Engineering the UK's efficient AI future

To secure its status as a science and tech superpower, the UK must urgently expand its AI infrastructure. This challenge faces dual pressures: the acute need for immense computational power and the imperative to deliver it more sustainably. Era4 is building a network of sovereign, lower-carbon data centers across the UK.

"This is a race to scale. We needed an infrastructure solution that could be deployed in months, not years."

Nick Hume, Chief Technology Officer, Era4

Additional resources

Case study

Solution: AI, IT Sustainability

Industry: IT Services, Cloud Services

Country: United Kingdom

Objectives

- Build sovereign, lower-carbon, high-performance compute infrastructure
- Create the capacity to underpin the UK's AI ambitions
- Deliver in a way that is more sustainable and energy efficient

Requirements

- Source post-industrialized land, powered by renewable and lower-carbon energy
- Use modular data center design to speed up national roll-out
- Develop commercial plans alongside credible tech partner

Solution

- HPE Data Center Services – AI Mod POD
- HPE ProLiant Compute XD685
- HPE ProLiant DL385 Gen11
- NVIDIA® Blackwell B300 GPUs
- NVIDIA XDR / Spectrum-X Networking
- HPE Factory Express Integration Services
- HPE HPC & AI cluster implementation and deployment services
- HPE Tech Care Service

Key partners

- NVIDIA

Outcomes

- Deploys Private Cloud AI stack in 40 days
- Onboards test customers into production within 50 days
- Runs ~30% more efficiently than the average data center

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