

ASIA-PACIFIC PARTNERSHIP ON CLEAN DEVELOPMENT & CLIMATE

ALUMINIUM TASKFORCE

Presented by: Drew Clarke on behalf of John Hartwell,
Aluminium Taskforce Chair

PIC meeting
19-20 May 2008
Seattle, USA



Australian Government





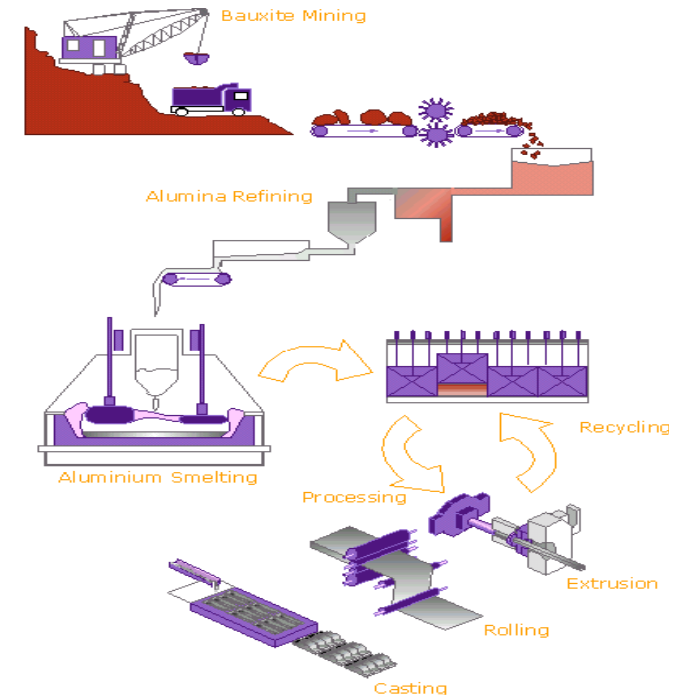
- **Taskforce meeting in November 2007 – Hyderabad, India**
 - First meeting attended by Canada
 - Held in conjunction with INCAL 2007
- **Taskforce meeting in May 2008 – Cape Town, South Africa**
 - Held in conjunction with the International Aluminium Institute (IAI) Forum
 - Commenced collaborative effort with IAI



1. Aluminium Benchmarking and Measuring



- To develop sustainability indices for measuring and benchmarking the APP aluminium sector's relative performance across areas most relevant to the Task Force's work
- Reporting consistency and efficiency gained by the use of the IAI data reporting format
- A set of eight indices covering areas including bauxite mining, alumina production, aluminium production and recycling
- Indices development to commence in January 2009 for an initial three years



Lead Partner: USA

Participating Partners:

Australia and China

Locations: Nil



Australian Government

2. Management of PFC emissions Flagship Project



Lead Partner: USA

Participating Partners:
Australia, China

Locations: USA,
Australia, China,

- Enable an agreed and recognised standard measurement of PFC emissions specific to the smelter technology used
- Use PFC emissions measurement as a tool to improve aluminium production efficiency to minimise emissions
- 2 components – a pilot PFC emission reduction system and study tours to demonstrate achievable results
 - Pilot reduction system workshop conducted on 7-11 April in China
 - Study Tour conducted at Rio Tinto smelter at Bell Bay, Tasmania in February
- Interest shown in expanding project



Australian Government

3. Management of Bauxite Residue (Red Mud) Flagship Project



- To address the high volume of bauxite residues produced during the processing of alumina from bauxite
- Develop viable technology and practices for the alternative use of bauxite residues that will reduce the reliance of stockpiling and storage
- CSIRO engaged to undertake the project
 - Literature reviews have commenced to identify current practices



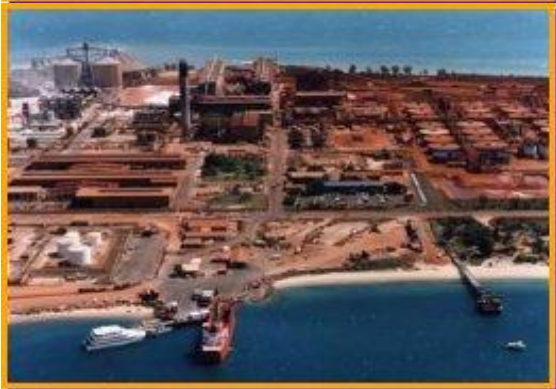
Lead Partner: Australia

Participating Partners:
China and India

Locations: Australia,
China, India



4. High Silica Bauxite Processing



- Develop environmentally and economically viable ways of processing high silica bauxites to reduce energy and caustic soda consumption
- Review current practices to limit reactive silica and lower soda forms of desilica product, develop processing options and conduct pilot trials
- CSIRO engaged to undertake the project which will commence shortly

Lead Partner: Australia

Participating Partners:

China and India

Locations: Australia,
China, India



5. Fluoride Emissions Management



- To provide smelter operators with the ability to compare their fluoride emissions performance to the global average and implement best practice fluoride emission management
- The project had a delayed commencement due to the overlap with the PFC project as both relate to 'pot room' operations
- Initial consultations have taken place and the project is now ready to commence



Lead Partner: Australia

Participating Partners:
China and India

Locations: Australia,
China, India



6. Aluminium Recycling



- Develop a mechanism for establishing baseline recycling rates for aluminium and an annual reporting mechanism to monitor the progress of each APP member
- The project will also develop a database of best practices for collection and recycling operations
- Recycling has been included in the Measuring and Benchmarking project as one of the eight indices
- Task Force to consider the future of this project



Lead Partner: USA/Japan

Participating Partners:
Australia and China

Locations: Nil



Project 7. Linkages to technology providers



An essential resource of aluminium industry technologies and providers

Aluminium Industry Technology Directory

Asia-Pacific Partnership on Clean Development and Climate



Australia | Canada | China | India | Japan | Republic of Korea | United States of America



SEARCH NOW

ADVANCED SEARCH

USER LOGIN

REGISTER YOUR BUSINESS

About this site

Developed for the APP Aluminium Task Force, the purpose of this register is to provide a central database of technology providers from around the globe.

Through this website, you will be able to:

- **Include your business** on the register, or
- **Search the directory** for technology providers that will be able to assist you in improving the efficiency of your business.

Technology providers can assist business and industry to adapt technologies that will improve energy efficiency, reducing the impact of the industry's operations on the environment.

Further information

If you have any questions or enquiries, please send us an email at APPAluminiumTF@ret.gov.au



Next steps for the Taskforce



- Continue to implement the Action Plan projects
- Examine the Task Forces activities to ensure the issues of importance to the Aluminium sector are covered
- Possible areas of further work include:
 - Energy Productivity
 - Disposal of Spent Pot Linings
 - Carbon capture in Bauxite Residue
 - Net Carbon Consumption in Smelters
- Broadly engage the industry in project outcomes through Task Force Project Workshops