



Pure DC and AVK Deploy Europe's First Data Centre Microgrid

Descrizione

COMUNICATO STAMPA - CONTENUTO PROMOZIONALE

DUBLIN, March 16, 2026 /PRNewswire/ - Pure Data Centres Group (Pure DC), the hyperscale cloud and AI data centre developer and operator, together with AVK, Europe's leading provider of prime, standby and dispatchable power solutions for data centres and AI infrastructure, today announced the launch of Europe's first, large-scale, 110 MW on-site microgrid, developed to support early-phase site operational resilience.

Located within Pure DC's Dublin campus, the on-site energy system provides the opportunity for dispatchable capacity to support data centre operations during initial development phases, prior to full integration with the national electricity system as grid connection capacity becomes available. Over time, the campus is intended to operate as part of a hybrid energy configuration, combining grid-supplied electricity with on-site infrastructure designed to enhance flexibility, resilience and system stability.

This first-of-its kind deployment in Europe showcases the ability to use AVK's microgrid technology for on-site power generation, and the transitional and complementary role it can play in supporting the delivery of strategically important digital infrastructure. This is particularly true in regions where grid reinforcement and renewable generation are being delivered on a phased basis under national planning frameworks.

The microgrid also represents an innovative blueprint for energy generation and showcases how large-scale microgrids can be replicated across Europe - with Germany, the Netherlands and the UK having been identified as key target markets for the technology.

The Mayor of Fingal County Council, Councillor Tom O'Leary, said, "Fingal wants to remain a champion for breakthrough technologies, but we also understand that progress must be delivered in a way that is climate-friendly, resilient and aligned with Ireland's energy transition. That's why this project is so important. A microgrid that can generate and manage its own power, supports future integration into the national grid, integrates renewable energy, enables storage, and trials new

low-carbon fuels like biomethane – this is innovation with purpose.

Pure DC's Executive Chairman and interim CEO, Gary Wojtaszek said: "The biggest barrier to deploying AI infrastructure in Europe today isn't technology – it's power. This microgrid proves that even the most constrained markets can unlock new digital capacity, giving Ireland the opportunity to lead Europe's next chapter of AI infrastructure. The future of AI infrastructure will be built where energy and compute come together – and that's exactly what we're building at Pure."

Speaking about the project Ben Pritchard, CEO, AVK-SEG said, "We are delighted to have worked with Pure DC to deliver this groundbreaking project. While several microgrids are already in operation in the US, until today there were none of these deployments in Europe. This project demonstrates how carefully designed onsite energy infrastructure can complement national energy planning frameworks."

"This recognises that power is now the new differentiator for data centres, and that energy has shifted from being a utility to a strategic asset – shaping the location, design, economics and competitiveness for operators. The first of many in Europe, this microgrid has the capability to revolutionise the data centre power race as we know it – providing a complementary solution that will ease gridlock and pave the way for greater take-up of AI and cloud."

Powering the digital economy

Pure DC's microgrid is comprised of three, interconnected energy centres, with each building generating up to 30MW of power. Energy Centre 1 (EC1) and EC2 will be fully operational by the end of 2026 and will be followed by EC3 at a later stage.

The design includes Combined Heat and Power (CHP) capability, with infrastructure in place to enable heat recovery and potential future connection to district heating networks, subject to third-party demand and regulatory approvals. Waste heat recovery systems are also used to improve operational efficiency within the energy centres.

Future water management measures include rainwater harvesting and on-site treatment, reducing reliance on mains water for engine-related processes.

The system is engineered to accommodate incremental changes in fuel composition, including hydrogen blending, supporting future decarbonisation of the gas network in line with national policy developments.

Pure DC's Battery Energy Storage System (BESS) is integrated to manage load fluctuations and enhance operational efficiency, improving response times and enabling more optimal engine operation. The BESS is designed to support future renewable energy integration as part of a broader transition pathway.

For further information on how Pure is decarbonising its microgrid read more [here](#).

About Pure Data Centres Group

Pure DC builds and operates data centres across Europe and the Middle East for some of the world's largest hyperscalers. With more than 1GW of capacity, live or under development, we

specialise in overcoming complex challenges such as land availability, power constraints and regulatory hurdles. We are committed to driving lasting positive change, reducing the environmental impact of digital infrastructure, and building trusted, long-term relationships with our customers, partners and communities.

For more on Pure DC go to www.puredc.com

About AVK

AVK is the largest and fastest-growing supplier of innovative power solutions for data centres and leading UK and European organisations. We specialise in all aspects of design, planning, implementation, and continuing maintenance.

At AVK, we power tomorrow's data. We are transforming the way the data industry connects to and consumes energy by developing innovative and sustainable solutions. We deploy leading-edge solutions for our clients, helping them to meet their power demands alongside their sustainability goals.

With offices and hubs across the UK and Europe, AVK is in a unique position, in terms of operational scale and delivery capabilities to tackle complex, large-scale, and groundbreaking engineering and energy projects.

AVK - Powering Tomorrow's Data

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