



Smarter
technology
for all

Lenovo

Powered by

intel®

How renewable energy providers can stay ahead of the curve

As a renewable energy provider, you're already ahead of the curve. With the right technology provider, you can stay there.

By 2026, nearly 50% of electricity generated across the globe will come from low-emissions energy sources including nuclear

and renewables such as solar, wind and hydro.

Discover how Lenovo and Intel® technology can help you keep pace with changes in the sector and work towards a more sustainable future.

Adapting to an evolving energy landscape

Our end-to-end, innovative technology, including our ThinkStation P Series workstations, powered by Intel® processors, deliver powerful performance and work to mitigate downtime and increase productivity. This solution offers all the benefits of performance and security, with ultra-fast responsiveness, instant wake and long-life battery.

All of this protects employees, avoids unplanned downtime and builds more efficient sites, so you can deliver more value for your customers and establish the right foundation for the future.

“The transition from fossil fuels to renewable energy is gathering pace, and we are building up our business to meet demands. Our scalable Lenovo and Scale Computing HC3 hyperconverged infrastructure will grow with us as we expand operations and enter new markets.”

Johannes Niemi Nikkola
ICT Manager, Ampner Oy

Our commitment to you



Stay secure, from the mobile workforce to the headquarters

Digitalization in renewable energy is particularly important, and we're here to help: with ThinkShield, we layer security solutions on top of your systems, safeguarding your infrastructure.



Meet your environmental and social governance goals

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.



Make the most of powerful AI technology

We'll support you with generative AI, machine and deep learning, large language modelling and data analytics, while our partners at Intel offer computer vision expertise. Read more about our AI solutions below.

Lenovo and Intel technology in action

On-shore or off-shore, we can help you monitor, manage and improve solar, wind, thermal and hydro operations in real time.

Create safe working environments

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 to stay ahead of incidents
- Monitor conditions and equipment on remote sites – like offshore wind farms – to foresee challenges

Lenovo can also deliver virtual reality solutions for virtual training and remote assistance. Meaning your experts don't always have to be on site.

- Help employees immerse themselves in their training safely, wherever they are, and whenever they need it using AR and VR
- Start initial training in safe, repeatable environments – before sending employees on-site to work with machinery
- Reduce the need for experts to visit remote sites, with Lenovo's ThinkReality solution enabling remote collaboration



Lenovo ThinkSystem SR650 V3, powered by 5th Gen Intel Xeon® Scalable processors are designed for AI, helping you work everywhere, including at the Edge.

Optimise operations with real-time insights

At the Edge, you need real-time insights to act quickly. Our powerful ThinkEdge and ThinkSystem servers, powered by Intel processors give you access to site data so you can plan accurately and tackle challenges before they become serious.

- Gather real-time insights about the condition or status of equipment across sites, so you can respond to issues before they become bigger problems
- Monitor equipment health with real-time data and order new parts, such as turbines and solar batteries, ahead of time, to manage ongoing maintenance and supply chain of products
- Quickly identify the right engineer to fix an issue efficiently and safely, avoiding expensive downtime or unnecessary risk
- Mitigate the impact of the wake effect with our wind farm control solution, which automatically aligns upstream turbines to improve performance downstream

Lenovo ThinkStation and ThinkSystem deliver intelligent connectivity, security, and manageability in demanding environments, allowing renewable energy providers to collect real-time insights at the Edge.

Plan for the future with a digital twin

Building the renewable sites of the future requires improved planning. With AI and ML, you can make data-driven decisions and strategize, predict and analyse your operations, helping you better plan for the future and improve your green credentials.

- Feed insights into a digital twin and use it to map out and model how future changes will impact your site's performance
- Make the most of your data and gain insights to make your sites more sustainable and efficient
- Help your team work productively with low latency solutions that support large quantities of data securely and reliably from anywhere
- Maximize resources and cut waste with a better view of the health of all your assets across your site

Reduce your energy costs by 40% with Lenovo's Neptune™ liquid cooling in the ThinkSystem SD650 V2. It delivers far greater performance compared to air-cooled systems.

Want to talk about what we can do for you?

From the safety of your sites, to your commitment to the environment and the security of your networks – Lenovo delivers a difference that matters and helps you transform with purpose.

Contact your Lenovo Energy representative
www.lenovo.com/energy-solutions