

Focus on Energy and Utilities

The edge ecosystem is rapidly developing in energy and utilities. Our research uncovers the trends to help you start strategically planning and investing for securing this dynamic shift in computing.

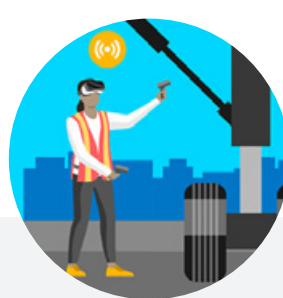
Based on survey results from the 2023 AT&T Cybersecurity Insights Report: Edge Ecosystem.

What are the common characteristics of edge computing?

Software defined
Cloud - private or public or on-premise

Data driven
Closer to user creation and consumption

Distributed configuration
Intelligence, networks, and management

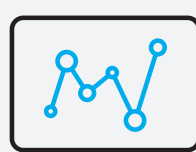


Think of the edge ecosystem as a new opportunity for competitive differentiation and business outcomes.

Primary use case



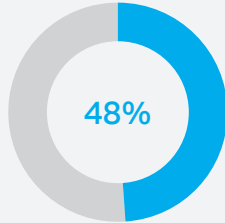
2022 Remote-control operations



2023 Intelligent grid management

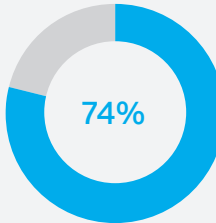
Energy and utilities edge computing benchmarks

Top endpoint



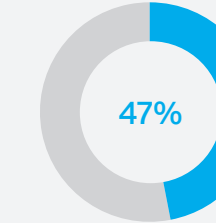
Mobile devices

Top network



Private 5G

Top configuration



Combined cybersecurity and networking functions on-premises

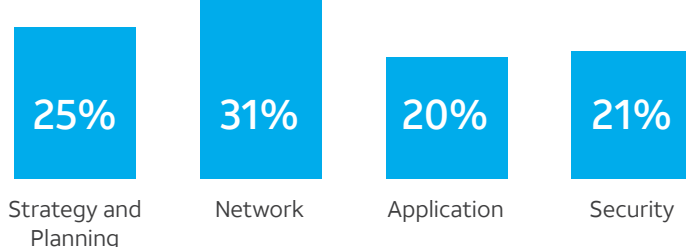
The Opportunity: creating a secure edge computing ecosystem in energy and utilities

Three key initiatives emerged as respondents reported the changes they are making.

1

Proactive investing

Respondents anticipate change and are allocating resources accordingly.



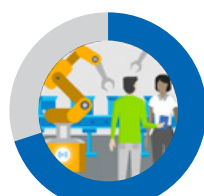
2

Cross-functional collaboration

Respondents report value in tapping both internal and external ecosystem expertise.



59% use external expertise in project planning



70% use external expertise in production

3

Dynamic cyber resilience

The edge ecosystem requires new thinking. It's constantly evolving, and legacy thinking won't solve emerging challenges.

Use cases anticipated in next three years:

44% of use cases are IoT, IIoT, and OT



Prepare to secure your edge ecosystem



Define your edge computing profile
Work with lines-of-business on use cases. Include business partners and vendors to identify which initiatives impact security.



Develop an investment strategy
Bundle security investments with use case development. Evaluate investment allocation and include a security budget.



Increase your compliance capabilities
Regulations can vary significantly. Keep up with tech mandates and compliance by tapping advisors with expertise.



Build-in resilience from the start
Evaluate investment allocation as use cases multiply. Consider bundling security expense with use case development.



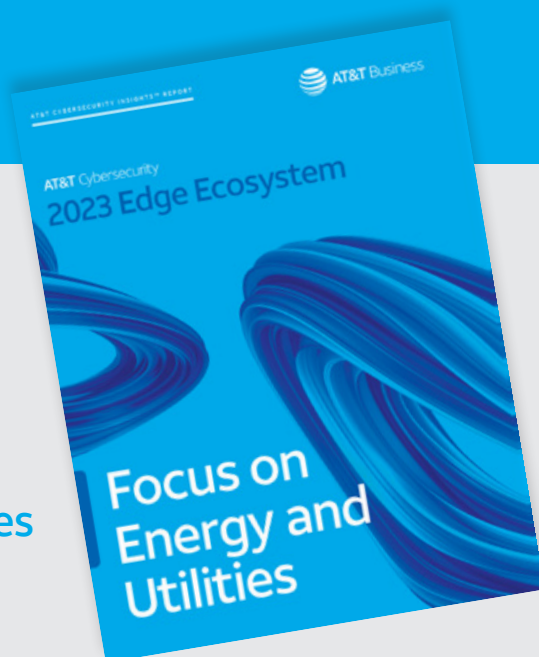
Align resources with security priorities
Collaboration expands expertise and lowers resource costs. Edge use case security experts can help streamline use case development.



Prepare for ongoing, dynamic response
Use cases require high-speed, low-latency networks; at the same time, network security and cybersecurity controls will converge.

Get the 2023 AT&T Cybersecurity Insights Report: Focus on Energy and Utilities

Download



About the research

Research conducted during July and August 2022. We surveyed 1,418 security practitioners from the United States, Canada, the United Kingdom, France, Germany, Ireland, Mexico, Brazil, Argentina, Australia, India, Singapore, and South Korea. Respondents come from organizations with 1,000+ employees, except for US SLED and energy and utilities verticals. Respondents were limited to those whose organizations have implemented edge use cases that use newer technologies such as 5G, robotics, virtual reality, and/or IoT devices. Respondents are involved in decision-making for edge use cases, including cybersecurity, that involves new technologies such as 5G and IoT devices. For certain questions, participants could choose more than one response. In these cases, the responses do not round to exactly 100%. More information is available in the full report. <https://cybersecurity.att.com/insights-report>