

ISAKIDD TECHNOLOGY

Installations



Location	Year of Startup	Capacity kt/y '000
ELECTROWINNING- as at October, 2011		
BHAS Port Pirie, Australia	1985	5
Gibraltar Mines Ltd, McLeese Lake	1986	5
Mexicana De Cananea	1989/90/01	60
Birla Minerals, Mt Gordon, Australia (formerly Gunpowder)*	1990/98	45
Mount Isa Mines Limited, Australia*	1990	3.5
Compania Minera Disputa De Las Condes SA, El Soldada Chile	1992	6.5
Birla Minerals, Nifty Copper, Australia	1993/00	43
Straits Resources, Girilambone Copper, Australia (now Whim Creek)	1993	15
Escondida Coloso, Antofagasta, Chile *	1994	80
Compania Minera Quebrada Blanca SA, Iquique, Chile	1994	83
Minera Michilla SA, Chile	1994	27
Codelco Quebrada M, El Salvador, Chile	1994	26
Codelco Chuqui LGSO, Chiquicamata, Chile	1994	20
Compania Minera Cerro Colarado Ltd, Iquique, Chile	1994/98	120
Compania Minera Zaldivar, Antofagasta, Chile	1995	130
Mexicana de Cobre, La Caridad, Mexico	1995	22
Phelps Dodge, South Sider, Morenci, USA	1995/98	140
Mexicana de Cobre, Southern Peru Copper, Toquepala, Peru	1995/99	50
Empresa Minera de Mantos Blancos Mantoverde, Chile	1995	40
Empresa Minera de Mantos Santa Barbara, Chile	1995	40
Impala Platinum Limited, Springs, South Africa #	1996	10
Hellenic Copper Mines Ltd, Nicosia, Cyprus	1996	8
Great Australia Copper Mine, Cloncurry, Australia*	1996	6.5
Matrix Metals, Cloncurry, Australia	1996	5.5
Compania Minera Carmen de Andacollo, Chile	1996	20
Sociedad Contractual Minera El Abra, Chile	1996	225
Codelco Chuqui Ripios, Chuquicamata, Chile	1997	65
NICICO National Iranian Copper Industries Co, Sarchesmeh, Iran	1997	15
Ararco Inc., Silver Bell, USA	1997	16.5
Codelco Radomiro Tomic, Chile	1997	150
Myanmar Ivanhoe Copper Company, Yangon, Myanmar	1998	25
Compania Minera Disputada De Las Condes, Los Bronces, Chile	1998	7
Phelps Dodge, Central, Morenci, USA #	1998	140
Xstrata Copper Lomas Bayas, Chile	1998	60
Compania Minería Dona Ines de Collahuasi, Chile	1998	55
Minera Escondida Ltda., Chile	1998	137
Minera Maria Mariquita, Mexico	1998	18
Radomiro Tomic Expansion, Chile	1999	80
Equitorial Tonopah Inc., Tonopah, USA *	2000	25
Disputada Los Bronces, Chile	2000	18
BHP Tintaya, Peru	2000	25



Location	Year of Startup	Capacity kt/y '000
Inco Copper Cliff, Canada #	2000	20
Phelps Dodge, Stargo, Morenci, USA	2001	112
Minera El Tesoro, Sierra Gorda, Chile	2001	75
Norilisk Nickel, Severonickel, Monchegorsk, Russia	2001	15
Umicore, Hoboken, Belgium	2003	40
Korea Zinc, Onsan, Korea	2004	15
First Quantum, Kansanshi, Zambia	2005/06	90
Mantos De La Luna, Chile	2005	20
Escondida Sulphide Leach, Chile	2006	180
Frontera Copper, Piedras Verdes, Mexico	2006	32
Carlota Copper Company, Claypool, USA	NYC	26
Compania Minera Riochilex (BHP-Billiton), Spence, Chile	2006	200
Mopani Copper Mines, Nkana, Zambia #	2006	40
Lady Annie, CoppeCo, Australia	2007	19
Whim Creek, Straits Resources, Australia	2007	15
Codelco, Gaby, Chile	2007	150
Browns Oxides, Compass Resources NL	2007	10
Chelopech, Dundee Precious Metals, Bulgaria	NYC	20
Kinsevere, AMCK Mining Sarl, DRC	2011	60
Tenke Fungurume Mining Sarl, DRC	2009	115+60
Kamoto Copper (Katanga Mining), DRC	2009/10	70
Mutanda Mining Sarl, DRC	2010/11	60+40
African Project (TBA)	2012	100

SUMMARY:

64 Licensees, Installed Capacity 3,656,500 TPA

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Location	Year of Startup	Capacity kt/y '000
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Converted from starter sheet operation * Shutdown

ELECTRO-REFINING- as at October, 2011

Copper Refineries Ltd, Townsville, Australia #	1978/98	270
Copper Range Company, White Pine, USA	1982	70
Falconbridge Kidd Creek, Canada	1986	147
Olympic Dam Operations, Roxby Downs, Australia	1988/98	230
Montanwerke Brixlegg, Austria	1988	75
Norddeutsche Affinerie AG, Hamburg, Germany	1989/92	370
Phelps Dodge Miami, Claypool, USA * (formerly Cyprus Miami)	1994	190
Huttenwerke Kayser AG, Lunen, Germany #	1994	180
Kennecott Utah Copper, USA	1994	280
Atlantic Copper SA, Huelva, Spain #	1995	258
Boliden Mineral AB, Skelleftehamn, Sweden #	1995/00	240
Cumerio, Ole, Belgium (formerly UM)	1996	350
Sterlite Industries, Silvassa, India	1996/01	175
Grupo Mexico, La Caridad, Mexico	1997	300
LS-Nikko Refinery #2, South Korea	1997	160
PT Smelting Company, Gresik, Indonesia	1998/03	230
Hindalco Industries (Birla Copper), Dahej, India	1998/01/05	500
Noranda, CCR, Canada	1998	360
Port Kembla Copper, Port Kembla, Australia *#	2000	120
LS-Nikko Refinery #2 Expansion, South Korea	2001	60
Pan Pacific Copper, Hitachi, Japan	2002	180
Jiangxi Copper Company, Guixi, China	2003/07	200+200
Jhagadia Copper (SWIL), Bharuch, India	2004	50
Thai Copper Industries Public Co Ltd, Rayong, Thailand	2004	165
Codelco Chuquicamata Division, Chile	2004	870.5
Sterlite Industries, Tuticorin, India	2005/06	195
Sumitomo Toyo, Japan	2005	150
LS-Nikko Refinery #1, South Korea	2005	275
Pan Pacific Copper, Tomano, Japan	2006	150
Pan Pacific Copper, Saganoseki, Japan	2006	187
Jinlong Copper, China	2006	100
Pasar, Lide, Philippines	2007	215
Cumerio, Pirdop, Bulgaria	2009	180
Kazzinc, Ust Kamenogorsk, Kazakhstan	2011	80
Yunnan Copper Co., China	2010	180
Sterlite Industries, Tuticorin 4LPTA Project, India	NYC	400
Tongling Non Ferrous Stage One	NYC	200
Yunnan Tin Co., China	NYC	150

SUMMARY: 38 Licensees, Installed Capacity 8,692,500 TPA

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Location

Year
of Startup

Capacity kt/y
'000

Converted from starter sheet operation

* Shutdown

TOTAL NUMBER OF LICENCEES and INSTALLED COPPER CAPACITY

ELECTROWINNING: 64 Licensees, Installed Capacity 3,656,500 TPA

ELECTRO-REFINING: 38 Licensees, Installed Capacity 8,692,500 TPA

TOTAL: 102 Licensees, Installed Capacity 12,349,000TPA

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