

» Copper/Nickel smelter installations

Year	Installation	Type	Capacity
1987	Mount Isa Mines Limited Mount Isa, Australia	Demonstration Copper Smelter	120,000 t/y copper concentrate
1991	AGIP Australia Pty Ltd. Radio Hill, Australia	Copper/Nickel Smelter	60,000 t/y concentrate
1992	Freeport McMoRan Miami Arizona, USA	Copper Smelter	700,000 t/y copper concentrate
1992	Mount Isa Mines Limited Mount Isa, Australia	Copper Smelter	1,000,000 t/y copper concentrate
1996	Vedanta Tuticorin, India	Copper Smelter	500,000 t/y copper concentrate
1997	Umicore Precious Metals Hoboken, Belgium	Secondary Copper, Lead and Precious Metals Smelter	360,000 t/y feed
2002	Aurubis Lünen, Germany	Secondary Copper Smelter	150,000 t/y feed
2002	Yunnan Copper Kunming, China	Copper Smelter	800,000 t/y copper concentrate
2005	Vedanta Tuticorin, India	Copper Smelter	1,200,000 t/y copper concentrate
2006	Mopani Copper Mines Mufulira, Zambia	Copper Smelter	650,000 t/y copper concentrate
2007	Southern Copper Corporation Ilo, Peru	Copper Smelter	1,200,000 t/y copper concentrate
2009	Yunnan Copper Chuxiong, China	Copper Smelter	500,000 t/y copper concentrate
2009	Yunnan Copper Chambishi, Zambia	Copper Smelter	350,000 t/y copper concentrate
2011	Kazzinc JSC Ust-Kamenogorsk, Kazakhstan	Copper Smelter	290,000 t/y copper concentrate
2011	Yunnan Copper Liangshan, China	Copper Smelter	500,000 t/y copper concentrate
2015	Kansanshi Mining Solwezi, Zambia	Copper Smelter	1,200,000 t/y copper concentrate
2019	Kansanshi Mining Solwezi, Zambia	Copper Converter	175,000 t/y matte feed

» Lead smelter installations

Year	Owner	Type	Capacity
1983	Mount Isa Mines Limited Mount Isa, Australia	Demonstration Lead Smelter	5–10 t/hr concentrate
1985	Mount Isa Mines Limited Mount Isa, Australia	Demo Lead Slag Reduction and Dross Treatment	5 t/hr lead slag
1991	Mount Isa Mines Limited Mount Isa, Australia	Primary Lead Smelter	60,000 t/y lead metal
1991	Britannia Refined Metals Northfleet, UK	Secondary Lead Smelter	30,000 t/y lead metal
2000	Metal Reclamation Industries Pulau Indah, Malaysia	Secondary Lead Smelter	40,000 t/y lead metal
2005	Yunnan Metallurgical Group Qujing, China	Lead Smelter	160,000 t/y lead concentrate
2012	Kazzinc JSC Ust-Kamenogorsk, Kazakhstan	Lead Smelter	300,000 t/y lead concentrate
2013	Yunnan Metallurgical Group Huize, China	Lead Smelter	160,000 t/y lead concentrate

About Glencore Technology

Glencore Technology is a wholly owned subsidiary of Glencore, a diversified international mining company. The company's world-class operations use the latest technologies to create shareholder value.

Headquartered in Baar, Switzerland. Glencore's businesses maintain a meaningful position in major international commodity markets, focussing on copper, coking coal, thermal coal, nickel, alloys, alumina/aluminium, iron ore and zinc/lead. Glencore is a leading integrated producer of commodities with a well-balanced portfolio of diverse industrial assets.

In addition to these commodity markets, an integral part of the Glencore group of operations is their process technology capabilities.

Glencore has a long record of developing processing technologies for in-house use and for sale to external clients. The company develops and markets key strategic technologies, both as a means of maintaining technical leadership and as a technology marketing business. These technologies encompass a large part of the processing route and are developed, tested and marketed around the world by Glencore Technology.

Our technologies have a demonstrated track record with project success, low capital and operating costs and superior environmental performance.

Flowsheet improvements for the real world