



EU policy on raw materials

17 November 2020

SUMEX virtual project launch

Daniel Cios

*GROW C2 – Energy Intensive Industries
and Raw Materials*

EU Green Deal

The European Green Deal
COM(2019) 640 final, 11 December 2019

“Access to resources is also a strategic security question for Europe’s ambition to deliver the Green Deal.

Ensuring the supply of sustainable raw materials, in particular of critical raw materials necessary for clean technologies, digital, space and defence applications, by diversifying supply from both primary and secondary sources, is therefore one of the pre-requisites to make this transition happen.”

EU Critical Raw Materials

Critical Raw Materials Resilience: Charting a Path towards greater Security and Sustainability, COM(2020) 474 final

CRM action plan

- 1 European Raw Materials Alliance
- 2 Develop sustainable financing criteria for mining
- 3 Research and innovation on waste processing, advanced materials and substitution
- 4 Map the potential supply of secondary CRM from EU stocks and wastes
- 5 Investment needs for mining projects that can be operational in 2025
- 6 Develop expertise and skills in mining
- 7 Deploy Earth observation programmes for exploration, operation and post-closure environmental management
- 8 Develop research and innovation projects on exploitation and processing of CRMs
- 9 Develop strategic international partnerships to secure CRMs supply
- 10 Promote responsible mining practices for CRMs

EU Critical Raw Materials

Critical Raw Materials Resilience: Charting a Path towards greater Security and Sustainability, COM(2020) 474 final

Final report: Study on the EU's list of critical raw materials

83 analysed materials

Industrial and construction minerals

Aggregates, Baryte, Bentonite, Borates, Diatomite, Feldspar, Fluorspar, Gypsum, Kaolin clay, Limestone, Magnesite, Natural graphite, Perlite, Phosphate rock, Phosphorus, Potash, Silica sand, Sulphur, Talc

Iron and ferro-alloy metals

Chromium, Cobalt, Manganese, Molybdenum, Nickel, Niobium, Tantalum, Titanium, Tungsten, Vanadium

Precious metals

Gold, Silver and Platinum Group Metals (Iridium, Palladium, Platinum, Rhodium, Ruthenium)

Rare earths

Cerium, Dysprosium, Erbium, Europium, Gadolinium, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Samarium, Terbium, Thulium, Ytterbium, Yttrium + Scandium

Other non-ferrous metals

Aluminium, Antimony, Arsenic, Beryllium, Bismuth, Cadmium, Copper, Gallium, Germanium, Gold, Hafnium, Indium, Lead, Lithium, Magnesium, Rhenium, Selenium, Silicon metal, Silver, Strontium, Tellurium, Tin, Zinc, Zirconium

Bio and other materials

Natural cork, Natural Rubber, Natural Teak wood, Sapele wood, Coking coal, Hydrogen and Helium

EU Critical Raw Materials list 2020

Antimony

Baryte

Beryllium

Bismuth

Borate

Cobalt

Coking Coal

Fluorspar

Gallium

Germanium

Hafnium

Heavy Rare Earths

Light Rare Earths

Indium

Magnesium

Natural Graphite

Natural Rubber

Niobium

Platinum Group Metals

Phosphate Rock

Phosphorus

Scandium

Silicon metal

Tantalum

Tungsten

Vanadium

Bauxite

Lithium

Titanium

Strontium

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Critical raw materials factsheets

Non-critical raw materials factsheets

Critical Raw Materials for Strategic Technologies and Sectors in the EU - A Foresight Study

Raw Materials in Horizon 2020 (2014-2020)

~ EUR 600 mln budget

Exploration	9 projects	EUR 55 mln
Extraction	15 projects	EUR 121 mln
Processing	19 projects	EUR 151 mln
Substitution	4 projects	EUR 19 mln
Reuse, recycling, recovery	6 projects	EUR 57 mln
Policy support	22 projects	EUR 43 mln

Sustainable management in
extractive industries
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https://cordis.europa.eu/programme/id/H2020_SC5-26-2020

Thank you