

United Kingdom, 15th November 2023

SUEZ recycling and recovery UK explore partnership with Circular Fuels Limited to deliver UK's first industrial scale waste to low-carbon LPG replacement plant

- *SUEZ and Circular Fuels are partnering to produce a sustainable liquid petroleum gas replacement from refuse derived fuel*
- *Through the partnership, SUEZ's extensive experience in operating and maintaining energy recovery facilities and in RDF production would complement Circular Fuels Ltd's waste-to-DME project.*

SUEZ recycling and recovery UK and Circular Fuels Limited today announced they have signed a memorandum of understanding to work together to deliver a sustainable liquid petroleum gas replacement from refuse derived fuel, at Circular Fuel's planned plant at Teesworks, Teesside.

As a leading resource management company, SUEZ is proud to be working with Circular Fuels Limited (CFL) to develop low-carbon fuels to support the UK's transition to Net Zero. SUEZ and CFL have entered into an agreement to produce renewable and recycled DME, a low-carbon liquid gas which allows off-grid businesses and households, reliant on LPG, to decarbonise their energy use. It has a low greenhouse gas footprint, reducing emissions over 85% over the project lifetime compared with fossil fuels and is a safe, cost-effective, and clean-burning fuel. It can also achieve over 100% emissions savings when carbon capture is used significantly helping the UK achieve its 2050 Net Zero Target.

SUEZ's role in the Circular Fuels led project is envisaged to be threefold:

- Jointly design and operate the pre-treatment process to produce a refuse derived fuel
- Provide operation and maintenance services for the plant that will produce over 50,000 tonnes of rDME, a liquid petroleum gas (LPG) replacement fuel
- Supply some of the c.250,000 tonnes of RDF feedstock required each year to produce over 50,000 tonnes of low-carbon LPG replacement, providing over 5% of UK's LPG demand

The developer of the plant, Circular Fuels Ltd, sees advanced gasification specialists KEW Technology, join forces with Dimeta (a joint venture comprising the two largest global liquid petroleum gas producers).

The industrial scale plant will deploy KEW's modular advanced gasification units at the scale of the existing operational facility, KEW's Sustainable Energy Centre (SEC), and RenFuD's syngas-to-DME synthesis technology.

Feedstock for the plant will come from household and commercial sources. The non-recyclable waste will go through a pre-treatment process to create a refuse derived fuel to feed the advanced gasification process to produce a syngas. This is then synthesised into

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the liquid petroleum gas replacement fuel, renewable and recycled carbon DME. This sustainable LPG replacement will be supplied at commercial scale from the Teesworks plant as an alternative fuel for the LPG Industry and will contribute towards the sector's ambition to be 100% renewable by 2040.

John Scanlon, Chief Executive Officer at SUEZ recycling and recovery UK, said: *"We're looking forward to deploying SUEZ's extensive expertise in energy recovery to work with Circular Fuels Limited as it scales up production of its LPG replacement fuel for households and businesses. Not only will this offer a fossil fuel alternative for off-grid households and businesses, it provides SUEZ's customers with an innovative solution that reduces the carbon impact of managing their residual waste."*

Renewable and recycled carbon DME is a sustainable fuel that can form part of the UK's transition to a Net Zero economy. It also has the potential to achieve negative CO2 emissions and replace more carbon intensive fuels, such as coal and heating oil."

Ed Hartley, Commercial Director at Circular Fuels Limited, said: *"We're delighted to announce this MoU with SUEZ recycling & recovery UK today. As part of this MoU, we're exploring numerous opportunities to work together, across all parts of the supply chain."*

Seeing the commitment from companies like SUEZ in the development of a circular economy through production of Renewable & Recycled Carbon DME enables its critical role in delivering an energy transition for off-grid areas, and cements the importance of our mission. I look forward to seeing what we are able to achieve together in this partnership."

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Notes to Editors:

[SUEZ recycling and recovery UK](#) employs over 6,00 people, operating across hundreds of sites, and handles in excess of 10 million tonnes of waste materials every year – a significant proportion of the UK's total waste. Through collection, treatment, recycling and logistics operations, it serves more than 30,000 business customers and millions of householders throughout the country. Please visit <https://www.suez.co.uk> to find out more.

About Circular Fuels Limited

Circular Fuels Ltd (CFL) is a subsidiary of Dimeta (a joint-venture between SHV Energy and UGI International; the world's two largest LPG market players), partnered with KEW Technology (a sustainable energy solutions company).

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CFL is a specialised project development company, which develops construction-ready waste-to-rDME production plants using KEW's proprietary advanced gasification technology, a form of Advanced Conversion Technology. Please visit

Learn more: www.circularfuels.co.uk

About KEW Technology

KEW Technology is a sustainable energy solutions company. KEW's advanced gasification solution, a form of Advanced Conversion Technology, provides an innovative approach to tackling climate change by efficiently converting various types of non-recyclable wastes and low-grade biomass into sustainable energy products, such as DME, hydrogen, heat, sustainable chemicals and advanced molecules such as rMethanol, rMethane and SAF. KEW sits at the heart of two parallel market (r)evolutions: the drive to zero carbon emissions and the shift to a zero-waste circular economy.

KEW's technology enables industrial, commercial, and residential energy consumers to achieve net zero energy ambitions and beyond, particularly in harder to abate areas of energy use such as industrial gases, fuels and chemicals for off-grid, industrial, cooking fuels and transport sectors. The challenge to produce sustainable energy and reduce waste is a global issue and one that is likely to have a defining impact on our society for future generations. KEW's technology can provide a viable and cost-effective solution to this challenge, and we are already working with leading corporates on numerous projects globally.

Learn more: **KEW Technology - A world beyond fossil fuels** www.kew-tech.com

About Dimeta

Established in February 2022, Dimeta is a joint venture between SHV Energy and UGI International – the leading global distributors of off-grid energy – developed to further the production and use of dimethyl ether (DME) a low-carbon sustainable liquid gas.

Dimeta is committed to pioneering the advancement of renewable and recycled carbon DME technologies that accelerate the off-grid power market's transition from LPG to sustainable, low carbon energy and contribute to the establishment of a net-zero carbon economy.

By leveraging the expertise, financial assurance, innovation capabilities and distribution power of SHV Energy and UGI International, Dimeta aims to accelerate DME as a versatile and sustainable fuel solution.

Learn more: www.dimeta.nl