Update on activities of Anthropogenic Resources Working Group

Soraya Heuss-Aßbicher
Ulrich Kral
Who we are
Anthropogenic Resource Working Group

Sigurd Heiberg
Soraya Heuss-Aßbichler
Julian Hilton
Zoltán Horváth
Ulrich Kral (Chair)
Joakim Krook
David Laner
Felix Müller
Sandra Müller
Mohamed Osmani
Mark Simoni
Julia Stegemann
Katalin Szabó
Patrick Wäger
Andrea Winterstetter
Dominik Wittmer
Application to all Sources of Material Supply

Scope of the report

Framework for anthropogenic resource assessment

Plastic residues
Biogenic waste
Glass residues
Paper residues
Residues from municipal solid waste incineration
Landfills
Residues from extractive industry
WEEE
Textiles
Wood residues
Scrap

Getting comparable, reliable and transparent estimates on the future recoverability of anthropogenic resources
Framework for Anthropogenic Resource Assessment

Anthropogenic Resource Assessment

- not standardized
- we are working on it

Goal and scope definition
Characterization
Evaluation
Classification

Interpretation

Tools for characterization and evaluation

Many approaches exist
Not standardized → Guidelines needed

Goal and scope definition
Characterization
Evaluation
Classification
Interpretation

Tool for classification – the UNFC

Adaption of the standardized approach used for primary raw materials:

Specifications to apply UNFC for Resources to Anthropogenic Resources

Past activities
Specifications

Specifications to apply UNFC for Resources to Anthropogenic Resources

- October 2016 – Start
- April 2018 - Approval by the UNECE Sustainable Energy Committee
- 27. September 2018 – Endorsement by the Committee on Sustainable Energy
Project proposal submitted

Developing Anthropogenic Resource Classification Skills for a Sustainable Circular Economy

(Directions4CE)

- Training PhD Students to become future evaluators/ competent persons for assessing the availability of anthropogenic resources
- Development of Guidelines
Past activities

Workshops


WG1  **Towards a knowledge base for material reserves and resources in buildings & infrastructures**, 29-30 Oct 2018, Odense.

WG1-4  **Knowledge base for material resources/reserves of construction and demolition waste, landfills and waste incineration residues**, 24-25 Jan 2019, Prague

WG1-4  **Knowledge base for anthropogenic resource and reserve estimates II**, 20 March 2019, Brussels.
Past activities
Dissemination

• Papers (with UNFC):
  
  

• Oral Presentations at Conferences
  
  • Resources Future Generations 2018, 16 Jun 2018, Vancouver
  • Recy & DepoTech 2018, 7 Nov 2018, Leoben.
  • MINEA MC Meeting, 26 Nov 2018, Budapest.
Knowledge base to facilitate anthropogenic resource assessment

- Framework for anthropogenic resource assessment
- Applying the framework: Current knowledge levels, gaps and needs
  - Buildings and infrastructure, Landfills, Mining waste, Solid waste incineration residues
- Critical review on existing case studies
Anthropogenic resource assessment for decision support: Opportunities and challenges

Ongoing activities

Report 2

Micro – and macro perspective

Recovery projects
- European context
- National context
- Individual business case

modified after Eddy Wille
Future activities

Workshops


Knowledge base for mining landfills, Sept 2019, tbd.

Knowledge base for mining residues from extractive industries, 3-4 Oct 2019, Léon.

Prospecting urban mines and evaluating material recoverability from buildings and infrastructure, 24-25 Oct, Copenhagen.


Latest info: www.minea-network.eu
Oral talks at

• EU Sustainable Energy Week 2019, 17 July 2019, Brussels.
• ISWA Conference 2019, 7 Oct 2019, Bilbao.

Paper: UNFC case study

• Mueller, Kral, Wäger. “Developing material recovery projects: Lessons learned from processing municipal solid waste incineration residues”

Diversifying Working Group Members

• Terms of Reference are available
Thank you

MINING the EUROPEAN ANTHROPOSHERE

Soraya Heuss-Assbichler

LMU München, Germany
heuss@lmu.de