

THE BENEFITS OF COBALT

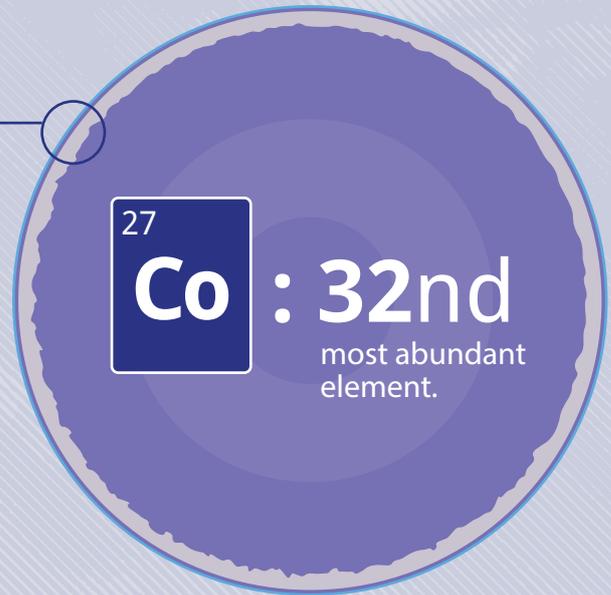
The Technology Enabling Metal

CRITICAL | STRATEGIC | ESSENTIAL

Cobalt is a natural component of the earth's crust and through natural environmental processes can be found in water, soil and air.



It is also widely regarded as a critical raw material fundamental to industry, essential for enabling technological development and key to a low carbon future due to its unique properties.



Innovation & Technology



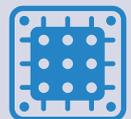
Artificial Intelligence
& Additive Manufacturing



Rechargeable
Batteries



Magnets &
Alloys



Digital
Processing

Cobalt is a critical raw material which has transformed the world by enabling technological progress: it is a key element in rechargeable batteries and integrated circuits used in portable devices and electric vehicles, key for the energy transition

Cobalt is an essential component in the strong permanent magnets used in wind turbines and the superalloys utilized in civil/defence aerospace & automotive applications, land-based power plants and the hard metal industry

Bioessentiality

Cobalt is essential for bacteria and plants, as well as for animals and humans in the form of vitamin B12, only present in animal based foods ...in the form of vitamin B12. This vitamin is only present in animal-derived foods



Healthcare

Cobalt's high level of bio-compatibility, strength and wear resistance, among other properties makes it a suitable material for use in the replacement of human joints such as hips and knees.



Sustainable Development

Reducing Greenhouse Gases



Cobalt in rechargeable batteries, catalysts and wind turbines plays a crucial role in reducing the levels of greenhouse gases, sulphur dioxide and nitrous oxide from fuel while contributing to the manufacturing of more eco-friendly products.

Electric Vehicles



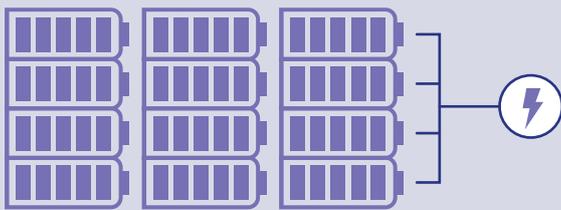
50% of current Cobalt production is intended for rechargeable batteries that have made it possible for industry to develop electric transport systems which contribute substantially to tackle emissions, climate change and global warming.

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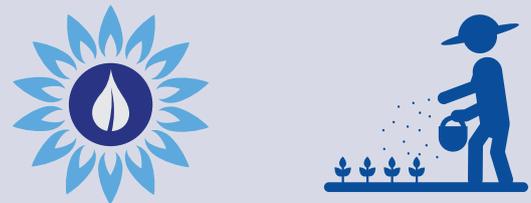
Providing a long life in service to products is a major contribution to sustainable development. Cobalt's oxidation resistant properties, hardness and wear resistance prolong the useful life of many applications.

Storage of Renewable Energy



Cobalt plays a crucial role in stationary rechargeable batteries used for storing renewable energy from wind and solar sources.

Biogas and Sustainable Agriculture



Cobalt is a bioessential element enabling the development of renewable biogas technology, a small amount of cobalt improves the production of biogas and the residue from biogas, digestate, is used in sustainable agriculture methods.

Want to know more? Get in touch.

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