

8 Rivers Capital and Sembcorp Energy UK to collaborate on development of the UK's first Net Zero emissions power plant – Whitetail Clean Energy

- *Whitetail Clean Energy is poised to be a 300MW NET Power station at Wilton International, Teesside, capturing and storing its carbon emissions offshore, creating a Net Zero emissions power plant*
- *Major contribution to the 'Levelling-up' agenda with construction planned to commence following conclusion of engineering and the Governmental support process, potentially creating over 2,000 jobs during construction and 200 indirect and direct highly skilled jobs during operation.*
- *First backed by UK Government in 2012 for research and development, the project intends to scale up technology to full commercial deployment, supercharging UK progress towards becoming a Science and Technology powerhouse*

Teesside, UK (JULY 13, 2021) US clean energy innovation firm 8 Rivers Capital, LLC, acting through its UK subsidiary, Zero Degrees Whitetail Development Ltd. (ZDW), and Sembcorp Energy UK (SEUK), part of Singapore-based Sembcorp Industries, announce a collaboration agreement to potentially develop the UK's first NET Power station at SEUK's Wilton International site on Teesside. The Whitetail Clean Energy project (Whitetail) is expected to produce about 300 megawatts (MW) of clean, efficient, low-cost electricity, with potential expansion options in the future.



8 Rivers' UK group aims to advance multiple 300MW facilities in the United Kingdom through its Zero Degrees development business and could commission a NET Power station in the United Kingdom as soon as 2025. The Wilton International site offers convenient port and pipeline access, meaning that all Whitetail's captured carbon dioxide can be conveniently transported to UK sequestration sites to be permanently stored in secure geological formations deep under the North Sea.

Subject to regulatory support and if finalised to proceed, the collaboration agreement signed by ZDW and SEUK constitutes an important US-UK alliance with the potential to support a significant investment in decarbonisation in Teesside. The Whitetail facility is expected to harness the Allam-Fetvedt Cycle (AFC), pioneered by NET Power and 8 Rivers Capital. The process combusts natural gas with oxygen, rather than air, and uses supercritical carbon dioxide (CO₂) as a working fluid to drive a turbine instead of steam. As a result, all air emissions, including traditional pollutants and CO₂, are eliminated and pipeline-quality CO₂ is produced so that it can be captured and stored offshore, making Whitetail a Net Zero emissions plant.

8 Rivers Capital completed a Pre-FEED study for UK deployments of the Allam-Fetvedt Cycle technology earlier this year with funding from the UK Government's Department for Business, Energy & Industrial Strategy. During its construction phase, Whitetail Clean Energy is expected to support over 2,000 direct, indirect, and induced jobs, including cascading supply chain opportunities. The clean energy facility is also expected to support the retraining of power generation engineers with enhanced skills to operate this innovative infrastructure project of national significance.

Energy & Climate Change Minister Anne-Marie Trevelyan said: "The development of the UK's first-ever net zero power station, benefitting from over £6 million government support since 2012 is a real game-changer and a



significant step forward in the UK's fight against climate change as we build back greener from the pandemic. This project not only demonstrates the UK's leadership in helping the world decarbonise but our expertise in scaling up research and development projects, creating over 2,000 jobs in Teesside and opening up opportunities right across the supply chain – supporting our efforts to revitalise this key industrial heartland.”

Cam Hosie, Chief Executive of 8 Rivers Capital, added of the project: “Project Whitetail represents a key step towards Net Zero with the UK and US working in close collaboration. The Allam-Fetvedt Cycle technology was first supported by the UK Government’s Department for Energy and Climate Change in 2012, and the announcement today of the Whitetail Clean Energy project demonstrates the value of supporting research and development projects to support the UK’s efforts to achieve its Net Zero targets, with commercially scaled technologies today returning to the United Kingdom as proven concepts. The UK’s leadership in supporting the Allam-Fetvedt Cycle will lead to significant investment into the United Kingdom and an acceleration in the deployment of NET Power plants in the UK to provide gigawatts of clean power alongside renewable energy to help meet our collective climate goals as fast as possible.”

Andy Koss, CEO of UK & Middle East, Sembcorp Industries commented: “Helping to bring this first-of-a-kind carbon capture technology to Teesside is part of Sembcorp Energy UK’s commitment to reducing the carbon emissions of its power generation assets at Wilton International and to be a leading provider of sustainable solutions. We look forward to working closely with 8 Rivers Capital and its UK group to further boost the region’s support of the energy transition to Net Zero. We are determined to play our part in helping the UK move towards more sustainable solutions for a low-carbon economy, while fulfilling our global strategic ambition to transform our portfolio towards a greener future.”

Ron DeGregorio, Chief Executive Officer of NET Power commented: “NET Power is proud to support 8 Rivers and Sembcorp Energy UK in the development of Project Whitetail. Decarbonising Teesside through NET Power's groundbreaking technology is a critical step towards achieving the UK's Net Zero emissions targets. In addition to those two development partners, the UK Government has been instrumental in supporting this project, and its foresight and leadership on carbon capture and storage should serve as inspiration for the rest of the world to take bold action to achieve Net Zero.”

Ben Houchen, Tees Valley Mayor said: “This is yet another huge boost for Teesside and will see more good-quality, well-paid jobs created first in construction and then the innovative clean energy sector. Sembcorp Energy UK with their Wilton International site is an incredible business in our area.

“Whether it’s carbon capture, hydrogen or renewables, Teesside is already leading the way for the rest of the UK to follow and championing these new technologies. This project complements what we’re doing on the Teesworks site to make Teesside, Darlington and Hartlepool an energy powerhouse in this field. We’re only going to continue to capitalise on new opportunities as the Teesside Freeport gets up and running, bringing with it more investment and jobs.”

Learn more at www.Whitetail.Energy

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ABOUT 8 RIVERS CAPITAL LLC

8 Rivers Capital, LLC is a Durham, NC-based firm leading the invention and commercialization of sustainable, infrastructure-scale technologies for the global energy transition. 8 Rivers Capital is the inventor of the Allam-Fetvedt Cycle, a paradigm-changing Net Zero power solution. 8 Rivers is also focusing on developing and deploying technologies for clean hydrogen and ammonia, direct air capture, retrofit carbon capture, sour gas sweetening, and other advanced energy systems. www.8Rivers.com.

ABOUT SEMBCORP ENERGY UK

Sembcorp Energy UK (SEUK), a wholly-owned subsidiary of Sembcorp Industries, is a leading provider of sustainable solutions supporting the UK's transition to Net Zero. With an energy generation and battery storage portfolio of nearly 1GW in operation, our expertise helps major energy users and suppliers improve their efficiency, profitability, and sustainability, while supporting the growth of renewables and strengthening the UK's electricity system.

Our Wilton International site on Teesside sits within a hub of decarbonisation innovation. At the site, we provide energy-intensive industrial businesses with combined heat and power (CHP) via our private wire network that supplies electricity generated by gas and biomass.

These services are complemented by our fleet of fast-acting, decentralised power stations and battery storage sites situated throughout England and Wales. Monitored and controlled from our central operations facility in Solihull, these flexible assets deliver electricity to the national grid, helping to balance the UK energy system and ensure reliable power for homes and businesses.

Company registration no: 11369893. For more information on Sembcorp Energy UK visit www.sembcorpenergy.co.uk | [LinkedIn](#) | [Twitter](#)

ABOUT SEMBCORP INDUSTRIES

Sembcorp Industries (Sembcorp) is a leading energy and urban solutions provider, driven by its purpose to do good and play its part in building a sustainable future. Headquartered in Singapore, Sembcorp leverages its sector expertise and global track record to deliver innovative solutions that support the energy transition and sustainable development. By focusing on growing its renewables and integrated urban solutions businesses, it aims to transform its portfolio towards a greener future and be a leading provider of sustainable solutions.

Sembcorp has a balanced energy portfolio of over 12,800MW, with more than 3,300MW of renewable energy capacity comprising solar, wind and energy storage globally. The company also has a proven track record of transforming raw land into sustainable urban developments, with a project portfolio spanning over 12,000 hectares across Asia.

Sembcorp is listed on the main board of the Singapore Exchange. It is a component stock of the Straits Times Index and sustainability indices including the FTSE4Good Index and the iEdge SG ESG indices. For more information, please visit www.sembcorp.com.

NET POWER, LLC

The mission of NET Power is to provide advanced clean energy to consumers worldwide by generating lower-cost power with zero emissions. NET Power is a clean energy technology company that promotes, develops, and licenses a proprietary process for efficiently generating electricity from natural gas while capturing all CO₂ emissions. The firm's revolutionary Allam-Fetvedt Cycle promises to enable the world to meet its climate goals without paying more for electricity. The company is co-owned by Exelon Generation, McDermott, 8 Rivers Capital, and Oxy Low Carbon Ventures (OLCV), a subsidiary of Occidental. For more information, please visit www.NETPower.com.