

Session Title: Policy innovation

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Abstract title: Net-zero by 2050: A roadmap for the global energy sector

A net-zero energy system requires a profound transformation in the way we produce and use energy that can only be achieved with a broad suite of technologies. Most of the global reductions in CO₂ emissions through 2030 can come from technologies available today. But in 2050, almost half the reductions come from technologies that are currently at the demonstration or prototype phase. Carbon capture, utilisation and storage (CCUS) will play an important role in addressing emissions from existing energy infrastructure; as a solution for sectors with hard-to-abate emissions; as a platform for low-carbon hydrogen production; and in removing carbon from the atmosphere.