

September 2018

Subject: Program for Workshop on Fundamentals for anthropogenic resource assessment on national level, 18. September 2018, Vienna, Austria.

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1 Background

Global demand for materials drives discovery and recovery strategies in the mining and the waste management sectors. Investors, government regulators, industry stakeholders and policy makers depend on reliable information on the current and expected future availability of mineral resources from primary and secondary sources.

With respect to geogenic resources, discovery and recovery strategies define target materials and strive for developing recovery projects in public-private partnerships. In this context, resource assessments are used to estimate and communicate recoverable material quantities. These estimates are currently based on a combination of standardized procedures and evaluation criteria that consider primarily investor interests. Standardized resource classification terminology enables comparability, reliability and transparency of estimated quantities. However, the estimated quantities can be aggregated but do not represent the availability of all resources on regional or national level by any matter of means.

Resource classification evolved over time in response to the specific industry needs, and have led to the establishment of an overarching global standard – the United Nations Framework Classification for Resources (UNFC). At first, the UNFC addressed only mineral and energy resources from primary sources, but recent developments extended the scope to renewable energies and anthropogenic resources. This offers the opportunity to compare the availability of resources from primary and secondary sources based a common terminology. However, to get comparable and reliable results requires a mutual understanding and potential adoptions of resource assessments in the mining and waste management sectors.

2 Goal and scope

This workshop addresses these challenges and aims at providing a foundation for a mass-balance consistent resource classification. It goes beyond the individual project level and aims to elaborate the fundamentals for assessing the availability of resources in a system perspective on regional, national and global levels. We want to establish a common understanding on the objectives, benefits and challenges of using the UNFC, and aim at developing a generic

framework for anthropogenic resource assessments. In addition, we aim to give an outlook on the implementation and institutionalization of anthropogenic resource assessments on national level, which should also support the compilation of periodic updates on the availability of secondary raw materials.

3 Agenda

	Session / topic		Expected outcome	Presenter, Facilitator
		Registration		
		Welcome		
09:00	10'	Welcome and workshop overview Approval of the agenda		Ulrich
09:10	10'	Tour de table		Ulrich
		Session 1		
09:20	20'	Introducing the UNFC	Common understanding on the purpose of the UNFC it its guiding principles	Ulrich
09:40	30'	Questions & answers		Astrid
10:10	20'	<i>Break</i>		
		Session 2		
10:30	20'	Demonstrating the application of the UNFC with respect to copper in buildings (generic case study)	<ul style="list-style-type: none"> List of barriers and their overcoming Agreement on UNFC adoptions to classify anthropogenic resource on national level 	Ulrich
	20'	Introducing the MinFuture Project		Daniel
11:00	1h 10'	Discussing the following questions <ul style="list-style-type: none"> Is the current version (methodology and terminology) of the UNFC appropriate to classify anthropogenic resources on national level? If not, what are the barriers? How to overcome the barriers? 		Ulrich/Astrid
12:30	1h	<i>Lunch (served in the workshop room)</i>		
		Session 3		
13:30	20'	Proposing a generic framework for anthropogenic resource assessment	Agreement on a generic framework, definition on the individual steps	Ulrich & Andrea
13:50	1h 30'	Discussing the following questions <ul style="list-style-type: none"> Is there a need for generic framework for ARA? Is there a need for changing the proposed framework? What should be the outcome of the phases in the "value chain" and the "assessment"? How can the phases be defined/described? 		Ulrich
15:20	20'	<i>Break</i>		
		Session 4		
16:20	40'	Dissemination activity: <ul style="list-style-type: none"> Does the workshop has the potential for publishing the findings in a co-authored, peer-reviewed paper? If yes, which title and scope is appropriate? 	Agreement on the dissemination activities, the roles and time schedule	Astrid
17:00		<i>End</i>		

4 Supporting documents

Document	Download
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UNECE (2018). Draft Specification for the application of UNFC for Resources to Anthropogenic resources (ECE/ENERGY/GE.3/2018). United Nations Economic Commission for Europe (UNECE). Geneva.	https://www.unece.org/fileadmin/DAM/energy/se/pp/unfc_egrc/egrc9_apr2018/ece.energy.ge.3.2018.5_e.pdf
UNECE (2010). United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources 2009 (ECE/ENERGY/85). ECE Energy Series No. 39. United Nations Economic Commission for Europe (UNECE).	https://www.unece.org/fileadmin/DAM/energy/se/pdfs/UNFC/unfc2009/UNFC2009_ES39_e.pdf

5 Organizers

The workshop is co-organized by the pan-European expert network Mining the European Anthroposphere (www.minea-network.eu) and the European project on Global material flows and demand-supply forecasting for mineral strategies (www.minfuture.eu).