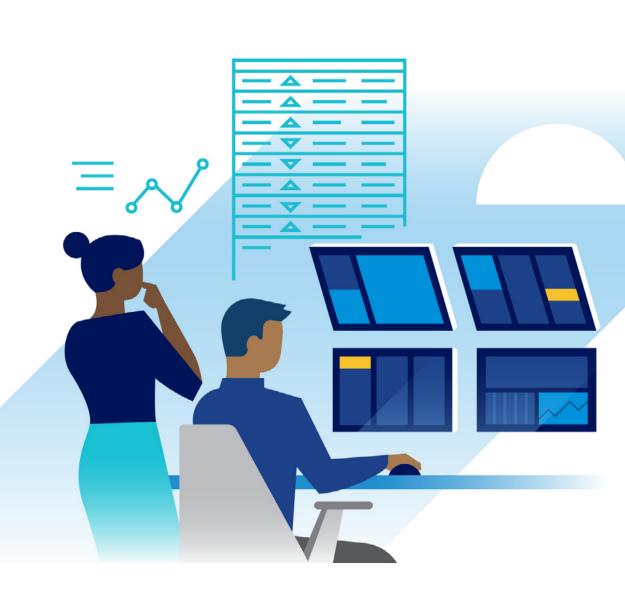
Championing IT-OT convergence for utilities



Utilities businesses today face unrivalled market conditions. While it's a time of huge growth in demand and usage, there are also many challenges: from the ability to manage supply chain fluctuations, to securing critical infrastructure, and improving business productivity. VMware helps utilities organisations to keep the lights on—working with them to digitise operations, so they can better manage their increasing data volumes, and the challenges this creates.

It's a time of great change for utilities

Greater focus on sustainability,

Fundamental changes in the global energy mix, with **80-90% of** generation expected to be renewable by 2050ⁱ

with 64 countries pledging or legislating achieving net zero in the coming decadesⁱ

regulatory risks, e.g., the UK government enabling unlimited fines for environmental pollution

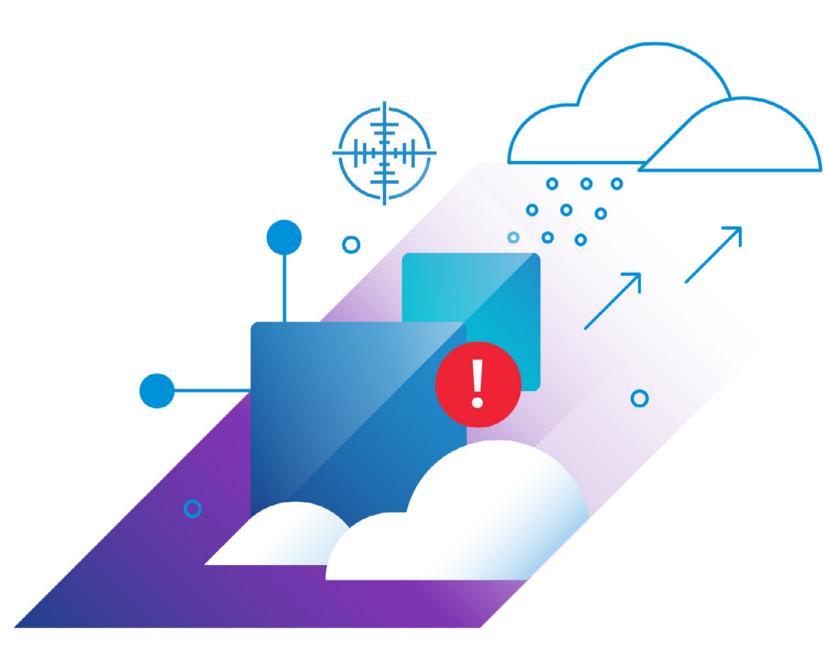
Increasing political and







And this is creating a host of business challenges



resilient and responsive operations.

• Shift to renewables, with less predictability in supply

• More power outages due to

extreme weather

- Energy supply and supply
- chain volatility • Increase in cyber-attacks
- targeting critical infrastructure Greater regulatory and
- Technology skills and talent shortages

compliance requirements

It's why utilities businesses today—particularly those with aging networks and legacy

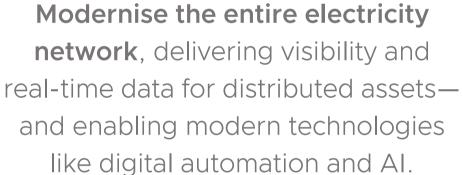
infrastructure—are recognising the need for new digital infrastructure to deliver modern,

In 2022, cyberattacks targeting critical infrastructure jumped from comprising 20% of all nation-state attacks detected, to 40%."

VMware provides utilities businesses with a platform for virtualisation, edge computing, connectivity, and security, across both IT and OT domains—

How do we help?

as well as modern workforce management for teams working anywhere, from the office to the field. We also provide a platform for modern apps to deliver information and intelligence, wherever and whenever it's needed. We help organisations to:



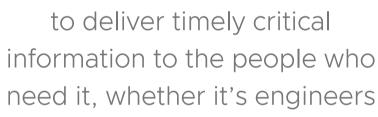
Deliver high-performance,

low-latency computing at the edge,

enabling real-time applications and

data-intensive processes with built-in

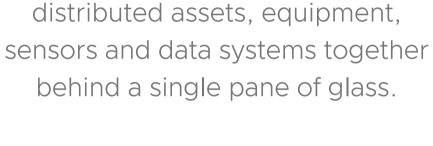
security and scalability.



Create modern apps,

in the field or customers.

Make workforces more productive

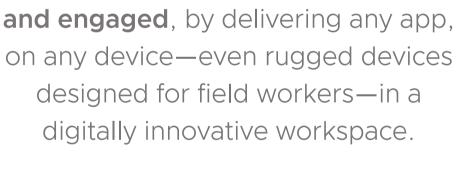


Maximise resilience and uptime,

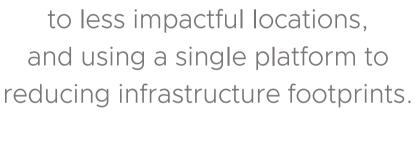
securely connecting together

Deliver on sustainability

promises, moving workloads



Renewable generation is projected to reach 80-90% of the global energy mix by 2050.



Making the right choice

We're uniquely positioned

to help utilities businesses.

We make it easier to move We enable businesses to make the workloads where they need to be—to most of data from multiple devices, make them more responsive, closer to source, or more energy efficient, which reduces carbon footprint.

We provide consistent operations,

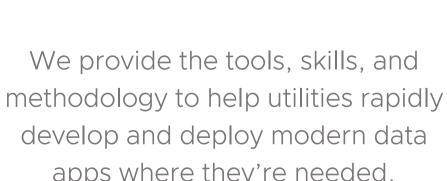
delivering more predictable costs



to innovate and keep on top of

We reduce risk and ensure compliance across the organisation and the supply chain.





and savings. apps where they're needed.

Global build-out rates for solar and wind grew

by a factor of five and eight respectively in 2022.



Delivering your electricity UKPN wants to transform its grid into an

Duke Energy wanted a new way to manage

its power network data, so that it could deliver better customer service. With VMware Tanzu, we enabled the Duke team to aggregate data from all it sources, including customer reports and grid information, and integrate tools like VR and AI, to deliver insights and info direct to customers in

near-real-time.

For more information on our work with utilities,

visit our website here or email the VMware team

intelligent, environmentally clean power

system, so it can safely release more capacity

and connect more renewable sources. We're

supporting this through our software-defined

systems, enabling centralised control of

distributed assets, including power stations.

i. https://www.mckinsey.com/industries/oil-and-gas/our-insights/global-energy-perspective-2022

ii. https://blogs.microsoft.com/on-the-issues/2022/11/04/microsoft-digital-defense-report-2022-ukraine/