

The INFRASTRUCTORS

Delivering sustainable power
for a Growing World
the executive summary

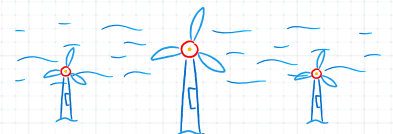
By 2050, demand for electricity could be **150% higher than it was in 2022**. But innovation needs to go beyond clean energy sources to confront the issues that make renewable energy difficult to implement.



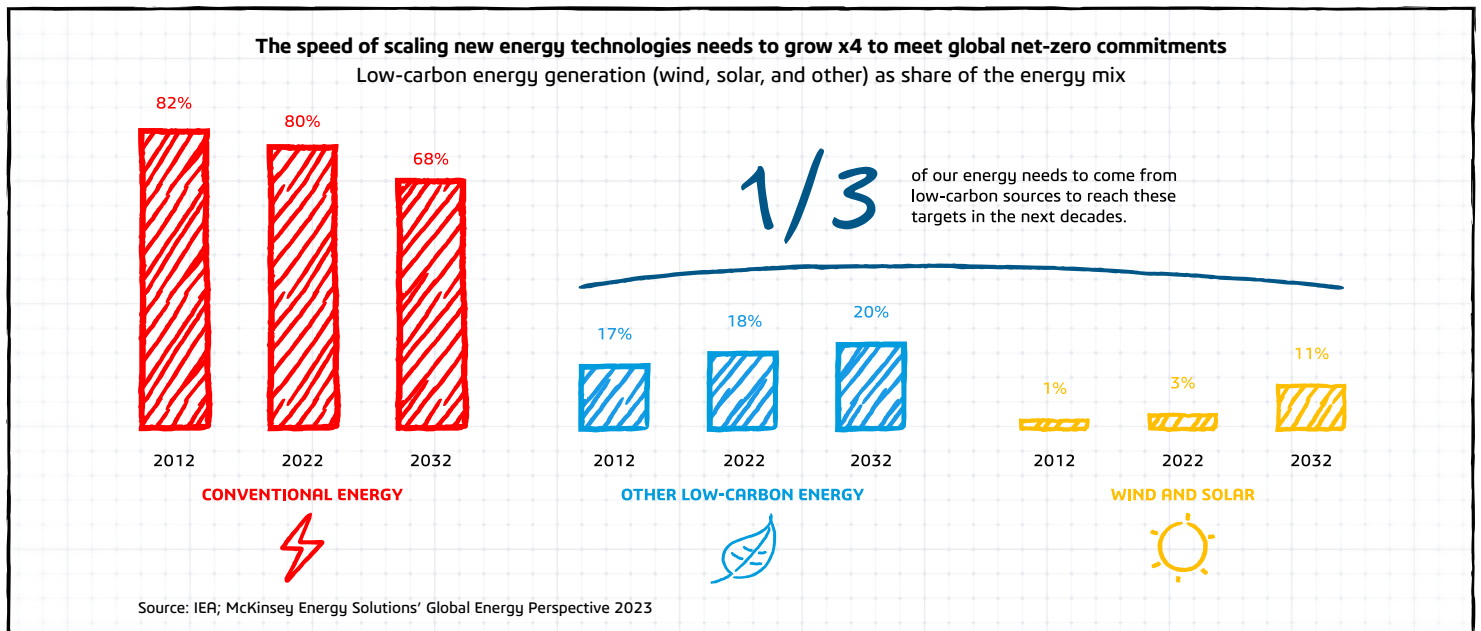
A full transition will entail the delivery of **new generating capacity, from renewable to nuclear**. A corresponding expansion of transmission, distribution, and storage infrastructure will also be needed to support the demands of these new power sources.



All these projects are costly and time-consuming to develop and deploy, which has historically deterred the necessary investment. However, **virtual twins provide a powerful way of de-risking** these pipelines.



By providing an end-to-end, multi-scalar view of assets in context, **virtual twins can also help with managing and maintaining a transformed energy ecosystem**, helping network operators support availability, reliability, and cost of energy.



Dassault Systèmes supports the next generation of sustainability innovators through sponsorships of student competitions like AAKRUTI Global 2024. These competitions provide a playground for students to develop and showcase sustainable technologies that will drive a greener energy future.



Want to find out more?

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