RNS Number: 8506G

Haydale Graphene Industries PLC

24 July 2023

For immediate release 24 July 2023

Haydale Graphene Industries plc

('Haydale' or the 'Group')

Contract Awarded to Develop Graphene Ink-Based Low-Power Radiator Heaters

Haydale, (AIM: HAYD), the global technology solutions company, is pleased to announce its next collaboration with Cadent Ltd ('Cadent') to develop graphene ink-based low-power radiator heaters. The £350,000 three-stage project will run for 12-months and is seeking to develop a tested and validated market-ready product as a cost-effective alternative for Cadent's

customers when their gas supply is interrupted.

Following continued success on the low-power, battery operated water heating development announced in February 2022

and July 2023, the aim for the latest project is to incorporate the same graphene-ink based technology into different

designs to deliver be poke solutions for a wide range of customer requirements.

Currently, the provision of fan heaters or oil filled radiators to Priority Services Register (PSR) customers, or those in a

vulnerable situation without a gas supply, can be expensive and challenging, particularly for those in ill health, elderly or

disabled customers. Therefore, Cadent is looking for a next generation solution to provide an alternative heat source that is easy to manage and ensures the customer experiences no, or minimal, disruption in their day to day lives. This

development will create a low power alternative radiator heating solution, it will resemble the look of a standard radiator,

so it aesthetically fits in to the home environment.

Development of graphene-based, high conductivity inks and coatings that can be applied to surfaces have the potential to

provide even heating across large areas with a very thin profile. This technology is made possible by Haydale's patented

 ${\tt HDPlas} \\ {\tt @process, which promotes efficient dispersion of nanomaterials and allows the surface chemistry to be altered to the surface of the surfac$

improve the physical and electrical properties.

This project will be completed over three stages, Haydale will provide its time and expertise and work with Cadent to

develop the concept, product specification and design that will integrate with Haydale's printed graphene heater panels to

create a tested and validated solution.

Keith Broadbent, Haydale CEO, saic: "We look forward to our continued collaboration with Cadent on the use of Haydale's

functionalised inks in the energy supply market. Our next generation graphene-based technology has already demonstrated

value with the low-power water heater development. This latest innovation aligns with Cadent's commitment to supporting its customers in vulnerable situations to make them feel safer in an off-gas situation and be able to still live independently

in their home."

Mark Pritchard, Cadent Innovation Specialist, added:

"When a gas supply is interrupted, it can be quite concerning for customers and so our teams work extremely hard to

repair any issues as quickly and safely as possible. We are looking forward to once again working alongside Haydale on

 $this\ innovative\ project\ to\ find\ an\ alternative\ heat\ source\ that\ is\ easy\ to\ manage\ and\ ensures\ customers\ experience\ minimal$

disruption in the event of a loss of gas. Ensuring customers remain safe and warm in their homes is always our top priority and it's particularly important that those in the most vulnerable situations, are able to heat their homes to the optimum

temperature, allowing them to stay warm and live independently."

- Ends -

For further information

TOT TUTTIET HITOTHIALION.

Haydale Graphene Industries plc

Keith Broadbent, Chief Executive Officer Tel: +44 (0) 1269 842 946

Patrick Carter, Chief Financial Officer

finnCap (Nominated Adviser & Broker)

Julian Blunt/Edward Whiley, Corporate Finance

Andrew Burdis, ECM

Tel: +44 (0) 20 7220 0500

Notes to Editors

Haydale is a global technologies and materials group that facilitates the integration of graphene and other nanomaterials into the next generation of commercial technologies and industrial materials. With expertise in graphene, silicon carbide and other nanomaterials, Haydale can deliver improvements in electrical, thermal, and mechanical properties, as well as toughness through its state-of-the-art functionalisation. Haydale has granted patents for its technologies in Europe, USA, Australia, Japan, and China and operates from five sites in the UK, USA, and the Far East.

For more information please visit: www.haydale.com

LinkedIn: Haydale-Itd

Twitter: @haydalegraphene

About Cadent
Cadent is the UK's largest gas distribution network with a 200-year legacy. We are in a unique position to build on strong foundations whilst encouraging the curiosity to think differently and the courage to embrace change. Day to day we continue to operate, maintain and innovate the UK's largest gas network, transporting gas safely and protecting people in an emergency. Our skilled engineers and specialists remain committed to the communities we serve, working day and night to ensure gas reaches 11 million homes from Cumbria to North London and the Welsh borders to East Anglia, to keep your energy flowing.

Future of Gas: Here at Cadent we support the Government's plans to reach Net Zero by 2050. That means we're backing the introduction of hydrogen as a low carbon alternative to natural gas for the future. We know people love the controllability of gas and, with our network already in place, it makes sense to switch to the lower carbon alternative offered by hydrogen, which we believe can keep homes and businesses warm for generations to come.

 $Cadent\ manages\ the\ national\ gas\ emergency\ service\ free\ phone\ line\ on\ behalf\ of\ the\ gas\ industry\ -\ 0800\ 111\ 999*$

Cadent Gas Ltd is owned by a consortium of global investors.

Louise Day

Head of PR & Communications, Cadent

07773118357

Louise.Day@Cadentgas.com

This information is provided by RNS, the news service of the London Stock Exchange. RNS is approved by the Financial Conduct Authority to act as a Primary Information Provider in the United Kingdom. Terms and conditions relating to the use and distribution of this information may apply. For further information, please contact ms@lseq.com or visit www.ms.com.

RNS may use your IP address to confirm compliance with the terms and conditions, to analyse how you engage with the information contained in this communication, and to share such analysis on an anonymised basis with others as part of our commercial services. For further information about how RNS and the London Stock Exchange use the personal data you provide us, please see our Privacy Policy.

END

CNTFLFVSDSILFIV