

CASE STUDY: ENERGY

NUCLEAR POWER PLANT, UAE



To reduce the nation's reliance on legacy oil-based electricity generation, the United Arab Emirates has been investing in nuclear power. With the ground-breaking ceremony for this nuclear facility held in March 2011 and construction completed in May 2018, the power plant is expected to deliver up to a quarter of the UAE's electricity needs.

Background

With this critical infrastructure facility required to meet the most stringent safety and security standards, multiple layers of physical security were needed to enable authorised entry to the site, while preventing unauthorised access to any internal controls systems. The high-performance intrusion detection system installed on the perimeter fence also needed to work effectively with a variety of high security barriers. A second layer of protection focussed on the real-time advanced warning and detection of third-party activity on critical, internal data communication cables that could indicate attempts to disrupt or take control of the nuclear power plant's processes or equipment.

Requirements

- ✓ Intrusion detection of climbing and cutting
- ✓ Data Network Cable advanced detection of attempted interference
- ✓ No impact on data cable data capacity, or latency
- ✓ Integration with CNL controlling all CCTV
- ✓ High detection combined with Low Nuisance Alarms
- ✓ Cost effective for both installation and ongoing maintenance
- ✓ Low environmental nuisance alarms
- ✓ Intrinsically safe - no power in the field
- ✓ Immune to RFI/EMI and lightning

Our Solution

FFT was able to meet and exceed all operational and physical security requirements with its Aura platform solution. The systems deployed at the nuclear power plant delivered the highest situational awareness on the perimeter and data network with minimal nuisance alarms. With 20 years' experience in the real-world deployment of advanced fibre optic sensing solutions and proven track record of successfully delivering both perimeter and data network security applications that performed to the highest standards, the client determined that only FFT could meet the safety and security standards of this critical infrastructure facility.



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