



Alumina Limited Australian Greenhouse Gas Position

ALUMINA
LIMITED

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Who is

- Listed on ASX and NYSE
- Open register – majority Australian owned
- Only asset is 40% joint venture shareholding in world's largest bauxite and alumina business (with Alcoa Inc.)
- JV known as AWAC owns 8 refineries, 7 mines, 2 smelters in 7 countries



A global alumina and aluminium producer

- Eight refineries
- Seven bauxite mines
- Two smelters

- Alumina Limited owns 40% of Alcoa of Australia
 - Bauxite mining in Western Australia
 - 3 alumina refineries in regional Western Australia
 - 2 aluminium smelters in Portland and Geelong, Victoria

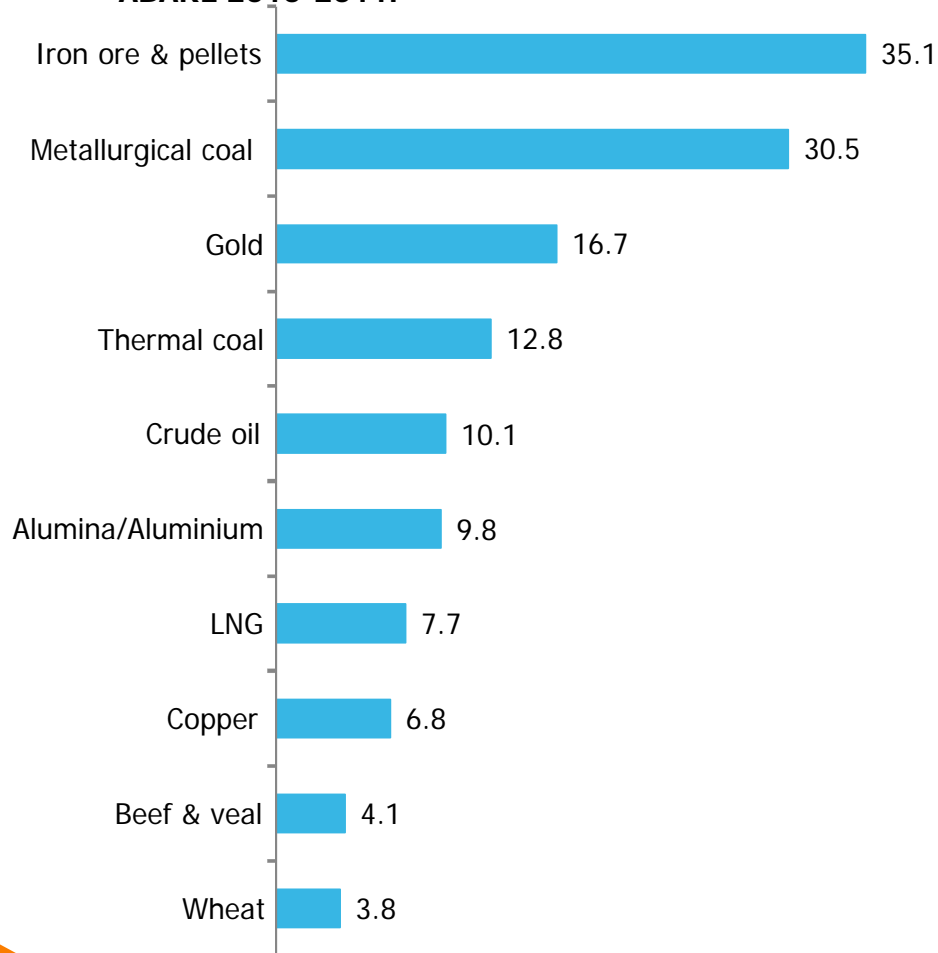


All assets 100% owned by AWAC except

Portland Smelter – 55%	Guinea – 23%
Sao Luis – 40%	MRN – 9.6%
Jamalco – 55%	Ma'aden – 25.1%

Australia's highest manufactured export earner

Australian commodity exports by value (A\$bn)
ABARE 2010-2011F



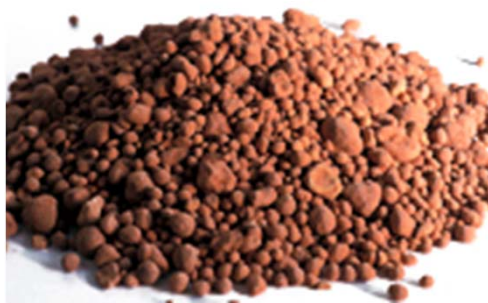
- The Australian aluminium industry:
 - is globally competitive
 - adds significant value to an Australian resource (bauxite) by processing into alumina and aluminium
 - Aluminium industry employs 17,000+ people and with flow on impacts sustains more than 50,000 regional families*

**Source: Australian Aluminium Council Ltd*

Australia is a leader in the global industry

Bauxite

Australia	33%
China	19%
Brazil	15%
India	9%
Guinea	8%



Alumina

China	31%
Australia	26%
Brazil	10%
India	5%
USA	4%



Aluminium

China	41%
Russia	9%
Canada	7%
Australia	5%
USA	4%

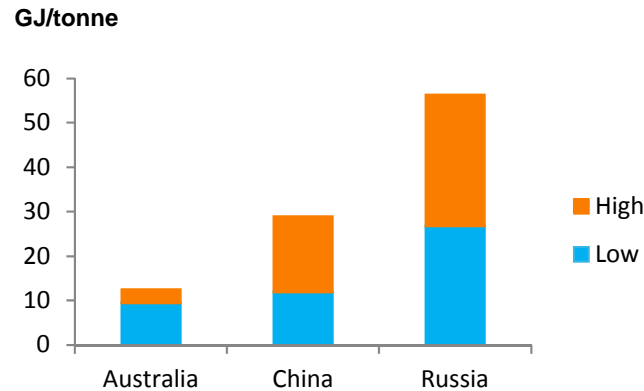


Aluminium is the second most used metal after iron

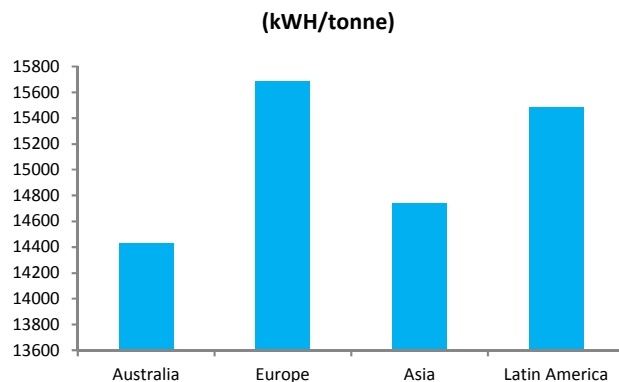
Source: Australian Aluminium Council Ltd

Australia is a globally energy-efficient producer

Alumina Energy Use¹



Aluminium Energy Use¹

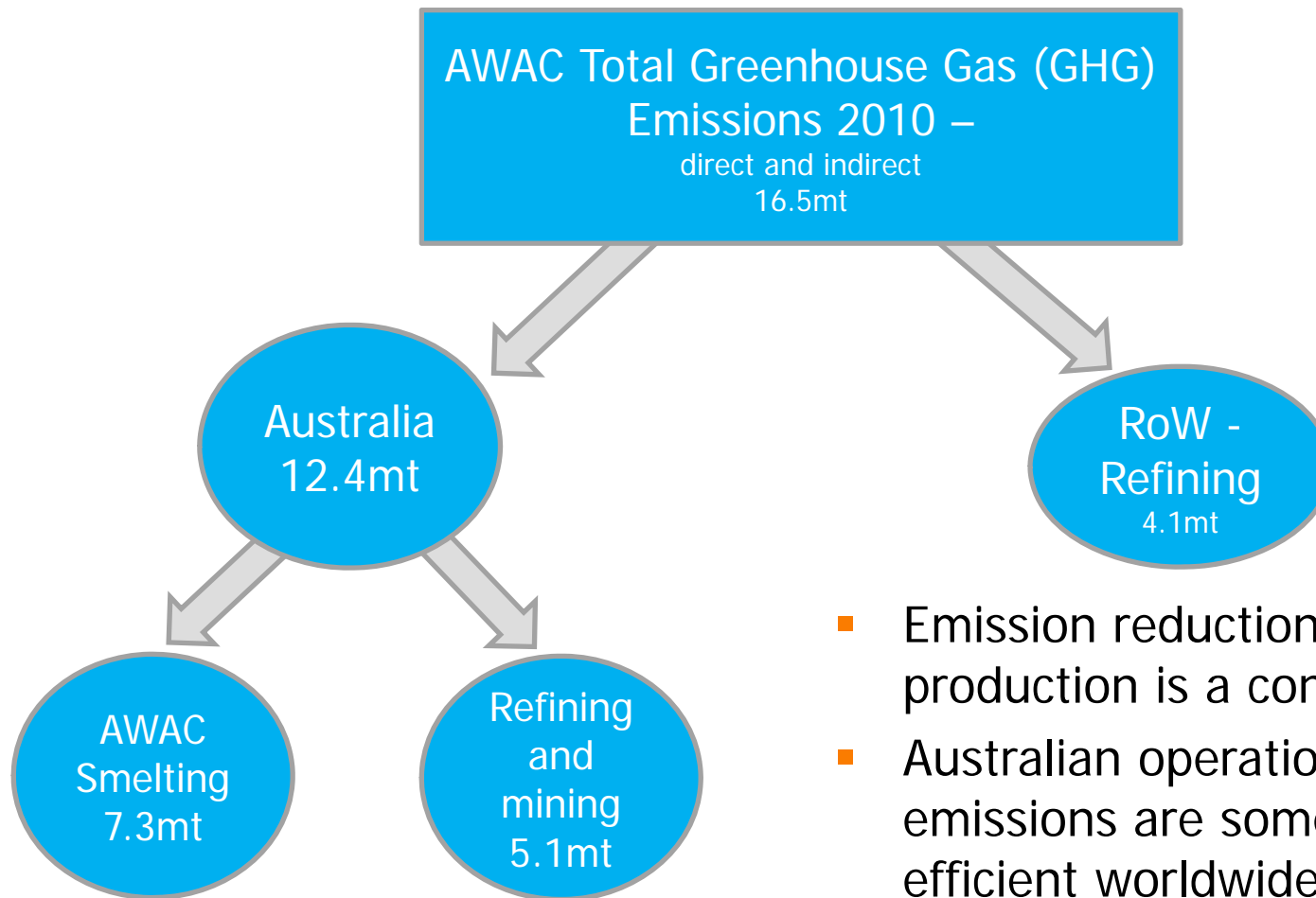


¹ Source: International Aluminium Institute (2009 data)

- Any carbon tax impost reduces Australia's international competitiveness
- China world's largest and fastest growing alumina and aluminium producer
- Chinese future smelters expected to mainly run on electricity from regional captive coal
- China currently has virtually no carbon impost (US\$0.85/tCO₂)²
- Energy used in Australia's alumina production and in smelting is better than the global average

² Source: Australian Aluminium Council 2010

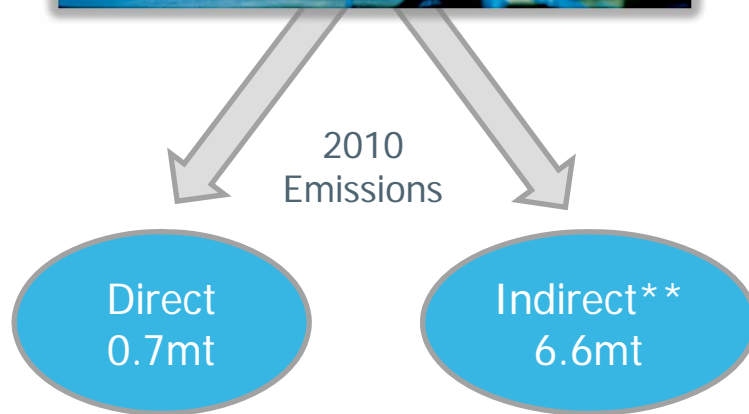
AWAC* is a global producer



- Emission reduction per tonne of production is a constant objective
- Australian operations direct emissions are some of the most efficient worldwide

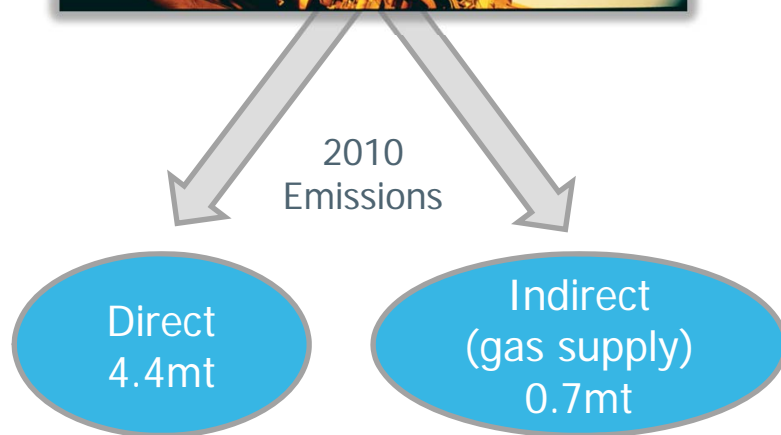
*AWAC is the global joint venture 40% owned by Alumina Limited and 60% by Alcoa Inc.

AWAC's Victorian smelter operations



- Smelter production
356,000+t (AWAC share)
- Total AWAC GHG emissions
7.3mt**
- Direct GHG emissions
reduced 65% per tonne since
1990
- GHG emissions per tonne
down 8% since 2008 and 3%
2009-10
- Aluminium is Victoria's largest
export

AWAC 's Western Australian refining operations



- AWAC W.A. refineries produce 9 million tpa of alumina – largest alumina cluster globally
- Total AWAC mining and refining emissions 5.1 million tonnes in W.A.
- Refining reduced GHG intensity 23% since 1990
- GHG emissions per tonne down 1% 2009-10

Parameters of carbon tax

- Based on an initial review of the announcement by the Government, the scheme will commence 1 July 2012 with:
 - 94.5% free permit allocation factor applying for smelting and refining
 - 1.3% p.a. permit decline (90% floor expected if 70% of relevant global competitors do not have comparable carbon constraints)
 - Scheme based on direct emissions and contractual arrangements will govern the electricity and domestic gas pass through of carbon tax costs for indirect emissions
 - Fixed price (tax of \$23/t year 1, \$24.15/t year 2 and \$25.40/t year 3, based on a 2.5% rise with 2.5% inflation) transitioning through to permit trading scheme from 1 July 2015
 - Diesel fuel rebate reductions not expected to have a significant impact on AWAC
- Until we see the Regulations we are not able to reasonably determine the impact on AWAC

Appendix 1 - GHG emissions (AWC's 40% interest in AWAC) **

		2010	2009
Location	Activity	CO ₂ equivalent (million tonnes)	CO ₂ equivalent (million tonnes)
Australia	Smelting	2.9	3.0
Australia	Refining and mining	2.0	2.0
Australia Total		4.9	5.0
Atlantic Total		1.6	1.2
Global Total		6.5	6.2
Alumina production (tonnes)		6,070,000	5,400,000
Aluminium production (tonnes)		142,300	147,200

** All figures based on calendar year and AWAC holding 55% interest in Portland and not including Alcoa's Australian rolling mills. Anglesea emissions treated as indirect.