

Article Overview

The energy sector is increasingly supported by internet and technology companies offering software, IoT, AI, and cloud-based solutions to optimize generation, distribution, and consumption.

Major Technology Companies

Several established tech companies provide digital solutions for energy and utilities:

- o Salesforce: Offers cloud-based CRM and management platforms for energy retail and utilities, helping companies like ENGIE reduce costs and manage energy transitions efficiently .
- o Oracle: Provides AI-driven solutions for utilities, enabling energy conservation, cost reduction, and operational efficiency, with reported savings of 37TWh and US\$3.6bn for clients since 2009 .
- o AMD: Supplies high-performance processors that improve energy efficiency in data centers, indirectly supporting energy optimization and sustainability goals .

IT Solutions Providers

IT service providers focus on modernizing legacy energy infrastructure and integrating advanced analytics:

- o DXC Technology: Offers platforms for asset management, demand forecasting, and trading operations optimization, integrating AI/ML for anomaly detection, emissions management, and energy consumption analysis .
- o Siemens: Combines equipment manufacturing with digital transformation programs, supporting renewable energy integration and smart grid development globally .

IoT and Smart Energy Companies

The Internet of Things (IoT) is transforming energy systems by enabling real-time monitoring, predictive maintenance, and remote operations:

- o IoT in energy is projected to grow from USD 32.3 billion in 2024 to USD 106.5 billion by 2035, driven by smart grid adoption, renewable integration, and efficiency requirements .
- o IoT devices optimize energy use, reduce downtime, and balance supply and demand, supporting intelligent and sustainable energy infrastructure .

Innovative Energy Software Startups

Startups are providing AI and SaaS solutions to manage renewable energy and distributed grids:

- o Kraken: AI software for virtual grids, managing load, forecasting, and field operations, used by utilities like EDF and E.ON .
- o BrightSource Energy: Develops AI-powered software (OASES) for renewable energy generation and storage, offering real-time monitoring, forecasting, and trading data .
- o Stem: Provides PowerTrack for energy storage and solar plant management, leveraging AI for demand forecasting and operational optimization across 200,000+ sites globally .
- o tem: Offers RED, an AI platform for direct renewable energy procurement, transforming electricity trading and pricing .

Digital Service Providers

Digital service providers help energy companies implement intelligent construction, AIoT, and BIM technologies:

- o Xinjongda Technology: Offers full lifecycle digital solutions for energy projects, including AIoT-enabled platforms for predictive maintenance and real-time monitoring .
- o Haolian Technology: Specializes in intelligent construction solutions integrating AIoT and BIM for energy infrastructure .

Summary

Internet and technology companies in the energy industry span large tech firms, IT service providers, IoT innovators, and specialized startups, all contributing to digital transformation, renewable integration, smart grid development, and operational efficiency. These companies enable energy providers to reduce costs, optimize performance, and meet sustainability goals while modernizing legacy infrastructure and leveraging AI, cloud, and IoT technologies.

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The Internet of Energy (IoE) is the upgrade and automation of electricity infrastructures, allowing energy producers to

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We analyzed 77 Internet of Energy startups impacting the industry. 2GG, Leap, Bandora Systems, Covert Science, and RESYNC

Which companies bundle Internet and energy plans in Australia? As of 2025, four key providers in Australia are making waves by

How much energy does the internet use, and - given recent technological advances - could it

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