



# IPG press pack

## Boilerplate

IPG is a British clean-tech company, reinventing fuel-based power for the renewable future, to de-risk the transition to alternative fuels and enable businesses to end their reliance on diesel generators.

From the provision of temporary power in construction and mining to grid-independent power for EV charging, fuel-flexible, high-efficiency power generation offers a vital solution for addressing the challenges of decarbonising onsite power in the face of an uncertain and evolving renewable fuel landscape.

The IPG Flameless Generator is a 100 kW modular power solution, delivering pollutant-free power from any renewable fuel. High efficiencies deliver low-cost, low-carbon power on today's fuels, whilst dynamic fuel flexibility enables the transition to the net-zero fuels of tomorrow, as they become available.

IPG is working with leading universities, government agencies and pioneering commercial companies to enable businesses to reduce emissions and improve air quality, without compromising business-as-usual.

## About IPG

- IPG is a clean-tech company commercialising the IPG Flameless Generator – a pollutant-free, fuel-flexible, onsite power generator designed to de-risk the transition to alternative fuels and enable industries to end their reliance on diesel generators.
- Their vision is to reinvent fuel-based power for the renewable future.
- Their mission is to de-risk the transition to alternative fuels and enable businesses to end their reliance on diesel generators
- The first years' sales projection of 100 units has potential CO<sub>2</sub> savings equivalent to 124 million litres of diesel, or 771,000 barrels of oil. This does not account for the CO<sub>2</sub>e saving potential from the NO<sub>x</sub> emissions savings.
- IPG hold one patent on flameless combustion, two patents on integrating ceramics into turbines and one patent on ceramic heat recovery.
- IPG is founded and run by a group of serial entrepreneurs. Their team combines decades of technology and design expertise with a breadth of experience in rapid prototype development and commercial delivery.
- Our Advisory Board includes; Ian Marchant, non-Executive Director of Aggreko, Chairman of Thames Water plc. and former CEO of SEE; Nigel Ellis, Sustainable Energy Consultant at Dunelm Energy and former Technical Development Manager of SEE; Volker Schulte, Senior Industry Expert at Triton Partners (Private Equity) and former CTO/COO of Aggreko and Senior GM at General Electric; Tom Whitehouse, CEO at Leif Capital.



## About the IPG Flameless Generator

- The IPG Flameless Generator is a 100 kW modular power solution, delivering pollutant-free power from any renewable fuel. High efficiencies deliver low-cost, low-carbon power on today's fuels, whilst dynamic fuel flexibility de-risks the transition to net-zero fuels.
- From the provision of temporary power in construction to grid-independent power for EV charging, the IPG Flameless Generator can accelerate the decarbonisation of onsite power generation where grid availability is constraining net zero ambitions.
- The IPG Flameless Generator is made up of three key components: the flameless combustor, the ceramic heat regenerator and the ceramic turbine.
- The flameless combustor performs the chemical reaction of combustion without a flame. This not only creates the environment for multi-fuel operation but prevents the formation of NOx, CO, or particulate matter emissions.
- The ceramic heat regenerator recycles waste heat which maximises efficiencies, reducing fuel usage and associated emissions. It features a honeycomb ceramic structure, designed to maximise surface area for high-temperature heat exchange.
- The turbine has been designed for the use of ceramics, balancing high-temperature performance with strength at speed. It allows for operational temperatures beyond the capabilities of conventional metals, which also improves efficiency.

## Spokespeople

### Toby Gill - CEO of IPG

Toby is the CEO of IPG, a British clean-tech company, reinventing fuel-based power for the renewable future, to de-risk the transition to alternative fuels and enable industries to end their reliance on diesel generators.

A dynamic and innovative leader, Toby draws upon his technical expertise and works closely with IPG's experienced leadership team and Advisory Board to commercialise IPG's breakthrough power generation technology targeted for the EV Charging and Construction industries.

Toby began his career in academia at the London Centre for Nanotechnology, UCL, before going on to start an Agri-tech start-up, prior to joining IPG. Toby holds a PhD in Physics and Chemistry from UCL.

## Further details

For further details or any questions, or to request an interview, please contact Lauren Franklin, Partnerships and Communications Manager at IPG.

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