

3rd International Conference on Sustainable Development Indicators in the Minerals Industry

Milos Island, Greece 17-20 June 2007

Sustainable Development at Rio Tinto

Preston S. Chiaro Chief Executive Energy, Rio Tinto www.riotinto.com

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Rio Tinto – a leader in sustainable development



Rossing: Namibian women harvesting asparagus on Rossing Foundation Asparagus Farm in the Namib desert. The farm teaches skills and creates jobs.



We aspire to be the:

- Developer of choice
- Employer of choice
- Supplier of choice
- Neighbor of choice



Rio Tinto – a world leader in mining



Technology



Exploration



Aluminium



Copper



Minerals and Diamonds





Iron



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Sustainable Development Leadership Panel

- Embed SD culture throughout Rio Tinto
- Incorporate SD principles in key performance indicators
- Improve communication connections
- Consider SD in the supply chain
- Build SD into risk assessments
- Build SD into long range planning
- Quantify business benefits of SD
- Develop SD guidelines for joint ventures
- Partner with SD leaders



Rio Tinto - a leader in safety



Note: Data for Australia and the USA has been normalised to include restricted workdays and contractors in the LTIFR calculation.

Source: Rio Tinto

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Rio Tinto Industrial Minerals





Rio Tinto Diamonds helped form the Council for Responsible Jewellery Practices





Rio Tinto HIsmelt® improves steel-making and reduces GHG emissions





The climate change science "debate" is over





Building support for government action

- Encourage leadership
- Set credible limits for future emissions
- Support technology development and deployment
- Utilize broad-based market mechanisms
- Encourage international linkages for technology development AP6, CSLF, G8 + IEA



Developing low emission pathways for our products





Taking a proactive stance at our operations to reduce greenhouse gas emissions





Climate change adaptation is an important risk management issue











Climate change could affect our operations within their current reserve lives





Perfluorocarbons have been drastically reduced at our smelting operations





Efficient use of energy can avoid GHG emissions, and is being addressed through excellence in energy management





New mining techniques can reduce material movements





Increasing comminution efficiency offers potential for improvements





We must work with our customers to address climate change





Thermal insulation can meet existing Kyoto commitments in Europe





High efficiency motors offer new markets and reduced energy consumption





World primary energy demand continues to rise

Oil, gas and coal together account for 83 percent of the growth in energy demand between now and 2030 in the Reference Scenario



ref: World Energy Outlook 2005 - Middle East and North Africa Insights, International Energy Agency, 2005.



Renewables have a key role to play





Energy Resources of Australia





Rössing Uranium





Rio Tinto Coal Australia





Rio Tinto Energy America





World energy reserves 2006



Sources: BP Statistical Review 2007; WEC Survey of Energy Resources 2001; Reasonably Assured Sources plus inferred resources to US\$80/kg U 1/1/03 from OECD NEA & IAEA Uranium 2003; Resources, Production & Demand updated 2005; *energy equivalence of uranium assumed to be ~20,000 times that of coal



LCA power generation emissions from nuclear and CCS match those from renewables





Coal gasification offers an efficient means of separating and capturing CO₂







a joint venture



Size does matter!

Cumulative globally sequestered CO₂

Cumulative global need to sequester $CO_2 \rightarrow$





Good governance is the foundation of sustainable development





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