



Future of Energy

Future of Energy & Technology

The global shift in energy generation, supply, and demand requires technological, economic, and social changes to create a sustainable and reliable energy system. This will involve leveraging new energy innovations, such as next-generation batteries and smart-powered cities to enhance energy production, consumption, and infrastructure. In turn, technology can help to reduce emissions, boost efficiency, and improve security, all while recalibrating the energy mix to include both fossil and alternative, low-carbon sources.

Resources



[Future of Energy Hub](#)



[Data Centers](#)

Paving the way through digital transformation

The technology sector is driving a major digital transformation to enhance efficiency, resilience, and sustainability in the energy sector. This shift is not only reducing the carbon footprint of the sector but also driving down operational costs and improving brand value.

At the same time, consumer, shareholder, and government stakeholders are driving global demand for more environmentally-responsible technology. Companies are adopting greener practices, energy-efficient devices, and lower-impact data services. The focus has shifted to sourcing sustainable energy for data centers and embracing circular economy models, with greater emphasis on recycling electronics, reducing e-waste, and reusing network infrastructure components.

Strategies in technology:

- Decarbonizing data centers and network infrastructure.
- Switching to renewable energy sources for operations.
- Digitalisation of global supply chains.
- Investment in green and energy-saving technologies.
- Sustainable financing and green tech investments.
- Enhancing energy efficiency across devices and networks.

Addressing risks and opportunities

Digital transformation in the energy sector is both actively shaping and influenced by regulatory shifts, consumer demands, and global commitments to achieve net-zero emissions. Risks include rising costs for regulatory compliance, supply chain disruptions, reputational damage, and pressure to adapt quickly to sustainable models. Navigating these challenges requires a strategic approach, leveraging innovation and cross-sector collaboration.

How we can help

- We help businesses horizon spot regulatory developments impacting investment strategies across digital transformation in the energy sector. We have the most comprehensive regulatory team of any global law firm, with leading lawyers from the relevant energy and enforcement international government agencies.
- We help recalibrate long and complex supply chains for more sustainable and efficient operations and optimise the potential of cross-sector digitalization with energy and technology. We work with the world's largest businesses on supply chain issues.
- When things go wrong, our market-leading tech disputes and regulatory lawyers defend your business and enforce its contractual and other rights.