

collaboration are needed to fully harness the potential of these technologies and overcome implementation barriers. The successful integration of generative AI, digital twins, AI, and data science can pave the way for a resilient, sustainable, and efficient energy future.[8][9]

References:

- [1] **Journal article:** Kwok, A.H., Doyle, E.E.H., Becker, J., Johnston, D., Paton, D.: What is 'social resilience'? Perspectives of disaster researchers, emergency management practitioners, and policymakers in New Zealand. *Int. J. Disaster Risk Reduct.* 2016, Vol.19, Page 197–211
- [2] **Journal article:** Thelen, A., Zhang, X., Fink, O., Lu, Y., Ghosh, S., Youn, B.D., Todd, M.D., Mahadevan, S., Hu, C., Hu, Z.: A comprehensive review of digital twin — part 1: modeling and twinning enabling technologies. *Struct. Multidiscip.* 2022 Vol-65, page-354
- [3] **Journal article:** Vinuesa, R., Azizpour, H., Leite, I., Balaam, M., Dignum, V., Domisch, S., Felländer, A., Langhans, S.D., Tegmark, M., Fuso Nerini, F.: The role of artificial intelligence in achieving the Sustainable Development Goals. *Nat. Commun.* 2020 Vol 11, page 233
- [4] **Conference:** Reddy Shabad, P.K., Alrashide, A., Mohammed, O.: Anomaly Detection in Smart Grids using Machine Learning. In: *IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society.* pp. 1–8(2021).
- [5] **Book Chapter:** Meske, C., Osmundsen, K., Junglas, I.: Designing and Implementing Digital Twins in the Energy Grid Sector. *MIS Q. Exec.* 20, 183–198 (2021).
- [6] **Conference:** International Energy Agency (IEA). (2021). *Global Energy Review 2021.* Retrieved from International conference, London 2021
- [7] **Website:** <https://www.iea.org/reports/global-energy-review-2021>.
- [8] **Website:** United Nations Development Programme (UNDP). (2021). *Sustainable Development Goals.*
- [9] **Website:** <https://www.undp.org/sustainable-development-goals>
- [10] **Website:** <https://www.eon.com/en/about-us/media/press-release/2022/e.on-sets-all-course-for-digitalization.html>