



South American Tin Supply Juan Luis Kruger, CEO Minsur

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South American Production Overview

New Production

Minsur's Operations



Tin World Occurrences



- Modified from Sainsbury, 1969; and Taylor, 1979



Tin in South America: Mine Production

- South America, major tin mine producer
 - 2014 Tin mine production: ~56,000 MT
 - ~18% of global tin mine production
 - Peru (San Rafael Mine) contributed with 42% of South America's tin production
 - Bolivia contributed with 36% (~ 19,900 MT)
 - Brazil contributed with 23% (12,500 MT)



Data: Company reports, ministry of mines & metallurgy, SNIEE





Tin in South America: Refined Tin Production

- South America's 2014 refined tin production: ~47,000 MT
 - ~14% of global refined tin supply
 - Peru (Pisco S&R) produced 50% of South America's refined tin production

| Leading South American producers | | | | | | |
|----------------------------------|---------------|--------|--------|--------|--------|---------|
| Refined tin production, tonnes | | | | | | |
| Company | Country | 2011 | 2012 | 2013 | 2014 | %change |
| Taboca | Brazil | 1,253 | 3,026 | 4,212 | 5,010 | 18.9% |
| White Solder | Brazil | 2,222 | 2,341 | 2,211 | 2,392 | 8.2% |
| EM Vinto | Bolivia | 10,960 | 11,241 | 11,253 | 11,734 | 4.3% |
| OMSA | Bolivia | 3,335 | 3,276 | 3,672 | 3,769 | 2.6% |
| Minsur | Peru | 30,162 | 24,822 | 24,132 | 24,223 | 0.4% |
| Coopermetal | Brazil | 1,660 | 1,125 | 1,172 | 1,074 | -8.4% |
| Total | South America | 49,592 | 45,830 | 46,652 | 48,202 | 4.3% |

Data: Company reports, Bolivia Ministry of Mines & Metallurgy, SNIEE



Data: Company reports, Bolivia Ministry of Mines & Metallurgy, SNIEE



Brazil contributed with 18%

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Investments in Tin in South America

| Project | Owner | Location | Ore '000 Mt | Ore Grade | Contained Sn MT | Project Stage | Expected date | Life of Mine |
|--------------------------|--|----------|--|--------------------|---------------------|-------------------------|------------------|-----------------|
| San Rafael Tailings | Minsur | Peru | 7,620 | 1.05% Sn | 80,260 | PFS | 2S 2016 | 8 years |
| Azul Tin Project | Avenue Resources Ltd ¹ | Brazil | 3,000 – 5,000 | 0.8% - 1.2% | 24,000 – 26,000 | Exploration | na | na |
| Sao Lourenco | Avenue Resources Ltd ² | Brazil | Exploration phase | | | | | |
| Arara Project | CMR Ltd. | Brazil | 450,000 – 720,00 | 0.167% - 0.383% | 75,000 – 276,000 | Exploration | na | na |
| El Kenko (tailings) | South Amercian Tin Ltd (SAT) ³ | Bolivia | 9,200 | 0.40% Sn | 36,800 | Exploration/ Studies | na | 4 years |
| Catavi (tailings) | SAT ³ | Bolivia | 17,000 | 0.35% Sn | 59,500 | Exploration/ Studies | na | 4 years |
| Sink&Float (tailings) | SAT ³ | Bolivia | 25,000 | 0.27% Sn | 65,000 | Exploration | na | 5 years |
| Siglo XX Mine | SAT ³ | Bolivia | Exploration stage, historically one of Bolivia's largest tin mines | | | | | |

Sources:

¹ Avenue Resources Limited ASX Release 26 March 2013

² Avenue Resources Limited March 2012 Quarterly Activities Report

³ South American Tin Ltd Investor Presentation January 2013







South American Production Overview

New Production

Minsur's Operations





Minsur's portfolio of assets







San Rafael: world's largest tin mine and low cost producer...

San Rafael and Pisco Overview

- Largest and richest ore grade tin mine in the world, producing around 8% of global tin supply
 - High grade deposit, average resource grade of 3.78%
- Over 35 years of continuous operations
- Mine life: Over 6 years (202k MT contained tin 2014)
- World class safety standards (OHSAS:18001:2007, ISO14001:2004) and strong relationship with communities
- Vertically integrated with Pisco, enabling us to sell refined tin, a higher value-added product
 - 3rd largest tin plant in the world
 - · One of the most efficient smelting plants in the world
 - Processes the totality of the ore mined at San Rafael

"Cost curve position" position (US\$ / MT) - 2014 cash cost



Tin production ('000 MT)





Treated material ('000 MT)



San Rafael: investing in Tin

Exploration program: increasing mine life

- Exploration drilling at San Rafael significantly increased.
 - 61,332 meters drilled in the year 2014
 - 26% increase in 2014 over meters drilled in 2013
 - 3,032,230 MT identified resources in 2014 (52,452 Sn MT contained)

San Rafael drilling (m)



Expansion project: San Rafael Tailing's – B2I

- Process San Rafael's old high grade tailings
- Among the world's top 10 undeveloped Tin resources
- Approximately 5.4 million cubic meters, equivalent to 7.6 million metric tons, of tailings with an ore grade of 1.05% will be available for this process
- We expect to begin production, subject to the feasibility study, in the next three years.

Top 10 undeveloped Tin resources ('000 MT)*



Source: ITRI, contained Tin

Note: San Rafael as per ITRI's estimate and consistent with methodology to estimate peers resource base





Pitinga: world's largest tin deposit

Pitinga and Pirapora Overview

- World's single largest tin deposit of contained tin resources as of 2013, Niobium and Tantalum as by-products
 - Estimated resources of 545K MT of tin with an average ore grade of 0.14% as of December 2014
 - Average mine life: Over 28 years
- · Vertically integrated through the Pirapora smelter
 - · Processes the totality of the tin ore mined at Pitinga
 - More than 99.90% of tin purity
 - Smelting capacity of 10,000 MT of concentrate per year
- Continously improving the performance of Pitinga mine:
 - Improved recovery rates and higher throughput
 - Increased tin metal production in 2013 by 39%
 - Significant capital investments scheduled for the next 2-3 years to ramp up production and economies of scale



Pitinga's performance - Refined tin production (MT)



Pitinga and Pirapora by product- cash cost evolution – (US\$/MT)¹





Additional exploration and expansion projects

- Committed to expanding production capacity and developing new operations
 - Currently exploiting only 14.2% of owned concessions
 - Exploring an additional 31.8% of mining concessions
- Have intensified exploration efforts
 - Focused on existing mining operations and surrounding areas
 - Particularly at or near San Rafael



Minsur has significant untapped potential through an extensive concession area: Total 277,939 Ha in mining rights inventory (Peru, Chile and Brazil)



World Class Safety Standards

| World class safety standards | Longstanding safety certifications and initiatives | OHSAS18001 |
|-----------------------------------|--|--------------------------|
| Training programs | Regular training programs for employees | EXAMPLE SERVER |
| World class safety initiatives | Implementing safety program based on DuPont guidelines | QU PONT. |
| Constant monitoring | Regular audits of safety controls and workers' health | |
| Strong track record of safety | Awarded John T. Ryan trophy for market leading safety standards in the years 2001, 2004, 2007, 2010 and 2012 | <u></u> |

Employee overview (December 2014) ¹



Accident frequency index





1 Applies for Minsur Mining operations & Management







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Industry Challenges – South America

- Limited investment in new projects, begs the question on sustainability of supply
 - New production and projects with lower grades and in very early stage
 - Permitting becoming more difficult and taking longer
 - Significant untapped potential but more difficult to take into production
- Social unrest and political instability affecting investment appetite and thesis
- Extension of Conflict Mineral Policies manage perceptions and expectations on supply reliability

Minsur is well positioned to undertake these challenges

- Significant investments to sustain supply
- Replacement of resources and reserves
- Low cost producer
- High quality deposits and projects grade and size
- Commitment to sustainable mining





- South America is and will continue to be a major, sustainable, Tin supplier
 - Highly endowed region size and quality of deposits
 - High exploration potential
 - Conflict-free zip codes
- However, to ensure supply sustainability we need to:
 - Increase investments in Tin
 - Accelerate the project development pipeline
- As an industry, we need to have a long term view
 - Short term price gains will not compensate risk of reductions in future demand
 - SUSTAINABILITY OF SUPPLY IS CRITICAL
- Minsur is fully committed to sustain a long term, reliable, Tin supply
 - Significant investment to replace resources and reserves (\$12M-\$15M per year)
 - Significant capital investment in expansion projects in Peru and Brasil
 - \$400M-\$500M growth capex in the next 4 years
 - Bofedal II and Pitinga expansion will increase production by ~8,000-10,000 tons of tin/yr
 - Significant investment in brownfields exploration (1.5%-2.0% of revenues)

MINSUR

A global leading integrated and sustainable Tin producer

