EcoStruxure™
Innovation At Every Level

To support a digitally connected learning environment, IT professionals trust the

CERTAINTY

of EcoStruxure Data Center Solutions from Schneider Electric.

The Connected Learning Environment and Industry Trends

The educational landscape is undergoing dynamic and rapid change, transforming towards a more digital and connected learning environment for students and educators. With the Internet of Things (IoT) and device connectivity continuing to change industries, the learning environment today, complete with video conferencing and virtual teaching, looks vastly different from just five years ago; a shift that will continue to change over the coming years.
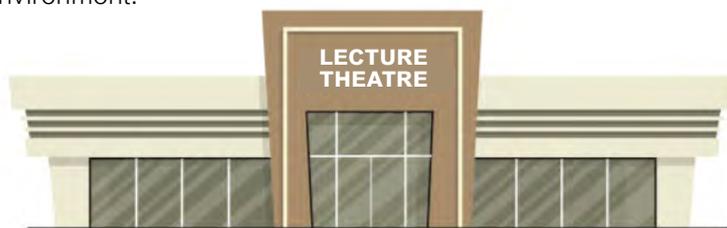
Remote learning, online education and the shift to digital experiences, including AR and VR, have placed increased demands on existing IT infrastructures, connectivity and conventional technology resources. In a world where education is everything, digital transformation is fast becoming the make-or-break factor for schools, colleges and universities. We at APC by Schneider Electric™ understand the challenges of a digitised education ecosystem and offer a broad variety of connected infrastructure solutions to increase resiliency and mitigate downtime.

96%* of teachers believe that technology has a positive impact on education. Digital technology in learning environments is transforming the way schools teach and students learn – bringing both efficiencies and higher levels of engagement.

64%* of parents assert that tech has become more integrated into the way teachers teach and students learn, with 93% believing technology is a valuable tool in student learning.

Learning Environments in the Era of Digital Transformation

The landscape for educational institutions has transformed dramatically moving towards a more digital and connected environment for both learners and educators. It presents new opportunities to deliver teaching in innovative and interactive ways, blending new connected technologies with traditional physical methods to offer a diverse and dynamic education environment.

LECTURE THEATRE

Learning Environments in the Era of Digital Transformation

Lecture theatres

Student halls & dormitories

Learning environments

Immersive virtual learning

Remote and home learning

*Source: EdTech Magazine, 2020

The Three Key Challenges of IT Deployments

Capacity and power

The ongoing shift towards digital learning requires an exceptional supply of connected power and capacity from back-end systems to ensure all online activity can be accessed off-site, at any time, from anywhere in the world. With remote online teaching becoming more popular to increase student accessibility levels, this capacity demand is only going to continue growing.

Strain on existing infrastructure

Existing technology equipment does not have sufficient capacity to support the vast new demand for online teaching. Existing infrastructure is fast becoming out-dated with new developments like IoT and 5G. With universities welcoming anywhere between 5,000 to 100,000 students, the strain on the digital infrastructure in place may result in downtime, outages and service disruption if it is not appropriately maintained and upgraded.

Delivering maximum uptime

As with many sectors, education cannot countenance downtime. Risking hundreds if not thousands of students going without quality teaching standards, even just temporarily, is not an option. With a continually developing focus on connected devices and integrating digital infrastructure into everyday teaching, the need for efficient and secure systems delivering maximum uptime is of paramount importance when considering mission-critical performance.

How Does APC by Schneider Electric Address IT Deployment Challenges?

EcoStruxure Micro Data Centers™

Pre-integrated IT physical infrastructure systems are shipped to site fully assembled and are created in conjunction with leading converged and hyper-converged vendors. They feature rapid deployment for large and geographically dispersed educational campuses, offering high performance connectivity, secure data storage and physical protection from human error.
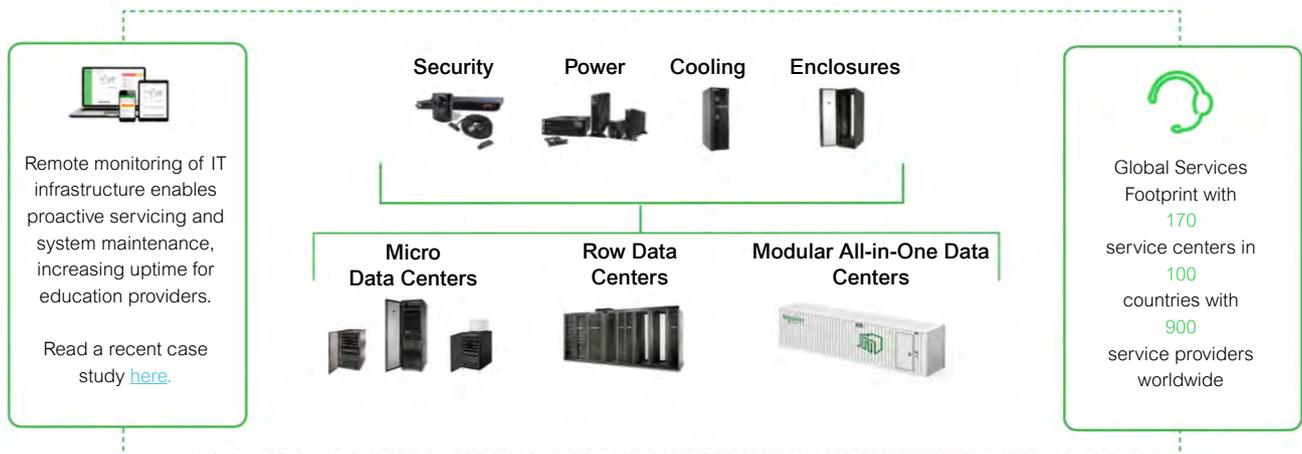
Resilient power products

Education and IT providers can operate efficiently and safely by utilising solutions such as APC by Schneider Electric's Smart-UPS Uninterruptible Power Supplies (UPS), providing resilient backup power for critical IT. Should a power outage or unplanned event occur, using a UPS system guarantees reliable and immediate backup power, protecting the infrastructure to ensure digital education continues uninterrupted.

Data-driven remote management

With Schneider Electric's EcoStruxure™ IT software, education providers can remotely monitor and manage their distributed IT and critical power systems to minimise downtime. Through data-driven insights and real-time updates detailing system health and status, the vendor-neutral management platform offers secure, simplified and continuous monitoring for a digitally connected experience.

EcoStruxure™ Solutions for Any Environment of Any Size

Remote monitoring of IT infrastructure enables proactive servicing and system maintenance, increasing uptime for education providers.

Read a recent case study here.

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