



# **Australasian (iron & steel) Slag Association Inc.**

## **Annual Membership Survey Results**

**January to December 2007**

Prepared by  
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## Membership Survey Results: 2007

The Australasian (iron & steel) Slag Association (ASA) conducts an annual survey for information regarding iron & steel slag production and sales by members and non-members for each calendar year. This report provides results for the 2007 calendar year.

Information provided by members and non-members is collated and then aggregated into a national set of results and include ISS production levels, and nominated uses for all slag products.

For the calendar period January to December 2007, approximately 80 percent of all ISS produced were utilised within various civil and construction applications throughout Australasia.

The survey results include all generators, (iron & steel plants) marketers, (processing and marketing companies) and users for the total production and resulting sales by each end use. Where required, data is supplemented with importation data<sup>1</sup> and other secondary data<sup>2</sup> sources for accuracy purposes.

The key results for the calendar period 2007 survey were:

- For the calendar period 2007, approximately 3.4 Mt (million tonnes) of iron and steel slag products were produced within Australasia (Australia and New Zealand).
- From the ISS produced, some 2.76 Mt or 80 percent has been effectively utilised [sold or reused for some beneficial use]
- On per capita basis, this equates to 125 kgs per person recycled or reused
- 25 percent or 0.679 Mt was used in cementitious applications - "high value add" [HVA]<sup>3</sup> Note: approx 0.25 Mt of GBFS was imported
- 60 percent or 1.63 Mt was used in non-cementitious or road construction applications - medium value add [MVA]<sup>4</sup>
- 15 percent or 0.42 Mt was in general civil or fill applications – low value add [LVA]<sup>5</sup>

In summary the recovery and reuse of ISS provide significant positive environmental impacts, including resource conservation and in this case, the reduction of greenhouse gas emissions from the processing of virgin resources.

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<sup>1</sup> Austat's based on import tariff code for Granulated Blast Furnace Slag (GBFS)

<sup>2</sup> Company annual reports and other published data sources

<sup>3</sup> HVA – High Value Add – means where ISS materials are sold for > (more than) \$100/tonne

<sup>4</sup> MVA – Medium Value Add – means where ISS materials are sold for between \$10-\$100/tonne

<sup>5</sup> LVA – Low Value Add – means where ISS materials are sold for < (less than) \$10/tonne

The following table provides more detail for individual category sales of ISS for the period 2007.

Table 1 - 2007 Slag Sales and Production Survey

		<b>Australasian (iron &amp; steel) Slag Association</b> <b>2007 Slag Sales and Production Survey</b>						
Submitting Company and Site Name								
Member's Name								
A. Slag Beneficial Use Calculations (Tonnes) (See #2 & #3)	BFS	GBFS	SFS	EAFS	KOBM	Other	Totals	
A1. Total Produced in 2007 (Jan-Dec)	1,669,711	749,111	830,000	126,000	70,000	0	3,444,822	
A2. Total 2007 Production not used [Stored] (#3)	386,398	0	180,000	75,000	40,000	0	681,398	
A3. Total 2007 Production permanently stored in 2007 (#4)	0	0	0	0	0	0	0	
A4. Total of 2007 Production Beneficially Used (Auto calc)	1,283,313	749,111	650,000	51,000	30,000	0	2,763,424	
A5. Amount Removed (If any) from Total Storage Inventory for Beneficial Use During 2007 (#5)	0	0	0	0	0	0	0	
A6. Total of All Beneficially Used in 2004 (Auto calc)*	1,283,313	749,111	650,000	51,000	30,000	0		
B. Slag Use (Tonnes)	BFS	GBFS	SFS	EAFS	KOBM	Other	Totals	
B1. Cement or Binder products	0	679,203	0	0	0	0	679,203	
B2. Feed stock for Clinker/Glass products	32,864	0	0	0	0	0	32,864	
B2. Grit Blasting products	0	0	0	0	0	0	0	
B2. Structural Fills/Embankments	58,038	0	0	0	0	0	58,038	
B2. Road Base/Sub-base	402,326	20,110	194,050	41,373	23,752	0	681,611	
B2. Rockwool products	1,553	0	0	0	0	0	1,553	
B2. Mineral Fillers (e.g Asphalt)	0	39,503	0	0	0	0	39,503	
B2. Agricultural applications	0	0	0	0	744	0	744	
B2. Water treatment/filtration products	36,507	0	173,968	0	0	0	210,475	
B2. Asphalt & Concrete Aggregates	602,987	0	0	0	0	0	602,987	
B3. Mining Applications	0	10,170	0	6,000	0	0	16,170	
B3. Waste Stabilisation/Solidification	0	0	0	0	4,182	0	4,182	
B3. Miscellaneous/Other	135,052	0	266,535	0	0	0	401,587	
B13. Total Use *(Auto calc)	1,269,327	748,986	634,553	47,373	28,678	0	2,728,917	
C. Summary Results	BFS	GBFS	SFS	EAFS	KOBM	Other	Combined	
C1. Total of all sold in 2007 (Auto calc)	1,269,327	748,986	634,553	47,373	28,678	0	2,728,917	

*Australasian (iron & steel) Slag Association*