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The imperatives of climate and energy security – together with innovation in the nuclear sector – are leading an increasing number of governments and industrial end users to include nuclear energy in their plans to achieve net-zero greenhouse gas emissions targets.

In this context, this 5th edition of *The World Nuclear Supply Chain* provides a market-oriented view of the status, opportunities and challenges of the supply chain for nuclear power plants focusing on nuclear-grade structures, systems, components and services. The report covers the life-cycle of nuclear power plants through construction, operation and decommissioning. This includes new build of large gigawatt-scale and small modular reactors (SMRs) including advanced and microreactors, as well as reactor refurbishment to support long-term operation.

The report also advances recommendations on how to optimize the international supply chain to support resilience and efficiency.

*The World Nuclear Supply Chain* is prepared with the support of the Supply Chain and Long-term Operation Working Group of World Nuclear Association. The Association is the international organization that supports the global nuclear industry, its people, technologies and enterprises. It facilitates business-to-business interaction to advance good practice and represents the industry in the international forums that influence its regulatory and policy environment. Its mission is to promote a wider understanding of nuclear energy by producing authoritative information, developing common industry positions, and contributing to the energy debate.