

The new ISO Standard for Ensuring Sustainability of Raw Materials



RESOURCE MANAGEMENT WEEK 2023

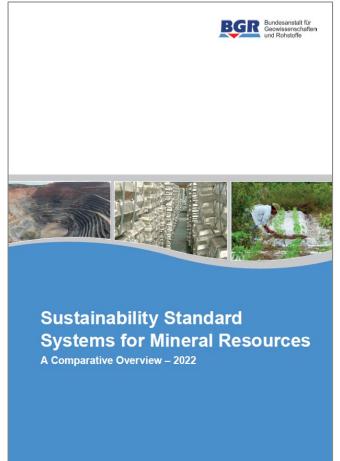
ASSURING SUSTAINABILITY IN RESOURCE

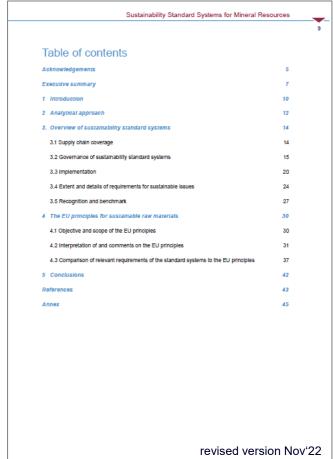


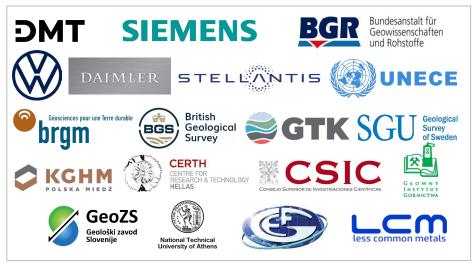
Benchmarking of Sustainability Standards against EU Principles for Sustainable Raw Materials

Implementation of the EU Critical Raw Materials Act











DMT-SIEMENS-BGR-UNECE Initiative

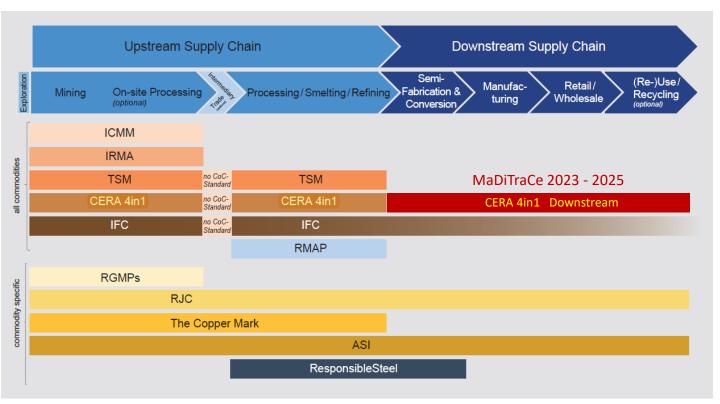
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RESULTS – Benchmarking of Sustainability Standards against EU Principles for Sustainable Raw Materials

Implementation of the EU Critical Raw Materials Act



- None of the existing standards covers the full supply chain for sustainable raw materials.
- 5 standards cover all commodities: ICMM (UK), IRMA (USA), TSM (Can), CERA 4in1 (Ger), and IFC (Intern. Finance Corp./World Bank).
- 3 standards cover full upstream supply chain: TSM (Can), CERA 4in1 (Ger) and IFC (Int. Finance Corp./World Bank).
- NEW ISO/PC Sustainable Raw Materials (submitted) will cover full supply chain.



SOURCE: BGR Report 2022, page 14

SUBMITTED - New ISO Standard for Sustainable Raw Materials

Implementation of the EU Critical Raw Materials Act



Scope

- Modular (to amend/update industry best practices and criteria).
- Cover the full supply chain of all raw materials (not mine closure/reclamation).
- Harmonize sustainability WG activities through liaisons (e.g. ISO/TC 298 and 333).
- Close gaps in existing standards vs. EU Principles for Sustainable Raw Materials, e.g. define industry best practice for Economic & Governance Principle circular economy, resource efficiency, waste recovery, energy transition and electrification.

Proposed Structure

- 1) List of compliancy frameworks / regulations (e.g. EU Critical Raw Materials Act).
- 2) List of primary and secondary raw material value chains addressed (non-agricultural raw materials).
- 3) List of accepted industry best practices related to accepted ESG criteria that are compliant with EU Principles for Sustainable Raw Materials (see BGR 2022 report), to be harmonized with global standard organizations.





SUBMITTED - New ISO Standard for Sustainable Raw Materials

Example: Standard Benchmarking against Category III Environmental Principles



CATEGORIES (example: III Environmental Principles, Environmental Management & Impact Mitigation)		PRINCIPLE NO (example: principle no 6)	ISSUE NO (example: issue a, out of issues a-d)	BENCHMARKED STANDARD * (to be selected by ISO committee)	TIC AUDIT CATALOGUE (independent 3 rd party auditor)
III ENVIRONMENTAL PRINCIPLES	Environmental Management and Impact Mitigation	6. Sustainable raw materials extraction and processing apply sound environmental management practices.	a. applying sound science- and knowledge-based environmental management of technical and economic feasibility, which is in alignment with the current legal framework in place and the European Green Deal. The main negative impacts of the operations on the environment (e.g. water, air, soil) as well as resulting damages will be adequately monitored, assessed and minimised.	Industry best practice 1	audit question 1 audit question 2
				Industry best practice 2	audit question 2
					audit question 4
				Industry best practice 3	audit question 5
					audit question 6
				XXX	XXX
				XXX	XXX

* "Criteria for certification schemes: Verification and monitoring of compliance is objective, and include sufficient requirements and procedures to ensure competence and independence of responsible verifiers" (EU Critical Raw Materials Act 2023).

Thank you!

Dr. Michael HaschkeDirector Innovation & EU Relations

UNECE

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