

# Designing, building & supporting operational technology networks

In today's rapidly evolving utilities sector, robust IT infrastructure is the backbone that ensures seamless operations and efficient service delivery.

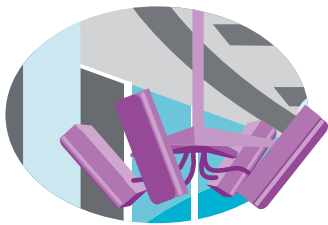
Utilities rely on advanced IT systems to manage and monitor critical infrastructure, optimise resource allocation, and enhance customer engagement. Telent, with its extensive expertise in providing end-to-end IT solutions, empowers utilities to harness the power of technology, ensuring reliability, security, and innovation in their operations. From smart grid management to real-time data analytics, Telent's IT solutions enable utilities to meet the demands of a modern, connected world.

# Telent has a pedigree in Critical National Infrastructure



## Field Services

A UK wide field-based engineering team with capabilities across multiple technologies, experienced in supporting Critical National Infrastructure and certified to operate in a range of challenging environments.

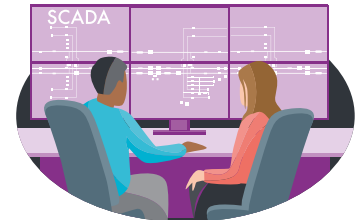


## PAVA System

Our experience with Public Address & Voice Alarm systems spans many industry areas, including the design and installation of the UK's largest PAVA system at Hinkley Point C.

## SCADA

Working with specialist technology partners, we provide tailored software platforms designed to meet requirements integrating infrastructure, network, and software components.



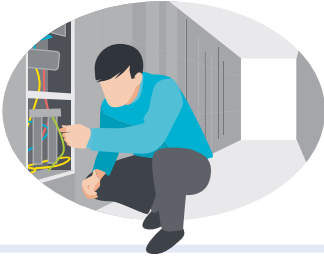
## Cyber Security

A suite of services that ensure your organisation is protected against cyber-attacks, spanning governance, risk and compliance (GRC), security assessment and IT security solutions.

## Control & Automation

Telent's control and automation solutions for utilities integrate and manage diverse systems, ensuring efficient operations and real-time monitoring for critical infrastructure.



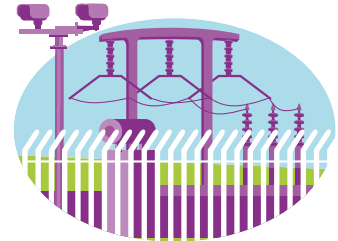


## Cloud & Data Centre

Proven experience with compute and storage solutions from demanding applications across on-premises, data centre, private cloud and hybrid environments.

## CCTV

Ensure safety and security with advanced CCTV systems. Telent excels in integrating and commissioning new IP-based systems while managing the migration of legacy systems.

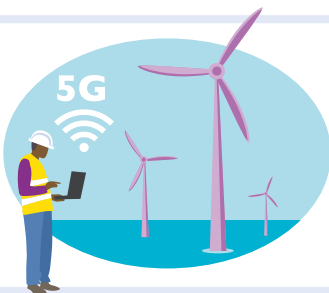


## Private Radio Systems

Telent designs, installs, and supports private radio and microwave systems for utilities. With expertise in PMR, TETRA, DMR, and LTE technologies, Telent provides solutions for mobile communication between onsite staff and mission-critical communication applications.

## IT & OT Networks

Telent's modern network solutions combine wired, wireless, and SD-WAN technologies with built-in security and AI management applications to optimize network performance, ensuring reliable and secure connectivity for critical infrastructure.



## 5G Private Networks

Providing high-performance, secure connectivity for mission-critical applications, ensuring reliable communication across utility facilities and power plants.

## S82 Continuous Water Quality Monitoring

An automated, remotely deployed solution for Section.82 of the Environment Act 2021, requiring sewerage undertakers to continuously monitor the quality of water upstream and downstream of their assets.



## Five years on: Telent hits major design phase milestone for Hinkley Point C



Situated in Somerset, Hinkley Point C (HPC) is the first nuclear reactor to be built in the UK in almost three decades. HPC will provide 7% of the UK's electricity for the next 60 years and deliver a low-carbon energy source to six million homes.

In 2019, Telent was awarded the multi-million-pound contract by EDF NNB to design, install and commission a multi-faceted communications and IT system for HPC. The communications network that will connect everyone and everything within the nuclear power plant is the epitome of mission-critical. Network downtime, even for a short period of time spells productivity loss and potential safety issues for workers and those in surrounding areas.

Telent will deliver a fully integrated communications network that consists of public address alarm systems, multi-service on-site radio, wireless local networking, telephony, CCTV and emergency power backup for critical systems. The solution is being delivered under the exacting demands of a nuclear power plant in terms of technologies, quality and processes.

For efficient communications and announcements to the entire plant, the local area network enables a secure wireless connection and ethernet services for the communication between on-site staff via mobile phones, laptops and other devices. The network infrastructure supports a unified communications and messaging platform consisting of microphones, loudspeakers, alarms and visual TV screens that support a consistent set of voice, video and messaging capabilities. The site wide IP network requires over 6,000km of cabling and provides around 6,000 data points.

Find out more about  
Telent's work in the  
Energy & Utilities sector

 [www.telent.com](http://www.telent.com)




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