

MALAYSIAN TIN BULLETIN

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FEBRUARY TIN MARKET REVIEW

Kuala Lumpur Tin Market (KLTM)

With the absence of refined tin metal being offered for sale, the KLTM continued to remain quiet with no trade being transacted during the month of February. The market, however, was closed on the 1st and 6th February in conjunction with the Federal Territory day and the Thaipusam holidays.

London Metal Exchange (LME)

Influenced largely by weak demand, tin trading on the LME during the month of February was mostly on a downward momentum, and conducted within a wide price range of almost US\$4,500 per tonne. Trading was much easier than that recorded during the January trading month, and again followed the same trading pattern as the other base metals traded on the Exchange.

Tin trading commenced the February month at US\$29,550 per tonne for cash tin and US\$29,625 per tonne for 3-month tin, both being their respective highest price level for the month. Thereafter, it softened to end the short first trading week lower.

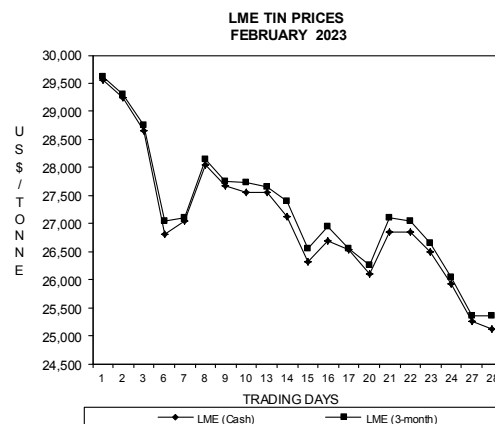
The decline continued at the opening of the second trading week. Backed by strong demand, the market rose for two consecutive days before easing towards end of the trading week. The strong demand came particularly from overseas interests resulting from the weakening U.S. dollar.

The tin price slid further towards middle of the third trading week. It inched-up the next day before retreating to end the trading week lower.

The market weakened at the start of the fourth trading week. It rebounded and stayed somewhat flat during mid-week as market sentiment remained largely uncertain, in-line with the flat momentum of other base metals traded on the Exchange. Thereafter, it fell further to end the trading week lower.

The short final trading week saw uncertain sentiment that resulted in the tin price staying somewhat flat after its opening decline to close the February trading month at US\$25,110 and US\$25,350 per tonne for cash and 3-month tin, both being their respective lowest price level for the month.

The average LME cash tin price recorded in February was US\$27,070 per tonne, whilst the average 3-month tin price was US\$27,218 per tonne.



NEWS HIGHLIGHTS

Optimism on MSC as Production and Tin Prices Rise

Malaysia Smelting Corp Bhd's (MSC) shares have had a strong start to the year on optimism that the company's earnings will improve in tandem with the increase in tin prices. While its share price had eased from the recent high closing price of RM2.27 to close at RM1.97 last Friday, the counter had registered a gain of about 29% year-to-date.

According to UOB Kay Hian Research (UOBKH), MSC's mining division would likely register stronger earnings in the upcoming results for the fourth quarter (4Q) of its financial year ending Dec 31, 2022 (FY22), supported by higher production and better tin prices.

"We are positive on the company's outlook as its earnings are expected to improve, driven by stronger tin prices and higher production output," it said. "MSC is well-positioned for meaningful growth in FY23, backed by improved production output and better margins from the full utilisation of its new eco-friendly plant," it added.

Tin prices have rebounded in the last three months to currently trade around US\$28,000 (RM121,245) per tonne, representing an increase of about 58% from its bottom last year.

The recovery in tin prices was attributable to the ongoing structural supply constraints, coupled with rising demand amid the gradual reopening of China, which consumes more than 50% of global tin, UOBKH observed.

Its correlation analysis showed that every US\$2,000 (RM8,660) per tonne increase in its tin price assumptions would boost MSC's earnings by about 10% a year, and vice versa. Meanwhile, UOBKH pointed out that MSC managed to increase its average daily mining output by close to 11 tonnes per day in 4Q22. Although daily output fell to 9.5 tonnes in the first half of FY22 due to Covid-19-related disruptions, a rebound was noted in the second half of FY22.

UOBKH expects MSC's daily production to increase to 12 tonnes in 2023 with the utilisation of new technology and exploration of new deposits. "With the new mining area from Asas Baiduri Sdn Bhd (ABSB) in Perak, MSC is expected to enhance its mining output to over 15 tonnes per day (thus boosting earnings by around 20%) in the next two to three years," it said.

(Source: *The Star*, 13 February 2023)

MSC Set on Improving Operational Efficiencies

Malaysia Smelting Corp Bhd (MSC) has stated that headwinds such as high interest rates, inflation and weaker developing economies have made it cautious about market conditions and the group will remain focused on improving operational efficiencies in its tin smelting and mining segments. On the positive side, tin prices have risen in early 2023 on China relaxing its zero-Covid policy. Its new Pulau Indah (PI) plant, which uses newer and more efficient technology, is on target to achieve higher capacity and full commission in the near future.

Add that with the planned closure of the old plant at Butterworth, Penang, MSC expects higher operational efficiency, lower operational and manpower costs, while improving its overall carbon footprint in the year ahead. In a filing with Bursa Malaysia, MSC noted its tin mining segment will continue to focus on improving and increasing daily mining output and overall mining productivity.

For the fourth quarter ended Dec 31, 2022 (4Q22), MSC posted a 60% year-on-year (y-o-y) drop in net profit to RM25.9mil or an earning per share (EPS) of 6.2 sen. A stronger performance from both its tin mining and smelting divisions enabled MSC to post a significant improvement in 4Q22 from the net loss of RM31.3mil it suffered in 3Q22.

The group's tin smelting division reported a net profit of RM19.2mil in 4Q22 (vs 3Q22's net loss of RM46mil) underpinned by increased refined tin sales from the processed tin intermediates and sales of by-products as the furnace at Pulau Indah resumed operations in October 2022, following the completion of rebricking exercise.

Its tin mining segment posted a net profit of RM9.1mil in 4Q22. MSC noted tin prices were volatile during the year, falling from its pandemic peak of US\$40,000 (RM176,068) per tonne in early 2022 to around US\$20,000 (RM88,034) per tonne towards the second half of the year. MSC expects its mining operations to see higher mining productivity in 2023 as it explores more efficient mining methodologies at the Rahman Hydraulic Tin (RHT) mine in Klian Intan.

For financial year 2022 (FY22), MSC's revenue increased by 39.7% y-o-y to RM1.5bil on higher average tin prices and comparatively higher sales of refined tin. Net profit for FY22, however, fell 17% y-o-y to RM98.4mil or an EPS of 23.4 sen.

Its tin smelting segment made a net loss of RM5.5mil in FY22 as compared to a net profit of RM12.1mil in FY21, mainly due to the longer-than-expected furnace outage at the Pulau Indah smelter in 3Q22 and on higher operating costs in relation to labour, energy, fuel, reductant and furnace re-bricking costs in FY22.

MSC's tin mining operations posted a net profit of RM95.1mil in FY22, as compared to RM109.4mil in FY21. Despite higher tin prices in 2022, earnings were impacted by a one-off legal case settlement of RM4.7mil and higher operating cost in FY22. MSC has proposed a first and final single-tier dividend of seven sen per share, translating to a dividend payout of 30% of FY22's net profit.

(Source: *The Star*, 18 February 2023)

NEWS ROUND-UP

Another Record Year of Tin Production at Alphamin

Alphamin Resources has reported another record year for tin production from its Bisie mine located in the Democratic Republic of the Congo (DRC). The mine's tin metal production reached 3,113 tonnes in the fourth quarter, bringing its annual production to 12,493 tonnes in 2022, which was 14 per cent higher than the previous record year total of 10,969 tonnes. The increases were driven by improvements in ore processed and tin grades, with underground mining performing particularly well.

Average tin grades of 3.82 per cent for the year were 7 per cent higher than 2021. It came from a highly mineralised area, not previously included in mineral resource or mine plan, that was successfully mined. However, because of the

structurally complex nature of the material, recoveries were negatively impacted. Between the second and third quarter, plant recoveries dropped 5 percentage points to 72 per cent, recovering slightly to 73 per cent in the final quarter. Overall, the 75 per cent average plant recovery was a slight improvement on the previous year.

The company is predicting a production of some 12,000 tonnes next year, similar to 2022 production. With the Mpama South project to come online in 2024 once commissioning of the mine is completed in the final quarter of this year, production is set to increase from then on. Once the latest lab assay results are finalized, an updated Mpama South Resource is expected imminently.

2022 Global Tin Production Maintained

Refined tin production in 2022 remained steady compared to the previous year. However, performance varied from company to company.

2022 Top 10 Refined Tin Producers

Refined Tin Production (Tonnes)

Order	Company	2021	2022	YOY Change %
1	Yunnan Tin (China)	82,000	77,100	-6.0%
2	Minsur* (Peru)	31,800	32,700	2.8%
3	Yunnan Chengfeng (China)	17,000	20,600	21.2%
4	PT Timah (Indonesia)	26,500	19,800	-25.3%
5	Malaysia Smelting Corp (Malaysia)	16,400	18,800	14.6%
6	Guangxi China Tin (China)	9,200	10,900	18.5%
7	Jiangxi New Nanshan (China)	11,600	10,800	-6.9%
8	EM Vinto (Bolivia)	12,100	10,300	-14.9%
9	Thaisarco (Thailand)	12,100	9,500	-21.5%
10	Aurubis Beerse (Belgium)	9,800	8,200	-16.3%

Data: Provisional data reported to ITA and rounded to the nearest 100t

* Includes production from Minsur's Brazilian subsidiary, Taboca

Yunnan Tin Company (YTC) of China maintained its position as the world's largest producer of refined tin, while other Chinese companies shuffled up the rankings. PT Timah's production fell significantly compared with 2021 following a turbulent year in Indonesia. Overall, global refined tin production is estimated to have reached 380,400 tonnes, an increase of 0.3 per cent on last year's total of 379,400 tonnes.

International Tin Association (ITA) surveys global tin smelters to compile the annual list of the world's largest producers. In 2022, these top 10 companies produced 56 per cent of the world's tin, down from 59 per cent in 2021. As stated earlier,

the part of the drop in the group's output can be attributed to the difficult year experienced by PT Timah. A significant decline in output from YTC also contributed to the drop.

Despite the challenges, Chinese smelters maintained overall production during 2022. Around 90 per cent of production was shuttered during the third quarter as smelters brought forward maintenance on falling prices and low demand. Meanwhile, a wide arbitrage boosted refined tin imports. Concentrate imports were also up, year-on-year. Producers in South America maintained production from a strong baseline in 2021. European secondary production dropped due to a challenging fourth quarter.

Oropesa's Resource Upgrade Invaluable for its DFS

Elementos has improved the geological confidence of its Oropesa's Tin Resource, thus increasing the potential for a larger Ore Reserve Estimate later in the year.

The company has continuously improved Oropesa's Mineral Resource over the years after releasing its Maiden Resource estimate in 2018. Notably, an updated Mineral Resource Estimate (MRE) released in 2021 significantly improved the Resource, both in total tonnages and in geological confidence. In 2022, the company also released an Optimisation Study, which with an increased Mineral Resource and tin price, a US\$30,000 per tonne pit shell was defined. The scale of expected mining operations also increased by two-thirds.

The study was subsequently followed up by a further infill drilling campaign aiming to upgrade the Inferred Resource within the pit shell.

Elementos has released a new Updated Mineral Resource Estimate after a successful in-fill drilling campaign. Despite only marginal increases of 0.6 per cent in total tin contained

in the Resource, most of the changes were from upgrading material in the Inferred and Indicated categories to Measured Resources. Tin contained in the Measured category increased by 50 per cent to over 9,000 tonnes, mainly due to 7,500 tonnes being upgraded from the Inferred Resource.

The company has now achieved its main aim to upgrade all the Inferred Resource within the US\$30,000 per tonne pit shell to Measured or Indicated. The company's spokesman said "This ... is material because only Measured and Indicated Resources can be used or assessed during the DFS process for conversion to JORC Ore Reserves."

The spokesman added that "This puts us in a privileged position at the back end of our DFS to support our goal of releasing a maiden JORC Ore Reserves Statement for the Oropesa Tin Project." Elementos hopes to release its Definitive Feasibility Study (DFS) in the second quarter of 2023.

(Source: International Tin Association Ltd. UK)

SPECIAL ARTICLE

Former Tin Dredge must be Preserved, says MB Inc CEO

The Tanjung Tualang Dredge No 5 (TT5), a former tin dredge harking back to the 1930s, is a heritage that needs to be looked after, but its maintenance is costly, says Mentri Besar Incorporated (MB Inc) chief executive officer Anuar Zainal Abidin. He said this was why it needed to work with a private company to develop the Ipoh Escape theme park in the area surrounding TT5 for its sustainability.

"The (Perak) state has mandated us to generate income to maintain the tin dredge, which is quite costly," he told reporters when met after the Meet the Consumer Day at the Indera Mulia Stadium here yesterday. "MB Inc is the land owner, generating funds through lease and profit sharing. Questions of liability or risk do not arise," he added.

It was reported that TAFI Industries Bhd had been awarded a RM11mil contract to build the theme park in Tanjung Tualang. TAFI's wholly owned subsidiary, TAFI Home & Office Sdn Bhd, was awarded the job by TT5 Theme Assets Sdn Bhd which will run for 18 months starting from Feb 15, 2023. The job scope includes constructing, testing and commissioning, as well as completing and handing over the theme park.

Anuar said Ipoh Escape, similar to the one in Penang, was only one of the attractions in the area surrounding TT5. "It aims to be the biggest obstacle course in South-East Asia. Our target market includes tourists from Thailand and Singapore," he said, adding that other attractions were a maze garden and petting zoo.

(Source: The Star, 17 February 2023)

KLTM & LME TIN PRICES

Period	KLTM				LME	
	Average Price * (US\$/Tonne)	Exchange Rates	Average Daily Turnover (Tonnes)	Total Turnover (Tonnes)	Cash (US\$/Tonne)	3-Month (US\$/Tonne)
2016	17,528		47	11,568	17,982	17,889
2017	20,029		37	8,890	20,098	19,994
2018	20,151		37	9,075	20,168	20,086
2019	19,168		26	6,445	18,671	18,610
2020	17,504		19	4,088	17,134	17,079
2021	26,589		16	1,955	32,584	31,105
2022	41,007		5	21	31,384	31,122
2020 Jan.	17,014		19	406	17,056	17,057
Feb.	16,536		18	354	16,457	16,456
Mar.	16,417		20	236	15,321	15,307
Apr.		C L O S E D			15,039	14,949
May	15,110		17	268	15,410	15,231
Jun.	16,605		18	374	16,806	16,627
Jul.	17,287		16	358	17,452	17,375
Aug.	17,515		18	343	17,672	17,649
Sep.	17,846		21	444	17,946	17,962
Oct.	18,026		18	383	18,154	18,152
Nov.	18,433		20	413	18,568	18,539
Dec.	19,693		23	509	19,727	19,643
2021 Jan.	22,085		17	314	21,955	21,596
Feb.	25,965		25	456	26,717	24,415
Mar.	26,162		21	494	27,396	25,079
Apr.	27,106		16	327	28,427	26,568
May	31,132		17	298	32,524	29,736
Jun.	31,857		12	61	32,678	30,829
Jul.		C L O S E D			34,183	33,010
Aug.		C L O S E D			35,205	34,352
Sep.		C L O S E D			35,048	34,109
Oct.		C L O S E D			37,962	36,567
Nov.		C L O S E D			39,333	38,042
Dec.	39,500		5	5	39,574	38,956
2022 Jan.	41,007		5	21	41,807	41,344
Feb.		NO TRANSACTION			44,118	43,820
Mar.		NO TRANSACTION			44,249	43,917
Apr.		NO TRANSACTION			43,122	42,644
May		NO TRANSACTION			35,945	35,617
Jun.		NO TRANSACTION			31,777	31,459
Jul.		NO TRANSACTION			25,173	24,816
Aug.		NO TRANSACTION			24,520	24,276
Sep.		NO TRANSACTION			21,258	21,150
Oct.		NO TRANSACTION			19,406	19,373
Nov.		NO TRANSACTION			21,136	21,004
Dec.		NO TRANSACTION			24,099	24,038
2023 Jan.		NO TRANSACTION			28,081	28,146
Feb.		NO TRANSACTION			27,070	27,218
2023 FEB 1		C L O S E D			29,550	29,625
2		NO TRANSACTION			29,250	29,300
3		NO TRANSACTION			28,650	28,750
6		C L O S E D			26,805	27,050
7		NO TRANSACTION			27,050	27,100
8		NO TRANSACTION			28,050	28,150
9		NO TRANSACTION			27,675	27,750
10		NO TRANSACTION			27,550	27,725
13		NO TRANSACTION			27,550	27,650
14		NO TRANSACTION			27,125	27,400
15		NO TRANSACTION			26,325	26,550
16		NO TRANSACTION			26,700	26,950
17		NO TRANSACTION			26,525	26,555
20		NO TRANSACTION			26,100	26,250
21		NO TRANSACTION			26,850	27,100
22		NO TRANSACTION			26,850	27,050
23		NO TRANSACTION			26,500	26,645
24		NO TRANSACTION			25,925	26,050
27		NO TRANSACTION			25,250	25,350
28		NO TRANSACTION			25,110	25,350

Sources : The Kuala Lumpur Tin Market
London Metal Exchange

Note : As from 1 February 2001, KLTM price is quoted in U.S. Dollar

* KLTM's monthly average price is arrived at on a weighted average against total tonnage basis.

WORLD REFINED TIN STOCKS (Tonnes)

Period	LME Stock	COUNTRY STOCKS							Total Country Stocks	Total Commercial Stocks	US Strategic Stockpile
		Germany	U.K	Indonesia*	Japan	Malaysia*	Brazil*	U.S.A			
2016	3,800	2,129	955	3,976	1,400	356	3,600	6,220	18,600	24,800	4,020
2017	2,235	2,130	955	3,870	1,360	600	3,600	6,730	19,245	26,395	4,020
2018	2,165	2,130	955	2,587	1,469	439	3,600	5,610	16,790	27,226	4,020
2019	7,130	2,130	955	8,600	1,806	400	3,600	5,920	23,217	35,678	4,020
2020	1,890	2,130	955	8,600	1,473	271	3,600	5,100	22,129	29,464	4,020
2021	2,045	2,130	955	8,600	1,545	377	3,600	4,530	21,737	25,142	4,020
2019											
Jan.	1,845	2,130	955	2,587	1,578	439	3,600	5,150	16,439	26,524	4,020
Feb.	1,325	2,130	955	2,587	1,578	439	3,600	5,150	16,552	26,111	4,020
Mar.	950	2,130	955	8,594	1,765	439	3,600	4,850	22,333	31,458	4,020
Apr.	890	2,130	955	8,594	1,834	439	3,600	5,580	23,132	31,451	4,020
May.	2,810	2,130	955	8,600	1,849	439	3,600	5,510	23,083	34,096	4,020
Jun.	6,045	2,130	955	8,600	2,520	209	3,600	5,510	23,524	37,961	4,020
Jul.	4,640	2,130	955	8,600	2,520	209	3,600	5,510	23,524	34,583	4,020
Aug.	6,830	2,130	955	8,600	2,445	209	3,600	5,510	23,449	35,355	4,020
Sep.	6,620	2,130	955	8,600	2,013	919	3,600	5,510	23,017	34,215	4,020
Oct.	6,020	2,130	955	8,600	2,100	400	3,600	5,510	23,104	33,684	4,020
Nov.	6,235	2,130	955	8,600	2,022	400	3,600	5,510	23,217	33,116	4,020
Dec.	7,130	2,130	955	8,600	1,806	400	3,600	5,920	23,217	35,678	4,020
2020											
Jan.	6,630	2,130	955	8,600	2,041	400	3,600	4,780	22,546	36,171	4,020
Feb.	7,440	2,130	955	8,600	1,966	400	3,600	4,780	22,431	36,261	4,020
Mar.	6,205	2,130	955	8,600	1,966	268	3,600	4,780	22,211	32,855	4,020
Apr.	5,375	2,130	955	8,600	1,761	268	3,600	4,780	22,094	31,171	4,020
May.	2,455	2,130	955	8,600	1,850	268	3,600	5,090	22,183	28,129	4,020
Jun.	4,230	2,130	955	8,600	1,697	268	3,600	5,080	22,330	29,666	4,020
Jul.	3,675	2,130	955	8,600	1,645	268	3,600	5,070	22,268	29,226	4,020
Aug.	5,040	2,130	955	8,600	1,520	268	3,600	5,080	22,143	30,811	4,020
Sep.	5,550	2,130	955	8,600	1,663	432	3,600	5,100	22,480	31,518	4,020
Oct.	4,533	2,130	955	8,600	1,621	432	3,600	5,060	22,398	31,119	4,020
Nov.	3,805	2,130	955	8,600	1,473	432	3,600	5,100	22,290	31,100	4,020
Dec.	1,890	2,130	955	8,600	1,473	271	3,600	5,100	22,129	29,464	4,020
2021											
Jan.	820	2,130	955	8,600	1,570	271	3,600	5,240	22,366	29,477	4,020
Feb.	1,745	2,130	955	8,600	1,578	271	3,600	5,910	23,044	33,151	4,020
Mar.	1,740	2,130	955	8,600	1,573	181	3,600	4,540	21,579	31,734	4,020
Apr.	1,245	2,130	955	8,600	1,573	181	3,600	4,550	21,589	30,572	4,020
May	755	2,130	955	8,600	1,573	181	3,600	4,550	21,589	28,232	4,020
Jun.	2,015	2,130	955	8,600	1,573	181	3,600	4,500	21,539	27,012	4,020
Jul.	2,290	2,130	955	8,600	1,573	181	3,600	4,460	21,499	26,954	4,020
Aug.	1,395	2,130	955	8,600	1,581	181	3,600	4,440	21,487	24,199	4,020
Sep.	1,235	2,130	955	8,600	1,518	265	3,600	4,440	21,508	24,344	4,020
Oct.	670	2,130	955	8,600	1,518	265	3,600	4,510	21,508	23,287	4,020
Nov.	1,285	2,130	955	8,600	1,548	265	3,600	4,530	21,508	24,894	4,020
Dec.	2,045	2,130	955	8,600	1,545	377	3,600	4,530	21,737	25,142	4,020
2022											
Jan.	2,390	2,130	955	8,600	1,545	181	3,600	5,040	22,051	27,505	4,020
Feb.	2,245	2,130	955	8,600	1,550	181	3,600	5,060	22,076	27,342	4,020
Mar.	2,000	2,130	955	8,600	1,535	181	3,600	4,940	21,941	26,552	4,020
Apr.	2,010	2,130	955	8,600	1,551	681	3,600	4,750	22,267	26,222	4,020
May	1,990	2,130	955	8,600	1,572	681	3,600	4,710	22,248	26,496	4,020
Jun.	2,765	2,130	955	8,600	1,616	681	3,600	4,770	22,352	28,868	4,020
Jul.	3,330	2,130	955	8,600	1,572	230	3,600	4,740	21,827	29,267	4,020
Aug.	4,065	2,130	955	8,600	1,572	230	3,600	4,700	21,787	28,578	4,020
Sep.	4,565	2,130	955	8,600	1,572	230	3,600	4,740	21,827	28,093	4,020
Oct.	4,255	2,130	955	8,600	1,572	230	3,600	4,770	21,857	28,643	4,020
Nov.	2,930	2,130	955	8,600	1,572	230	3,600	4,740	21,827	28,900	4,020
Dec.	2,880	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a

Source : World Bureau of Metal Statistics

* : at producer

n.y.a : not yet available

MALAYSIAN PRODUCTION BY MINING METHODS (In Tonnes)
NUMBER OF MINES IN OPERATIONS
EMPLOYMENT AT TIN MINES

YEAR	AGGREGATE			Dredging			Gravel Pump			Open Cast			Under Ground			Panning			Avg Rtmt / Min Pro Plnt		
	Prod.	Units*	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.
2016	4,158	14	1,406	-	-	-	-	-	-	3,388	14	1,130	-	-	-	293	-	-	442	18	276
2017	3,894	16	1,286	-	1	36	-	-	-	3,104	16	1,058	-	-	-	406	-	-	390	16	228
2018	3,868	12	1,295	-	-	-	-	-	-	3,184	12	1,075	-	-	-	424	-	-	260	11	220
2019	3,611	13	1,387	-	-	-	-	-	-	3,103	13	1,201	-	-	-	244	-	-	264	11	186
2020	2,963	14	1,534	-	-	-	-	-	-	2,780	10	1,348	-	-	-	125	-	-	58	11	186
2021	3,013	13	1,844	-	-	-	-	-	-	2,796	13	1,624	-	-	-	119	-	-	64	11	220
2019																					
Jan.	325	11	1,242	-	-	-	-	-	-	272.0	11	1,025	-	-	-	28.7	-	-	24.8	11	217
Feb.	278	12	1,262	-	-	-	-	-	-	243.3	12	1,070	-	-	-	22.1	-	-	12.5	11	192
Mar.	324	13	1,289	-	-	-	-	-	-	286.0	13	1,097	-	-	-	18.4	-	-	20.0	11	192
Apr.	301	13	1,290	-	-	-	-	-	-	250.1	13	1,098	-	-	-	16.1	-	-	34.6	11	192
May	282	12	1,283	-	-	-	-	-	-	240.2	12	1,091	-	-	-	22.2	-	-	19.4	11	192
Jun	213	12	1,254	-	-	-	-	-	-	181.9	12	1,067	-	-	-	15.3	-	-	15.7	11	187
July	263	12	1,282	-	-	-	-	-	-	227.1	12	1,095	-	-	-	15.9	-	-	20.4	11	187
Aug.	299	10	1,396	-	-	-	-	-	-	260.2	10	1,209	-	-	-	20.0	-	-	19.1	11	187
Sep.	320	10	1,281	-	-	-	-	-	-	280.6	10	1,094	-	-	-	20.5	-	-	19.4	11	187
Oct.	312	12	1,441	-	-	-	-	-	-	262.6	12	1,255	-	-	-	15.4	-	-	33.5	11	186
Nov.	323	12	1,391	-	-	-	-	-	-	276.4	12	1,205	-	-	-	18.1	-	-	28.1	11	186
Dec.	356	12	1,387	-	-	-	-	-	-	309.4	12	1,201	-	-	-	31.1	-	-	15.7	11	186
2020																					
Jan.	289	12	1,434	-	-	-	-	-	-	273.0	12	1,248	-	-	-	11.4	-	-	3.6	11	186
Feb.	266	12	1,387	-	-	-	-	-	-	234.0	12	1,201	-	-	-	20.1	-	-	11.4	12	186
Mar.	162	13	1,550	-	-	-	-	-	-	143.9	13	1,364	-	-	-	13.2	-	-	4.6	12	186
Apr.	36	13	1,410	-	-	-	-	-	-	34.2	13	1,224	-	-	-	1.8	-	-	-	12	186
May	252	13	1,401	-	-	-	-	-	-	233.4	13	1,215	-	-	-	15.5	-	-	3.2	11	186
Jun	278	12	1,391	-	-	-	-	-	-	261.4	12	1,205	-	-	-	12.0	-	-	4.4	11	186
July	272	12	1,411	-	-	-	-	-	-	258.4	12	1,225	-	-	-	9.0	-	-	4.2	11	186
Aug.	277	13	1,567	-	-	-	-	-	-	263.7	13	1,381	-	-	-	9.2	-	-	3.8	11	186
Sep.	292	14	1,572	-	-	-	-	-	-	274.5	14	1,386	-	-	-	11.7	-	-	5.8	11	186
Oct.	295	13	1,562	-	-	-	-	-	-	283.7	13	1,376	-	-	-	6.9	-	-	4.1	11	186
Nov.	272	14	1,573	-	-	-	-	-	-	257.1	14	1,387	-	-	-	6.0	-	-	8.4	11	186
Dec.	272	10	1,534	-	-	-	-	-	-	261.4	10	1,348	-	-	-	7.1	-	-	3.3	11	186
2021																					
Jan.	278	10	1,539	-	-	-	-	-	-	252.1	10	1,353	-	-	-	19.0	-	-	6.5	11	186
Feb.	257	11	1,541	-	-	-	-	-	-	238.9	11	1,355	-	-	-	12.5	-	-	5.5	11	186
Mar.	297	10	1,550	-	-	-	-	-	-	271.9	10	1,364	-	-	-	12.9	-	-	5.0	11	186
Apr.	294	11	1,551	-	-	-	-	-	-	277.7	11	1,365	-	-	-	11.0	-	-	5.5	11	186
May.	262	11	1,508	-	-	-	-	-	-	244.5	11	1,322	-	-	-	11.3	-	-	5.8	11	186
Jun.	44	10	1,450	-	-	-	-	-	-	40.1	10	1,264	-	-	-	0.0	-	-	4.2	11	186
Jul.	204	10	1,450	-	-	-	-	-	-	199.2	10	1,264	-	-	-	1.0	-	-	3.7	11	186
Aug.	233	9	1,547	-	-	-	-	-	-	218.1	9	1,361	-	-	-	11.4	-	-	3.7	11	186
Sep.	262	10	1,794	-	-	-	-	-	-	245.4	10	1,608	-	-	-	11.4	-	-	4.8	11	186
Oct.	301	12	1,358	-	-	-	-	-	-	276.2	12	1,138	-	-	-	11.0	-	-	4.7	11	220
Nov.	287	13	1,844	-	-	-	-	-	-	255.6	13	1,624	-	-	-	9.0	-	-	5.7	11	220
Dec.	295	13	1,844	-	-	-	-	-	-	276.2	13	1,624	-	-	-	8.1	-	-	9.4	11	220
2022**																					
Jan.	234	13	1,743	-	-	-	-	-	-	218.6	13	1,557	-	-	-	7.9	-	-	7.2	11	186
Feb.	252	12	1,736	-	-	-	-	-	-	234.2	12	1,550	-	-	-	6.5	-	-	10.9	11	186
Mar.	306	12	2,302	-	-	-	-	-	-	272.9	12	2,117	-	-	-	11.4	-	-	21.8	11	185
Apr.	273	12	1,834	-	-	-	-	-	-	251.0	12	1,649	-	-	-	12.1	-	-	10.4	10	185
May	276	15	1,849	-	-	-	-	-	-	262.5	15	1,658	-	-	-	12.0	-	-	1.4	10	191
Jun.	285	15	1,869	-	-	-	-	-	-	265.8	15	1,678	-	-	-	16.0	-	-	3.7	10	191
Jul.	303	19	1,877	-	-	-	-	-	-	283.5	19	1,689	-	-	-	12.3	-	-	7.5	10	188
Aug.	338	19	1,896	-	-	-	-	-	-	314.6	19	1,699	-	-	-	18.3	-	-	4.7	10	197
Sep.	325	16	1,940	-	-	-	-	-	-	304.6	16	1,744	-	-	-	16.5	-	-	4.1	10	196
Oct.	322	18	1,919	-	-	-	-	-	-	310.5	18	1,722	-	-	-	7.3	-	-	4.4	10	197
Nov.	271	17	1,929	-	-	-	-	-	-	258.1	17	1,732	-	-	-	10.0	-	-	2.6	10	197

Source : Department of Mineral and Geoscience Malaysia

** : Preliminary.

- : Nil

Note : * Aggregate number of mines does not include Retreatment units / Mineral Processing Plant

**MALAYSIAN REFINED TIN PRODUCTION
IMPORT OF TIN-IN-CONCENTRATES
AND EXPORT OF TIN METAL (In Tonnes)**

Period	Production of Tin-In-Concentrates	Imports of Tin-In-Concentrates	Refined Tin Production	Local Consumption	Exports of Tin Metal
2016	4,158	30,536	26,849	2,238	27,470
2017	3,894	29,866	27,211	2,707	27,147
2018	3,868	27,450	27,115	1,964	27,342
2019	3,611	25,644	24,387	1,441	24,418
2020	2,963	22,288	22,367	1,512	22,597
2021	3,013	322	16,634	1,156	16,441
2022*	n.y.a	18,043	19,442	1,152	19,299
2019					
Jan.	325	2,169	1,887	125	2,205
Feb.	278	1,700	1,912	99	1,694
Mar.	324	2,263	2,169	134	2,195
Apr.	301	2,090	2,145	125	2,097
May.	282	1,842	1,836	145	1,891
Jun.	213	2,393	1,536	129	1,630
Jul.	263	2,393	2,491	144	2,347
Aug.	299	2,381	2,476	122	2,257
Sep.	320	1,998	2,234	111	1,886
Oct.	312	2,506	1,478	111	1,790
Nov.	323	2,147	2,137	105	2,086
Dec.	356	1,762	2,086	91	2,340
2020					
Jan.	289	2,136	2,314	93	2,180
Feb.	266	1,449	1,880	119	2,226
Mar.	162	1,105	1,228	71	1,191
Apr.	36	1,198	1,110	75	933
May.	252	2,187	1,344	99	1,516
Jun.	278	1,927	1,926	190	1,644
Jul.	272	1,972	1,819	150	2,240
Aug.	277	2,785	2,672	151	2,290
Sep.	292	2,398	2,057	138	2,198
Oct.	295	1,565	2,078	146	2,126
Nov.	272	1,536	1,974	125	2,108
Dec	272	2,030	1,965	155	1,945
2021					
Jan.	278	28	1,639	145	1,770
Feb.	257	29	1,847	70	1,765
Mar.	297	46	2,041	113	1,982
Apr.	294	47	1,680	115	1,836
May.	262	26	1,861	91	1,638
Jun.	44	0	695	86	894
Jul.	204	21	973	84	507
Aug.	233	19	1,115	86	1,085
Sep.	262	59	1,221	85	1,599
Oct	301	16	1,349	98	1,165
Nov.	287	10	1,086	91	1,172
Dec	295	21	1,127	92	1,028
2022*					
Jan.	234	1,173	1,332	106	1,305
Feb.	252	1,162	1,160	108	1,017
Mar.	306	1,258	1,653	89	1,659
Apr.	273	1,511	1,417	117	1,431
May	276	1,660	1,143	82	1,333
Jun.	285	1,729	1,730	76	1,481
Jul.	303	1,475	1,886	100	1,494
Aug.	338	1,397	2,211	94	2,402
Sep.	325	1,313	1,592	83	1,948
Oct	322	1,842	1,692	82	1,431
Nov.	271	1,454	1,702	117	1,622
Dec.	n.y.a	2,069	1,924	98	2,176

Sources : Department of Statistics, Malaysia
Department of Mineral and Geoscience Malaysia
Malaysia Smelting Corporation Bhd.

* : Preliminary

n.y.a : Not yet available

MALAYSIA'S DOMESTIC TIN CONSUMPTION (In Tonnes)

PERIOD	TOTAL CONSUMPTION	SOLDER *	TINPLATE	PEWTER	OTHERS *
2016	2,238	1,314	750	86	88
2017	2,707	1,348	737	63	559
2018	1,964	1,019	759	39	147
2019	1,441	695	639	19	88
2020	1,512	738	626	8	140
2021	1,156	395	710	6	45
2022	1,152	400	639	9	104
2019					
Jan.	125	66	51	1	7
Feb.	99	60	35	0	4
Mar.	134	69	56	1	8
Apr.	125	51	64	2	8
May	145	70	62	1	12
Jun.	129	66	56	1	6
Jul.	144	91	47	3	3
Aug.	122	60	51	1	10
Sep.	111	41	60	3	7
Oct.	111	41	59	3	8
Nov.	105	45	52	1	7
Dec.	91	35	46	2	8
2020					
Jan.	93	40	48	0	5
Feb.	119	62	52	0	5
Mar.	71	22	45	0	4
Apr.	75	19	53	0	3
May	99	49	44	0	6
Jun.	190	74	67	3	46
Jul.	150	84	55	3	8
Aug.	151	49	65	0	37
Sep.	138	85	46	0	7
Oct.	146	77	59	0	10
Nov.	125	78	40	2	5
Dec.	155	99	52	0	4
2021					
Jan.	145	73	66	1	5
Feb.	70	30	37	0	3
Mar.	113	40	68	0	5
Apr.	115	39	68	1	7
May	91	40	46	0	5
Jun	86	29	50	0	7
Jul.	84	20	64	0	0
Aug.	86	25	57	0	4
Sep.	85	30	53	2	0
Oct.	98	29	69	0	0
Nov.	91	20	69	2	0
Dec.	92	20	63	0	9
2022					
Jan.	106	27	56	0	23
Feb.	108	35	69	1	3
Mar.	89	24	58	1	6
Apr.	117	39	67	1	10
May	82	24	54	0	4
Jun	76	20	50	0	6
Jul.	100	25	62	2	11
Aug.	94	30	54	0	10
Sep.	83	40	35	1	7
Oct.	82	30	41	1	10
Nov.	117	57	50	1	9
Dec.	98	49	43	1	5

Sources : Department of Mineral and Geoscience Malaysia
Malaysia Smelting Corporation Bhd
Perstima Bhd

* : The figures include high-grade tin (99.9% Sn) imported for consumption.
Note : Local consumption of tin metal refers to the use of tin in a particular application.
Sales to manufacturing industries have been used as proxy for consumption except in the case of manufacture of tinplate which are actual tin consumption data.

WORLD MINE PRODUCTION (In Tonnes)

	2016	2017	2018	2019	2020	2021	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
EUROPE																	
Portugal	48	56	60	108	108	108	9	9	9	9	9	9	9	9	9	9	9
Spain	7	23	32	147	74	49	2	2	2	2	2	2	10	10	10	10	10
Russia	1,140	702	1,200	2,264	2,538	2,920	244	250	182	237	237	238	200	200	200	200	200
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFRICA																	
Burundi	51	123	126	143	121	127	47	50	50	50	50	50	-	11	-	-	-
DR Congo	4,128	7,145	9,000	6,250	13,508	15,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,047	1,000	1,000
Egypt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Namibia	-	-	-	9	242	499	45	53	50	50	52	50	50	50	50	50	49
Nigeria	3,827	5,964	8,784	7,020	5,848	6,900	500	500	500	500	500	500	1,200	1,200	518	500	500
Rwanda	2,621	3,508	2,400	2,223	1,692	2,122	150	150	150	150	150	150	200	200	200	200	200
South Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zimbabwe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanzania	104	68	6	18	1,600	1,200	100	100	100	100	100	100	100	100	100	100	100
Uganda	-	66	53	50	-	-	-	-	-	-	-	-	-	-	-	-	-
ASIA																	
China	153,100	163,000	157,500	142,900	161,300	152,200	10,500	10,500	10,500	11,000	13,800	6,600	7,000	7,000	6,200	13,700	9,200
Indonesia	60,000	60,000	84,000	86,400	65,400	60,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Kazakhstan	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laos	1,308	779	566	1,156	1,237	1,415	249	157	200	337	54	50	117	312	195	200	200
Malaysia	4,123	3,967	3,999	4,080	3,183	3,180	265	265	265	265	265	265	265	265	265	265	265
Mongolia	36	50	60	110	120	120	10	10	10	10	10	10	10	10	10	10	10
Myanmar	47,435	58,883	45,900	33,750	29,100	29,544	1,800	1,800	4,300	1,900	800	800	3,500	3,500	2,600	2,500	2,000
Thailand	124	705	720	720	720	720	60	60	60	60	60	60	60	60	60	60	60
Vietnam	5,520	4,560	4,560	5,520	5,420	5,400	450	450	450	450	450	450	450	450	450	450	450
AMERICA																	
Bolivia	17,614	17,973	17,259	17,194	14,710	19,462	1,700	1,700	1,700	1,500	1,500	1,500	1,500	1,500	1,400	1,400	1,400
Brazil	25,500	18,000	18,000	18,000	15,000	17,168	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Peru	18,789	17,790	18,601	19,683	20,647	26,995	2,410	2,043	2,366	2,373	2,406	2,287	2,675	1,920	2,263	2,454	2,368
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCEANIA																	
Australia	6,635	7,217	6,871	7,738	7,836	8,691	600	600	600	900	900	900	800	800	750	750	750
WORLD TOTAL	351,948	370,299	379,482	355,116	320,452	353,820	26,942	26,699	29,494	27,893	29,345	22,021	24,197	22,705	22,827	30,358	25,271

Source : World Bureau of Metal Statistics

- : Nil

WORLD REFINED TIN CONSUMPTION (In Tonnes)

	2016	2017	2018	2019	2020	2021	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
EUROPE																	
Austria	3,323	4,148	3,983	3,082	2,960	4,057	250	200	204	200	328	300	227	250	435	450	300
Belgium	2,400	697	720	720	720	720	60	60	60	60	60	60	60	60	60	60	60
Bulgaria	101	1	117	210	240	303	20	20	20	20	20	20	20	20	20	20	20
Czech Republic	515	532	603	605	335	439	36	22	24	29	24	20	12	44	12	15	18
Denmark	3	17	7	1	10	17	1	1	1	1	1	1	1	1	1	1	1
Finland	86	51	77	94	72	95	3	10	18	0	1	1	4	5	2	5	10
France	4,736	5,456	6,080	5,020	4,982	3,643	242	280	351	471	284	386	246	386	361	382	219
Germany	18,242	20,284	20,236	18,441	14,898	16,052	1,000	1,252	1,410	1,561	1,365	1,685	1,163	1,593	1,515	1,434	1,024
Greece	632	600	646	634	637	646	50	60	50	50	50	51	53	52	60	60	50
Hungary	145	1,177	2,050	2,036	1,714	1,706	100	100	130	130	122	100	152	150	150	150	100
Ireland	4	0	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0
Italy	3,495	3,974	4,678	4,324	3,402	4,153	300	300	522	500	479	500	456	450	742	750	750
Netherlands	6,000	6,000	6,000	6,000	5,400	5,400	450	450	450	450	450	450	450	450	450	450	450
Norway	0	1	1	1	10	0	0	0	0	0	0	0	0	0	0	0	0
Poland	3,669	3,537	3,723	3,335	1,580	1,012	125	50	30	30	103	32	100	100	196	200	130
Portugal	554	856	891	831	463	476	60	90	10	10	197	58	141	104	110	110	110
Romania	336	516	866	551	442	554	25	20	50	50	64	60	23	25	20	20	10
Russia	995	1,339	495	1,914	1,443	2,015	99	175	175	175	180	180	180	180	170	170	170
Slovakia	465	645	767	593	614	669	40	27	68	47	70	46	72	69	47	50	75
Spain	1,495	1,605	1,652	1,563	1,898	1,715	160	100	200	200	148	150	128	150	80	80	200
Sweden	6,492	5,457	6,020	5,835	5,343	6,105	600	530	549	550	517	541	500	500	296	300	700
Switzerland	47	69	45	60	44	46	1	10	10	10	13	10	1	5	10	10	5
United Kingdom	979	936	961	262	102	80	2	14	12	4	10	12	5	4	10	3	2
Yugoslavia	1,080	1,080	1,080	1,080	240	960	80	80	80	80	80	80	80	80	80	80	80
Other Europe	720	720	720	720	530	480	40	0	40	40	40	40	40	40	40	40	40
AFRICA																	
Egypt	107	119	225	174	139	181	20	15	15	15	10	10	5	5	10	10	10
Morocco	21	15	22	20	22	27	3	0	2	5	6	4	0	0	0	0	0
Nigeria	300	623	1,436	1,322	240	240	20	20	20	20	20	20	20	20	20	20	20
South Africa	1,047	957	633	604	326	340	59	24	36	44	34	35	35	30	49	50	50
Other Africa	720	720	720	720	530	480	40	0	40	40	40	40	40	40	10	40	40
ASIA																	
China	191,415	183,391	174,183	177,891	216,152	191,061	13,800	13,487	16,747	18,109	20,865	10,670	5,284	15,088	17,620	18,719	18,657
Hong Kong	1,800	1,800	3,300	3,600	480	1,359	130	130	130	130	130	130	130	130	130	130	130
India	9,088	9,861	11,365	10,615	9,734	10,566	912	900	910	900	694	934	1,812	1,211	1,423	1,400	1,000
Indonesia	1,200	1,200	1,200	1,200	1,200	1,200	100	100	100	100	100	100	100	100	100	100	100
Iran	987	1,058	1,573	2,221	2,261	1,600	100	100	100	100	100	100	100	100	83	174	102
Japan	26,113	29,111	28,084	24,905	20,198	28,383	1,923	2,233	2,130	1,794	1,893	2,038	2,146	2,172	2,048	1,851	2,162
Kazakhstan	490	431	405	350	287	0	5	50	50	0	0	45	20	130	50	1	0
Malaysia	1,560	1,560	1,560	1,560	1,560	1,560	130	130	130	130	130	130	130	130	130	130	130
Pakistan	279	300	489	311	194	322	16	16	15	0	30	30	48	50	23	22	20
Philippines	506	220	307	1,385	776	1,045	75	24	16	97	109	29	86	61	40	40	111
Singapore	1,960	1,920	1,920	1,920	1,720	1,920	160	160	160	160	160	160	160	160	160	160	160
South Korea	14,199	13,112	13,927	11,957	13,405	14,457	1,135	858	1,229	1,274	1,220	928	1,162	1,214	1,343	872	1,040
Syria	120	120	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Taiwan	4,140	4,494	4,576	4,569	10,096	8,772	580	742	861	900	726	640	925	767	674	700	750
Thailand	3,131	4,259	3,000	3,000	3,000	3,000	250	250	250	250	250	250	250	250	250	250	250
Turkey	2,416	3,110	3,215	3,202	3,746	4,158	350	522	576	529	272	311	205	495	333	461	420
United Arab Emirates	4,800	4,800	3,600	3,600	2,160	2,160	180	180	180	180	180	180	180	180	180	180	180
Vietnam	6,000	6,000	4,200	3,600	4,639	4,622	380	380	380	380	380	380	380	380	380	380	380
Other Asia	2,160	2,160	2,160	2,160	1,690	1,560	130	0	130	130	130	130	130	130	130	130	130
AMERICA																	
Argentina	878	596	674	420	1,108	799	40	35	26	39	43	40	4	14	55	34	53
Bolivia	480	480	480	480	480	480	40	40	40	40	40	40	40	40	40	40	40
Brazil	17,258	10,009	9,357	9,398	3,333	2,466	40	85	84	100	100	100	100	100	100	100	100
Canada	2,887	2,562	2,489	2,387	1,871	3,264	148	493	351	350	350	350	68	72	202	54	94
Chile	111	82	95	111	133	130	16	5	5	7	10	11	5	17	5	10	38
Colombia	300	280	271	248	237	207	33	10	4	5	12	12	25	20	8	10	10
Mexico	4,160	4,197	4,906	4,779	4,406	4,661	400	400	454	450	242	250	267	300	160	150	300
Peru	216	216	216	216	198	216	18	18	18	18	18	18	18	18	18	18	18
U.S.A.	29,455	31,476	34,664	31,057	29,191	34,559	4,736	2,297	2,773	1,812	2,701	1,602	2,466	1,787	1,646	2,949	1,843
Venezuela	59	19	16	12	10	12	1	1	1	1	1	1	1	1	1	1	1
Other America	420	420	420	420	275	240	20	0	20	20	20	20	20	20	20	20	20
OCEANIA																	
Australia	215	259	284	375	255	317	0	20	49	54	9	56	18	47	27	21	21
New Zealand	7	49	46	41	30	65	0	5	0	12	0	9	11	0	7	5	5
WORLD TOTAL	387,563	381,702	378,582	368,742	384,161	377,773	29,735	27,582	32,497	32,884	35,657	24,601	20,515	30,007	32,383	34,082	32,909

Source : World Bureau of Metal Statistics