



# Smarter technology for all

# Lenovo

Powered by

**intel**<sup>®</sup>

## How utility providers can make smart grids more efficient

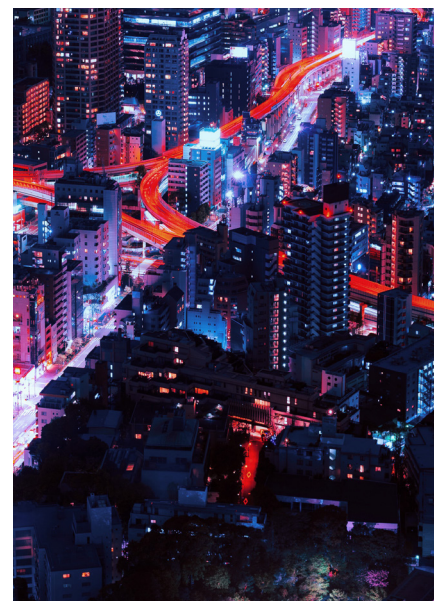
The utilities industry is changing, and customers are placing new demands on energy providers every day. From increased vehicle charging stations to better heating and cooling systems, these sources drain power from the grid. Having the right IT infrastructure is key.

Discover how Lenovo and Intel<sup>®</sup> technology can help you improve efficiency and sustainability. While continuing to protect employees, improve operations, and deliver safe and reliable service amid growing demands.

## Everything you need to stay smart

Our end-to-end technology, services and solutions - from the phone in your pocket to the hybrid cloud that powers your business, Lenovo puts you on a smarter path to achieving your goals.

We deliver a difference that matters. One that helps you transform with purpose, while reducing downtime and increasing productivity. Powered by Intel<sup>®</sup> processors, our ThinkStation P Series workstations offer everything your IT team needs, delivering all the performance and security benefits, with ultra-fast responsiveness, instant wake and long-life battery.



# Lenovo and Intel technology in the field

A truly smart grid is monitored and managed in real-time. With quick access to insights and the right approach to data analytics and technology, your smart grid not only helps you keep up with demand, it also improves safety, security and resiliency.

## Create safe working environments with AI

Make the most of powerful AI tools such as generative AI, machine and deep learning, large language modelling, data science and data analytics. Add computer vision, issue detection and security solutions with support from our partners at Intel.

With Lenovo and Intel technologies, you can stay connected to what's important and protect your employees and infrastructure.

- Improve visibility in high-risk zones and avoid accidents by geotagging employee passes and/or equipment
- Collect real-time insights with AI, security cameras and IoT sensors
- Ensure employees safety and monitor equipment in remote locations such as high-voltage job sites

## A secure grid

Securing IT, OT and IoT across the grid is crucial for maintaining service continuity and increasing efficiency both in operations and delivery. With an expert technology partner, you can stay ahead of security threats and provide a reliable supply of energy to all consumers while staying compliant and adhering to regulations of different geographies.

- Quickly resolve challenges before they turn into issues with data-powered insights at the right time
- Intelligently monitor and secure grid and energy flow with robust ThinkShield security solutions
- Support employees to work across the grid while staying safe from bad actors

**Our ThinkSystems, like the Lenovo ThinkSystem SR650 V3, powered by 5th Gen Intel Xeon® Scalable processors are designed for AI, helping you put the power of AI inferencing to work everywhere, including at the Edge.**



**Whether your staff work centrally or in the field, low latency solutions can support large quantities of data, securely and reliably. Ongoing digitalization in utilities makes the industry particularly vulnerable. Our ThinkShield solutions protects all levels of your operations, from the mobile workforce to headquarters and beyond.**



## Meet your environmental and social governance goals

You can protect your business over the long term when you build a strong reputation for sustainability. With Lenovo Asset Recovery Services (ARS), you can manage your end of life IT assets in a secure and environmentally conscious way while optimizing the value potential of your hardware. ARS complies with the highest industry standards, including R2 certification.

## Improve your business and operational resilience

Our solutions boost your operational resilience. With the right data-powered insights at the right time, you can quickly identify and resolve challenges before they turn into issues.

- Process data at the Edge, with Lenovo ThinkEdge solutions, or with Lenovo's powerful and robust ThinkSystem servers
- Monitor infrastructure across the grid with Lenovo's AI-enabled solutions, gathering insights needed for predictive maintenance and avoiding unplanned downtime
- Identify and report faults and hazards such as leaning utility poles or "vegetation intrusions" onto sites or power lines before they cause downtime or issues

**Lenovo's ThinkStation together with ThinkSystem SE350 Edge Server offer intelligent connectivity, security and manageability in demanding environments, helping utilities providers collect real-time insights from the Edge.**

## Don't just take our word for it

In Barcelona, technology like City OS – an open data infrastructure – and data analytics are improving the quality of life for residents by enhancing sustainability and urban services. Lenovo is supporting this project with our intelligent solutions, which have improved the flow of traffic on the streets and reduced emissions.

## Want to talk about what we can do for you?

Contact your Lenovo Energy representative  
[www.lenovo.com/energy-solutions](http://www.lenovo.com/energy-solutions)

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