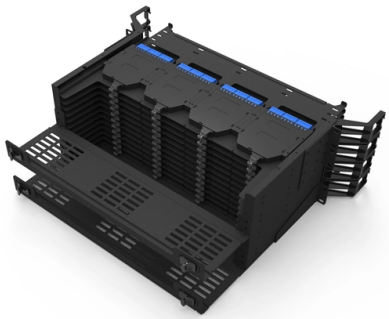
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Industry Risks of the Energy Internet



Overview

Researchers from Carnegie Mellon University warned that the rapid expansion of AI infrastructure, electrification, and grid modernization is creating long-term security and supply chain risks tied to dependence on Chinese-controlled energy and electronics technologies. Digitalization has blended physical infrastructure – including energy assets – into digital networks making it vulnerable to cyberattacks. This article is part of: World Economic Forum Annual Meeting Geopolitics, economic forces and market dynamics link energy security and the climate crisis. The power sector ranks among the top 5 most attacked industries. These energy businesses must navigate their way through increasingly. ions for each attack stage. They could also help to accelerate clean energy transitions.

Article Content

Researches on Legal Risks of Data Use by Energy Internet Companies

The massive corporate data of Energy Internet companies is both an untapped “digital gold mine” and a legal risk that cannot be ignored if not handled carefully. The purpose of this research is to establish

Digitalization: a threat and opportunity for energy

Whether attackers want money or seek to paralyze a rival nation, the energy sector makes an attractive target. Industry surveys show that the volume

Energy Internet: State of the Art and Challenges

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

The Energy Internet is expected to transform the landscape of electricity generation portfolio, distribution, and consumption through the integration of advanced sensing, communication, and

Cybersecurity in the Power Sector: 2025 Grid Defense Guide

Hackers from nation states to cybercriminals now target energy networks to disrupt operations. Utilities must safeguard everything from power plants and substations to smart meters

Cyber security and resilience guidelines for the smart energy ...

These energy businesses must navigate their way through increasingly changing and risky business environments, while continuing to provide and improve their services to end users. Challenges

Trustwave Risk Radar Report

ions for each attack stage. In this report, we delve into the unique cybersecurity challenges facing the energy and utilities sector, which is increasingly targeted due to its critical role in supporting national.

Cyber resilience – Power Systems in Transition –

The capacity to adapt to new technologies – as well as to new risks and threats – is key. Policy makers, regulators, system operators and industry across the

Energy Sector Defense: Navigating Cybersecurity

As environmental agencies and utilities modernize their infrastructure and adopt digital technologies, they face heightened risks from cyber threats.

Cybersecurity Issues and Challenges in Internet of Energy (IoE)

This Special Issue (SI) addresses the pressing need to develop scalable, adaptive, and innovative cybersecurity solutions for IoE. Given the critical role of energy systems in modern infrastructure,

CMU''s Electrotech Moneyball paper warns China-linked AI, grid ...

Researchers from Carnegie Mellon University warned that the rapid expansion of AI infrastructure, electrification, and grid modernization is creating long-term security and supply chain

The great energy pivot: US oil and Chinese solar are the winners in ...

The energy crisis means countries are scrambling to secure their energy supplies in the coming weeks and months, but many will be thinking decades ahead too.

Britain at risk of mobile signal rationing as energy costs soar

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Industry executives are frustrated at Labour''s decision to exclude telecoms companies from a recent support package aimed at shielding businesses from soaring energy costs.

Big Tech''s data center boom poses new risk to US grid

The risk of power outages will only grow as new data centers come online, the NERC forecast in a December report. Nearly all of the United States

Industry – Computerworld

Industry | News, analysis, features, how-tos, and videos

WACC by Industry (2025–2026): Practical Cost of Capital Benchmarks

Looking for a realistic WACC by industry to use as a starting point? This table provides industry-average WACC (cost of capital) benchmarks you can use to sanity-check your assumptions

Operational Risk, Safety, Sustainability Management

In a world of accelerating change, fragmented systems create blind spots. Sphera unifies risk, safety and sustainability into a single enterprise-wide view —

Researches on Legal Risks of Data Use by Energy Internet Companies

The massive corporate data of Energy Internet companies is both an untapped “digital gold mine” and a legal risk that cannot be ignored if not handled carefully. The purpose of this research is to establish

Digitalization: a threat and opportunity for energy companies

Whether attackers want money or seek to paralyze a rival nation, the energy sector makes an attractive target. Industry surveys show that the volume and sophistication of cyberattacks

Energy Internet: State of the Art and Challenges

The Energy Internet is expected to transform the landscape of electricity generation portfolio, distribution, and consumption through the integration of advanced sensing, communication, and

Cybersecurity in the Power Sector: 2025 Grid Defense Guide

Hackers from nation states to cybercriminals now target energy networks to disrupt operations. Utilities must safeguard everything from power plants and substations to smart meters

Cyber security and resilience guidelines for the smart energy ...

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

These energy businesses must navigate their way through increasingly changing and risky business environments, while continuing to provide and improve their services to end users. Challenges

Trustwave Risk Radar Report

ions for each attack stage. In this report, we delve into the unique cybersecurity challenges facing the energy and utilities sector, which is increasingly targeted due to its critical role in supporting national.

Cyber resilience – Power Systems in Transition – Analysis

The capacity to adapt to new technologies – as well as to new risks and threats – is key. Policy makers, regulators, system operators and industry across the electricity value chain all have important roles

Energy Sector Defense: Navigating Cybersecurity Challenges

As environmental agencies and utilities modernize their infrastructure and adopt digital technologies, they face heightened risks from cyber threats. This article explores the latest

Cybersecurity Issues and Challenges in Internet of Energy (IoE)

This Special Issue (SI) addresses the pressing need to develop scalable, adaptive, and innovative cybersecurity solutions for IoE. Given the critical role of energy systems in modern infrastructure,

CMU''s Electrotech Moneyball paper warns China-linked AI, grid ...

Researchers from Carnegie Mellon University warned that the rapid expansion of AI infrastructure, electrification, and grid modernization is creating long-term security and supply chain

The great energy pivot: US oil and Chinese solar are the winners in ...

The energy crisis means countries are scrambling to secure their energy supplies in the coming weeks and months, but many will be thinking decades ahead too.

Britain at risk of mobile signal rationing as energy costs soar

Industry executives are frustrated at Labour''s decision to exclude telecoms companies from a recent support package aimed at shielding businesses from soaring energy costs.

Big Tech''s data center boom poses new risk to US grid

The risk of power outages will only grow as new data centers come online, the NERC forecast in a December report. Nearly all of the United States

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Industry – Computerworld

Industry | News, analysis, features, how-tos, and videos

WACC by Industry (2025–2026): Practical Cost of Capital Benchmarks

Looking for a realistic WACC by industry to use as a starting point? This table provides industry-average WACC (cost of capital) benchmarks you can use to sanity-check your assumptions

Operational Risk, Safety, Sustainability Management

In a world of accelerating change, fragmented systems create blind spots. Sphera unifies risk, safety and sustainability into a single enterprise-wide view —

What is the Internet of Things (IoT)?

What is the IoT? The Internet of Things (IoT) refers to a network of physical devices, vehicles, appliances, and other physical objects that are embedded with sensors,

The Star

The Star brings you breaking news, developing stories, politics, entertainment, lifestyle, sports and much more from Kenya and around the world, throughout

Researches on Legal Risks of Data Use by Energy Internet Companies

The massive corporate data of Energy Internet companies is both an untapped “digital gold mine” and a legal risk that cannot be ignored if not handled carefully. The purpose of this research is to establish

Digitalization: a threat and opportunity for energy

Whether attackers want money or seek to paralyze a rival nation, the energy sector makes an attractive target. Industry surveys show that the volume

Energy Internet: State of the Art and Challenges

The Energy Internet is expected to transform the landscape of electricity generation portfolio, distribution, and consumption through the integration of advanced sensing, communication, and

Cybersecurity in the Power Sector: 2025 Grid Defense Guide

Hackers from nation states to cybercriminals now target energy networks to disrupt operations. Utilities must safeguard everything from power plants and substations to smart meters

Cyber security and resilience guidelines for the smart energy ...

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

These energy businesses must navigate their way through increasingly changing and risky business environments, while continuing to provide and improve their services to end users. Challenges

Trustwave Risk Radar Report

ions for each attack stage. In this report, we delve into the unique cybersecurity challenges facing the energy and utilities sector, which is increasingly targeted due to its critical role in supporting national.

Cyber resilience – Power Systems in Transition –

The capacity to adapt to new technologies – as well as to new risks and threats – is key. Policy makers, regulators, system operators and industry across the

Energy Sector Defense: Navigating Cybersecurity

As environmental agencies and utilities modernize their infrastructure and adopt digital technologies, they face heightened risks from cyber threats.

Cybersecurity Issues and Challenges in Internet of Energy (IoE)

This Special Issue (SI) addresses the pressing need to develop scalable, adaptive, and innovative cybersecurity solutions for IoE. Given the critical role of energy systems in modern infrastructure,

CMU''s Electrotech Moneyball paper warns China-linked AI, grid ...

Researchers from Carnegie Mellon University warned that the rapid expansion of AI infrastructure, electrification, and grid modernization is creating long-term security and supply chain

Researches on Legal Risks of Data Use by Energy Internet Companies

The massive corporate data of Energy Internet companies is both an untapped “digital gold mine” and a legal risk that cannot be ignored if not handled carefully. The purpose of this research is to establish

Digitalization: a threat and opportunity for energy

Whether attackers want money or seek to paralyze a rival nation, the energy sector makes an attractive target. Industry surveys show that the volume

Energy Internet: State of the Art and Challenges

The Energy Internet is expected to transform the landscape of electricity generation portfolio, distribution, and consumption through the integration of advanced sensing, communication, and

Cybersecurity in the Power Sector: 2025 Grid Defense Guide

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Hackers from nation states to cybercriminals now target energy networks to disrupt operations. Utilities must safeguard everything from power plants and substations to smart meters

Cyber security and resilience guidelines for the smart energy ...

These energy businesses must navigate their way through increasingly changing and risky business environments, while continuing to provide and improve their services to end users. Challenges

Trustwave Risk Radar Report

ions for each attack stage. In this report, we delve into the unique cybersecurity challenges facing the energy and utilities sector, which is increasingly targeted due to its critical role in supporting national.

Cyber resilience – Power Systems in Transition –

The capacity to adapt to new technologies – as well as to new risks and threats – is key. Policy makers, regulators, system operators and industry across the

Energy Sector Defense: Navigating Cybersecurity

As environmental agencies and utilities modernize their infrastructure and adopt digital technologies, they face heightened risks from cyber threats.

Cybersecurity Issues and Challenges in Internet of Energy (IoE)

This Special Issue (SI) addresses the pressing need to develop scalable, adaptive, and innovative cybersecurity solutions for IoE. Given the critical role of energy systems in modern infrastructure,

CMU''s Electrotech Moneyball paper warns China-linked AI, grid ...

Researchers from Carnegie Mellon University warned that the rapid expansion of AI infrastructure, electrification, and grid modernization is creating long-term security and supply chain

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Contact Us

Continue your research online:

Website: https://zithatech.co.za
Technical inquiry: https://zithatech.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved