



Future
of Energy

Hogan
Lovells

Future of Energy & Life Sciences and Healthcare

The global shift in energy generation, supply, and demand entails technological, economic, and social changes to create a sustainable and reliable energy system. This involves modifying energy production, consumption, and infrastructure to reduce emissions, enhance efficiency, and improve security, while recalibrating the energy mix to include both fossil and non-fossil fuels.

Resources

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Energy Hub



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Energy supply and security is vital for future health and powering the life sciences sector

The global energy transition is significantly transforming the life sciences and healthcare sector by driving environmental sustainability, operational efficiency, and innovation.

Healthcare facilities are reducing their carbon footprint and operational costs through renewable energy adoption and green building practices, while enhancing resilience and reliability.

Life sciences companies are increasingly focusing on sustainable research and development practices, including energy efficient lab equipment, implementing green chemistry and biotechnology processes in production stages.

Demand for sustainable methanol, a common active pharma ingredient (API), will continue to rise beyond available supply.

Transition strategies

- Renewable energy sources and carbon capture
- Transitioning through alternative raw materials
- Feedstock supply agreements
- Circular economy practices and advanced recycling capabilities
- Packaging redesign and higher recycled content
- Supply chain recalibration
- Compliance in external communication on sustainability activities

Navigating risks and opportunities

Opportunities include reducing costs and carbon footprints through renewable energy adoption and sustainable research practices, which can attract funding and enhance resilience. Upfront cost and specialised expertise remain a challenge. Navigating these risks involves strategic planning, investment in green technologies, and compliance with evolving regulations, ultimately leading to long-term sustainability, operational efficiency, and a lower carbon future.

How can we help?

- We help investors spot regulatory developments impacting investment strategies across the energy transition. **We have one of the most comprehensive regulatory team of any global law firm, with team members from DOE, EPA, FERC, DOI, and the DOJ.**
- We help businesses invest in sustainable chemical production facilities. **We've worked on some of the most recent green methanol facilities.**
- We can help you switch to renewable energy sources through green power purchase agreements (PPAs). **We've been at the forefront on negotiating PPAs across all major markets.**
- We can help you defend against greenwashing claims. **We are one of the few firms combining regulatory, investigations and litigation expertise and that has already worked on cross-border greenwashing investigations**