METGROW+ New Metallurgical System

METGROW+ project develops technologies for extracting valuable metals from metallurgical waste and low-grade ores, from which recovery is not yet economically viable.

The research involves the development and combination of pyro-, hydro-, solvo-, electro-, ionic- and biohydrometallurgical unit operations for pre-treatment, metal extraction and metal recovery, as well as final residue matrix valorisation.

The primary objective of METGROW+ is to create, demonstrate and validate an industrially viable, flexible New Metallurgical Systems Toolbox. The toolbox allows producing innovative, systems based, metallurgical solutions to recover metals and to valorise the residual matrix, while minimising energy consumption and the overall environmental footprint.

METGROW+ meeting, Chania, Crete, September 2016

Laterite ore pre-treatment

Laterite ore leaching

Metals recovery from diluted and concentrated solutions

Metallurgical system validation

Scientific knowledge

Legislation, economics, market knowledge

SET of optimised PROCESS UNITS

New metallurgical system-based industrial plants

Low-grade polymetalloc primary and secondary resources

Scientific community

Industrial sector

Public bodies and society

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