



## **Alcan Investor Workshop**



## Toronto, October 3, 2006

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## **Forward Looking Statements**



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## Agenda



Business Context

- Operational Excellence
- Technology Leadership
- Profitable Growth Opportunities

#### Summary

## **Primary Metal Operations**





- One of the two largest aluminum producers in the world with total primary metal capacity of 3.5 Mt (10% of world)
- 21 smelters on 5 continents
- 12 power facilities with total owned capacity of 4,370 Mw
- World leading market position in smelting technology

## Primary Aluminum Consumption and Production Constraints





## Shift In Aluminum Production Centers: 1980 – 2005 – 2020





## **Strategic Direction**

APMG is becoming the global leader in the primary aluminum industry and the supplier of choice through:

- World class, low-cost operational excellence
- Market leading position with cutting-edge AP technology package and engineering solutions
- World-class EHS performance
- Sustainable value-creating solutions







## **A Leader in Aluminum Production**



#### Alcan's production has significantly increased and diversified geographically



#### Hot Metal Production (000kt)

#### **APMG Geographic Smelting Capacity**



## **EHS Performance - Safety**



#### Safety results improving continuously

#### Recordable and Lost Time Injury / Illness Case Rate



- Since 2003, 70% improvement in recordable and LTII case rate
- All sites have been certified OHSAS 18000 and ISO 14001.
- Implementation of EHS FIRST.
- Initiatives on pedestrian safety and hazardous energy control reduced the severity of APMG injuries.

## **EHS Performance - Environment**



#### Successfully addressing GHG emissions while increasing production



#### **Direct Total GHG Emissions**

#### **Key Facts**

- Since 1990, GHG emissions rates have been reduced by more than 50%
- Significant efforts are being applied in operations and R&D to further reduce emissions

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## **Competitive Position**



#### Close to 90% of APMG production is based on self-generated power and long term contracts



## **Value-Added Products**

**Product Mix** 



#### In 2006, APMG will reach new sales record for total VAP sales



- World's largest third party supplier of Value Added Products (VAP)
- In 2006, we expect record sales in 4 of 5 our product lines.
- Total 2006 VAP sales will exceed previous record sales
- Industry player with the best overall market knowledge.

## **Alcan Leadership on Cost Drivers**



Moving simultaneously on all value drivers, through our current asset optimization initiatives and technological solutions, creates a sustainable business for the future





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## **Continuous Improvement System**



#### CI deployment delivering substantial value across all Primary Metal Group sectors



# Key Facts CI projects More than 800 projects

- More than 800 projects since 2004 with US\$ 88 million BGP realized and another US\$ 51 million in execution
- Very good deployment progress; By end 2007 all young high potential employees would have been trained as BB
- Average annual BGP from a BB project is around US\$ 0.4 million

## **Cell Technology Leadership**



With a track record of ~6,000kt of production, Alcan's AP technology leads the global market with proven leadership in all aspect of operating cost drivers



#### **AP Technology Global Presence**

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## Alcan's Smelting Technology: An Unsurpassed Offer



Alcan's global leading edge smelting technology package is an unparalleled competitive advantage



- Most sustainable, comprehensive and proven smelting technology, engineering and services package
- Leadership in full economic cost
- Substantially higher returns on Alcan sponsored projects
- Increased focus on potential breakthroughs related to AP30 and AP50 platforms

## **Growth Through Strategic Initiatives**











## Growth Through Strategic Initiatives Using AP Smelting Technology



#### All projects are in the 1st Quartile of the industry curve

#### Kitimat Modernization (Canada)

- State of the art facility (400 kt)
- Self generated Energy

#### ISAL Brownfield (Iceland)

- Europe's largest smelter (460 kt)
- Mainly geothermal power < \_\_\_\_</p>

#### Alouette Brownfield (Canada)

America's largest smelter (554 kt)
 Completed on budget and ahead of schedule

#### Sohar Greenfield (Oman)

- Phase I under construction (350 kt)
- Dedicated power supply
- Potential phase II (350 kt)

#### Coega Greenfield (South Africa)

- 720 kt to be built consequently
- Long-term energy contract (25 years)

Expansion / Retrofit
 Greenfield

# Unique energy position and efficient, low cost facilities



#### **Target: 55% of production in first quartile**



World Ranking Site Corporate Operating Costs - 2005

Source: CRU 1) Position in 2004

## **Sources of Advantage**



- Significant self-generated energy assets and long-term, competitivelypriced energy contracts
- World-class, low-cost smelting operations with further AOS potential
- Diversified operational position from geographic and customer standpoint
- Market leading position with AP technology combined with proven engineering expertise providing:
  - Access to attractive new smelter projects
  - Incremental profit from sales of technology licenses, equipment, and services
- Access to diverse pipeline of new project opportunities due to superior market intelligence, 'preferred company' status, and regional know-how

