



Secure, Connected and Resilient Technology for Critical Nuclear Operations

As the nuclear sector continues to embrace digital transformation, intelligent infrastructure is becoming essential to safer, more efficient, resilient operations.

At Telent, we combine decades of experience in Critical National Infrastructure with specialist expertise in mission-critical technology, enabling nuclear organisations to keep essential infrastructure connected, operational and secure.

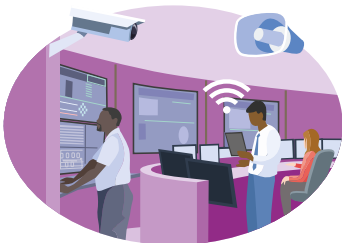
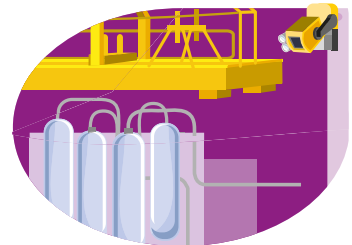
By connecting critical assets, systems, and information across complex environments, we provide the visibility, reliability and control needed to operate these environments effectively, improve operational performance and maintain the highest standards of safety and resilience.

Connecting Critical Nuclear Environments with Intelligent Infrastructure



Nuclear Qualified Systems

Designing and delivering technology solutions for some of the most demanding nuclear environments. Providing qualified systems for corrosive, radioactive and high-temperature locations, alongside seismic-compliant and distributed power solutions that support safe, and adaptive operations across critical nuclear sites.



Network Infrastructure (IT & OT)

Designing and delivering secure, high-performance IT and OT network infrastructure for nuclear facilities. Integrating LAN, WAN, Wi-Fi, SD-WAN and 5G technologies through secure-by-design architectures to enable resilient, compliant and reliable operations across critical sites.

Cyber Security

Protecting critical nuclear infrastructure through cyber assurance, OT security, governance, risk and compliance, managed security services and cyber resilience solutions that strengthen operational security and regulatory compliance.

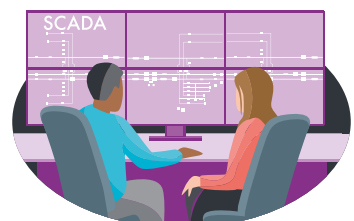


Professional Services

Delivering UK-wide professional services across the full project lifecycle, providing the security-cleared expertise, governance and assurance required to deliver complex programmes in highly regulated nuclear environments.

Control & Automation Monitoring

Delivering integrated SCADA, IoT, remote monitoring and automation solutions that provide real-time visibility, asset intelligence and operational control across safety-critical infrastructure and industrial processes.



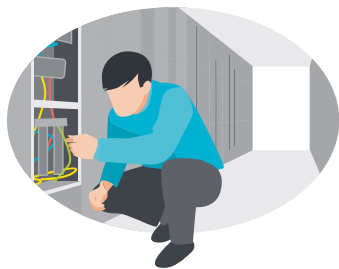


Video Analytics & Surveillance

Providing integrated management of multiple CCTV systems and AI-powered video analytics for existing and legacy systems to automatically detect suspicious behaviour and specific activity scenarios. Delivering monitoring solutions that alert operators to misaligned, dirty or faulty cameras, helping to maximise system performance.

Public Address & Emergency Communications

Designing and delivering critical operational communications systems, including PAVA, emergency voice communications, telephony and radio networks, to support workforce safety, incident response and site-wide coordination.



Cloud & Data Centre

Delivering secure cloud and data centre solutions that support critical workloads across on-premises, private cloud and hybrid environments, enabling scalable infrastructure, data management and operational resilience.

Smart Buildings

Enabling intelligent, efficient and secure facilities through connected sensors, automation and real-time analytics. Optimising building performance, energy management, occupancy and operational effectiveness across complex nuclear estates.



Managed Service

Providing flexible managed ICT services that support, maintain and optimise critical technology environments. From individual service components to fully managed digital estates, ensuring reliable performance, availability and operational continuity.

Delivering Secure IT and Communications Infrastructure for Hinkley Point C and Sizewell C



Telent is responsible for the design, installation and commissioning of the site-wide communications and IT Systems for Hinkley Point C, the first nuclear power station to be built in the UK in almost three decades. Designed to connect people, systems and assets across one of Europe's largest construction sites, the solution supports safe, reliable and resilient operations through an integrated digital communications infrastructure.

Building on this experience, Telent has begun a major contract to deliver the site-wide IT and communications infrastructure for Sizewell C. The programme will apply the proven design developed for Hinkley Point C, using an assured and fully compliant blueprint already approved for use at a UK nuclear power station. By leveraging lessons learned and a proven delivery approach, Telent is helping to reduce programme risk while supporting greater efficiency, consistency and long-term operational resilience.



Together, these projects demonstrate Telent's ability to deliver secure digital infrastructure for complex nuclear environments, supporting the UK's energy security ambitions and the next generation of nuclear power.



Delivering a project of this scale requires trusted partners with proven experience in safety-critical environments. Telent's track record in the nuclear sector, combined with its expertise in secure and resilient communications, gives us confidence that the IT and communications infrastructure at Sizewell C will support safe, reliable operations throughout the life of the power station.

Sebastien Bachere, Nuclear Island Program Director – Sizewell C



Find out more about
Telent's work in the
Nuclear sector

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