

Introduction to UNFC Anthropogenic Specifications and summary of the morning session

Ulrich Kral

Symposium on the
Availability of raw materials from secondary sources – a key aspect of circular economy
24. April 2018, Palais des Nations, Geneva

Sources of supply

Primary



Geosphere



Ocean

Secondary



Tailings



Built environment



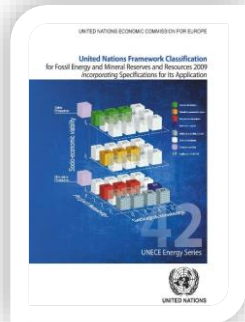
Landfills



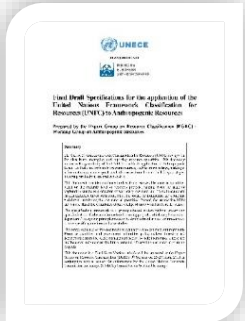
Consumer goods

How to assess the availability of material quantities for future raw material markets?

United Nations Framework Classification for Resources



Specifications for its Application to
to all energy and mineral resources



Specifications for its Application to
Anthropogenic Resources



Guidelines

Timeline for Specification development

2016-10	1 st WG Meeting in Budapest, Hungary
2017-04	EGRC tasked the WG to develop Specifications
2017-06	Public review phase
2017-11	Resolution Meeting in Tutzing, Germany
2017-12	TAG Review
2018-03	Submission to EGRC Bureau
2018-04	Draft Specifications with request for endorsement
	Approval by the UNECE Sustainable Energy Committee



Summary from the morning session

- Keynotes
- Anthropogenic Resource Classification
- Secondary raw materials challenges and case studies
- Tools and skills

Thank you for listening

Ulrich Kral

*Chair of EGRC Anthropogenic Resource Working Group
Chair of COST Action MINEA*

Technische Universität Wien
Research Center for Waste and Resource Management
Karlsplatz 13/226, A-1040 Vienna, Austria

ulrich.kral@tuwien.ac.at
iwr.tuwien.ac.at/en/
phone +43 1 58801 226 55

UNECE Expert Group on Resource Classification

<https://www.unece.org/energy/se/reserves.html>

COST Action MINEA

www.minea-network.eu

http://www.cost.eu/COST_Actions/ca/CA15115