RIS-RESTORE

RIS-RESTORE Evaluation of Red Mud Tailings in The ESEE Region: *Greek Workshop*

8th December 2021, *Online*

Workshop Announcement

We are pleased to welcome you to the Workshop in the framework the EIT RawMaterials Project RIS-RESTORE. Evaluation of Red Mud Tailings in the ESEE region, which will be held online in Dec 8th, 2021, co organized by the National Technical University of Athens and the Aluminium of Greece.

Red mud (BRM) is a solid caustic by-product/waste formed after the digestion of bauxite ore with sodium hydroxide in Bayer's process for the extraction of alumina. More than 85 M tonnes of red mud from past metallurgical activities have been landfilled in the countries of the Western Balkans, Slovenia, Croatia, Greece and Hungary. These tailings contain substantial quantities of heavy minerals containing REE, Sc, Y, Zr, Hf, and Ti.

RIS-RESTORE Project aims to determine the stocks of REE, Sc, Y, Zr, Hf, and Ti in red mud tailings in the ESEE region, which is expected to significantly strengthen Europe's independence from the import of raw materials by opening new European secondary mining regions containing critical and other valuable raw materials. Furthermore, RIS RESTORE aspires to develop a self-sustained network of stakeholders along Al value chain to increase the competitiveness of regional value chains, in reference to red mud tailings and the extraction of valuable raw materials in diversified targeted markets to environmentally orientated technologies and the construction sector, achieving increased competitiveness of the RIS region.

The project has implemented steps in the evaluation of the already existing Best Available Technology for gravitational and magnetic separation (which was originally developed for the extraction of heavy minerals out of different types of ores) and could be used for the extraction of heavy minerals from red mud. The activities cover a large area of RIS ESSE eligible countries (i.e. Slovenia, Hungary, Croatia, Bosnia and Herzegovina, Montenegro, FYR Macedonia, and Greece).

In this scope RIS RESTORE extends an invitation to the Al value chain stakeholders to attend an online workshop that focuses on the innovation in red mud valorization, bringing innovative solutions on the topic of secondary raw materials exploitation. Subjects such as the potential of Balkan countries, as well the current solutions in red mud valorization, and forthcoming innovative solutions, will be brought up aiming to transfer the project's knowledge and to deliver the good practices.

The Workshop will be held back-to-back with the 6th Greek Raw Materials Community Dialogue, that is also hosting the registrations for the Workshop.

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Workshop AGENDA

14:30 - 14.35 EET	Welcome – Opening of the RIS-RESTORE Greek Workshop	**Chrysa Panagiotopoulou**, Researcher, *NTUA*
14:35 -14.50 EET	RIS-RESTORE project - Evaluation of Red Mud Tailings in the ESEE region	**Mateja Košir,** Researcher, *Zavod za gradbeništvo Slovenije - ZAG*
14:50-15:05EET	Potential of Red Mud Valorization in Balkan Countries	**Stavroula Giannakopoulou**, Researcher, *NTUA*
15:05-15:20 EET	Bauxite Residue reuse through combined operations industrial pilot modules	**Panagiotis Davris,** Residue Valorization Engineer, *Aluminium of Greece - AOG*
15:20 -15:35 EET	From Waste to Innovation: Bosnian Red Mud	**Suzana Gotovac Atlagić,** Assistant Professor, *University of Banja Luka - UNIBL*
15:35 -15:50 EET	RIS Alice project - Al-rich industrial residues for mineral binders in ESEE region	**Sabina Dolenec,** Project Coordinator, *Slovenian National Building and Civil Engineering Institute*
15:50-16:30EET	Q and A - Virtual roundtable Discussion - Closure of the RIS-RESTORE Greek Workshop	

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