

Titel des Themas

resources security

Schlagworte

global resources supply; critical material; energy crisis; circular economy; geopolitics;

Kurzfassung des Themas

Resource security relates to humankind's ability to guarantee the availability of natural resources for all people. Indeed, resource security has been, is, and will continue to be a super grand challenge for human society. Resource security has always been a constant topic whether it is the industrial revolution or the modern digital revolution. In the context of climate change and digital technology development, the demand for traditional resources and critical materials such as rare earth metals is also rising rapidly. On the other hand, the resource development concept has been reshaped by the efficient resource utilization of e-waste and organic waste. At the same time, resource security involves socioeconomic systems, geopolitical and trade conflicts, and other issues.

a) Inwiefern stellt das Thema eine globale Herausforderung von hoher aktueller und zukünftiger gesellschaftlicher Relevanz dar?

Undoubtedly, the issue of resource security represents a current and future global challenge of high social significance. Resource security is not only about the exploitation and development of traditional resources, but also about the reuse of waste resources (e.g., urban minerals), and it is closely linked to regional conflicts, such as the energy security issues resulting from the Russian-Ukrainian war. At the societal level, resource security is closely related to public behavior and regional development. No matter how advanced digital technology is, human welfare is always based on material resources.

b) Welches wissenschaftliche Erkenntnisinteresse wird aufgegriffen und ist anschlussfähig für exzellente, internationale Forschung?

Resource recycling technologies, low carbon extraction technologies, international supply chain collaboration, local interests nexus global politics

c) Inwieweit ist das Thema durch die Expertise der Berliner Wissenschaft und Gesellschaft inter- und transdisziplinär bearbeitbar und/oder lösbar?

By focusing on recycling technologies, life-cycle evaluation, international political studies, etc., and conducting interdisciplinary research, we may not be able to fully solve the problem, but we can at least touch on some of the core issues and develop preliminary solutions.

Welche weiteren, bislang noch nicht genannten, Argumente sprechen für Ihr Thema?

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