

Cobalt: Overview of smelters and refiners in our current supply chains

List 1: *Countries of Origin of Cobalt*

Countries of Origin of Cobalt*
Democratic Republic of the Congo
Madagascar
New Caledonia
Papua New Guinea
Turkey

List 2: *Treatment Units and Locations*

Name of the Treatment Unit*	Location*
Ambatovy TU	Madagascar
Chemaf Etoile	Democratic Republic of the Congo
Chemaf Usoke	Democratic Republic of the Congo
Congo DongFang International Mining	Democratic Republic of the Congo
Golden African Resources SARL	Democratic Republic of the Congo
Mcc Ramu Nico Ltd.	Papua New Guinea
Meta Nikel Kobalt A.S.	Turkey
Norilsk Nickel	Russia
Vale Canada Ltd	Canada
Vale Mining	New Caledonia

List 3: Refiners and Locations

Name of the Refiner*	Location*
CNGR Advanced Material Co. Ltd.	China
Freeport Cobalt	Finland
Ganzhou Tengyuan Cobalt New Material Co., Ltd.	China
Guangdong Jiana Energy Technology Co.,Ltd.	China
Guangxi Yinyi Advanced Material Co., Ltd.	China
Guizhou Red Star Development Co., Ltd	China
Hunan Brunp Recycling Technology Co., Ltd.	China
JH Chemicals	South Korea
Jiangsu Jingfeng Battery Manufacturing Co., Ltd.	China
Ningbo Ronbay New Energy Technology Co., Ltd.	China
Smart Technology and Materials Co., Ltd.	South Korea
Sung Eel Hitech. Co., Ltd	South Korea
Tanaka Chemical Corporation	Japan
Umicore**	Belgium
Zhejiang Huayou Cobalt Co., Ltd.	China

*Supply chains are dynamic. This means that there may be changes in the supply chain that cannot be reflected in this listing in real time. We regularly update the list on the basis of the information available to us.

**Umicore refers to PwC's audit report "Validation of Umicore's Sustainable Procurement Framework for Cobalt". It does not mention the countries of origin of cobalt. PwC was granted full transparency.