1

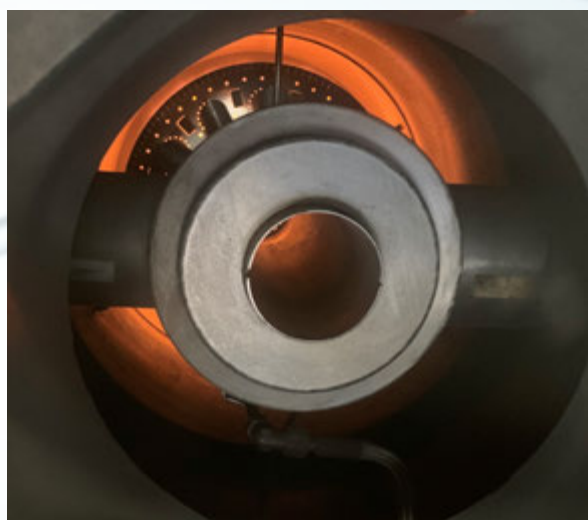
A German company has developed a system where thermal oil is hydrogenated for safe storage and transportation. For this project, the hydrogenated thermal oil (LOHC) was generated in Erlangen and transported by truck to the Fraunhofer institute in Stuttgart. There the hydrogen was recovered by using a catalyst reactor technology. The hydrogen is used in a fuel cell to generate electric energy and in an Ascentec thermal oil system to heat up the catalyst reactor.



The main challenge for Ascentec was to find a small hydrogen burner (50kW) capable of safely firing Hydrogen. They contacted us at Limpsfield because of our previous Hydrogen firing experience and due to our flexible approach to design. Limpsfield successfully manufactured a burner to meet this task.

Case Report 2

One of our USA based customers, PVR Technical Services and a well known Chemical company asked Limpsfield to design a burner that could operate efficiently on Natural Gas and burn their Hydrogen as a "free fuel" when their process made this gas available. Limpsfield took on this task and designed a twin gas combustion head to accommodate the different flame patterns and flame speeds via a simple change over switch without hardware changes.



Please contact Limpsfield at sales@limpsfield.com or via our website www.limpsfield.com or contact one of our many Representatives all over the world as detailed on our Representation page on our website.



Limpsfield Combustion Engineering Co. Limited
Unit 7 Concorde Business Centre,
Airport Industrial Estate,
Main Road,
Biggin Hill,
Kent,
TN16 3YN
United Kingdom



Rep:

+44 (0)1959 576 633

sales@limpsfield.com

www.limpsfield.com