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Drawing Sustainability into Project Development and Operations



Centre for
Sustainable
Resource
Processing

www.minerals.org.au/sd07

The case for further activity

Business and Social imperatives for further action in SD

> Global



Images courtesy of Energetics p/l

Calls for 20% cuts

Calls for 50% cuts

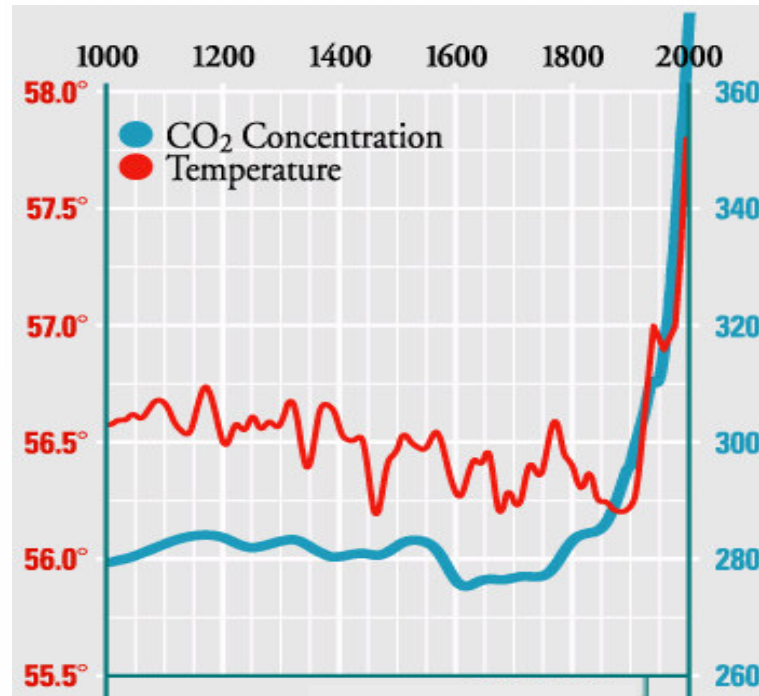
Calls for 80% cuts



> Australia

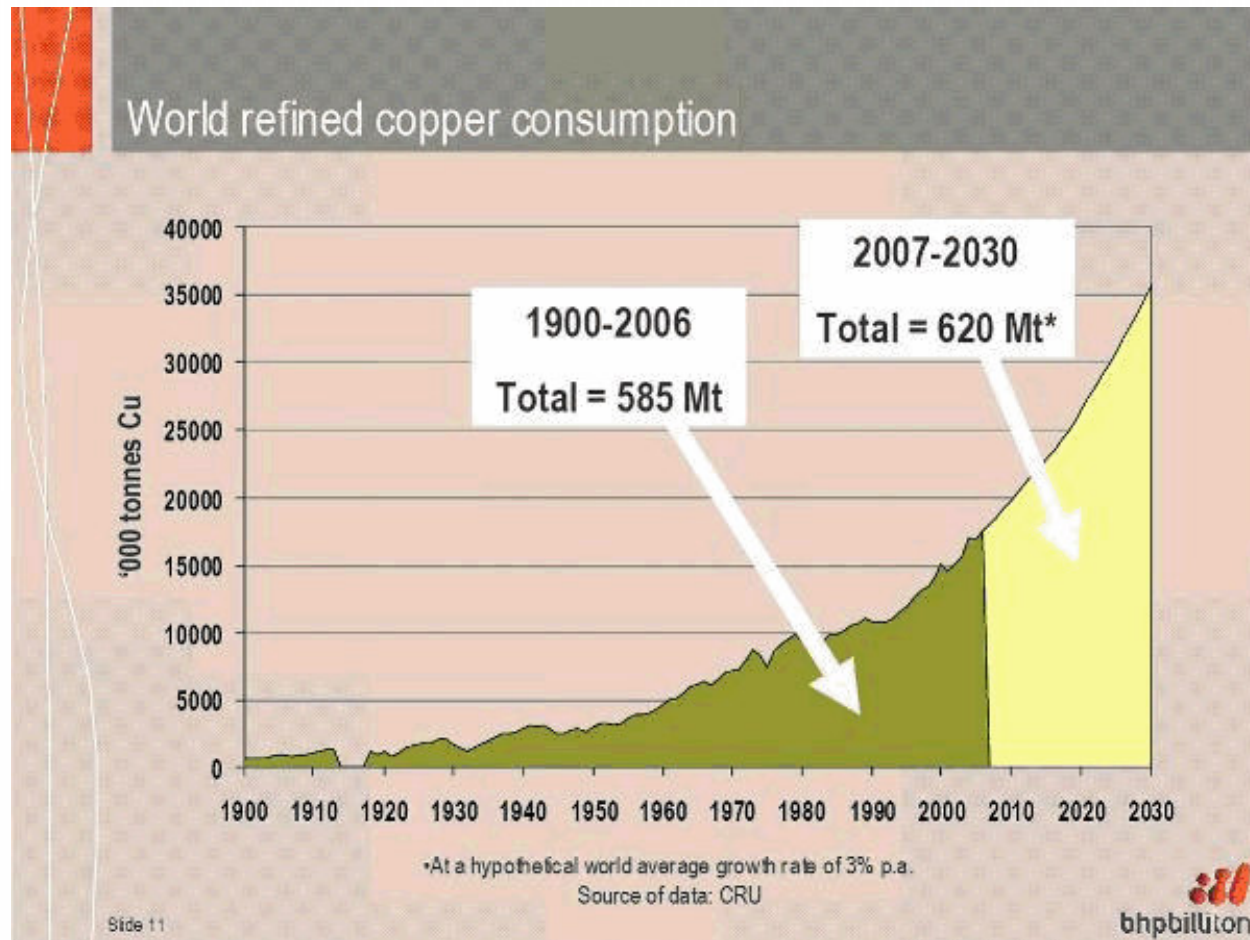


Atmospheric CO₂ Concentration and Surface Temperature

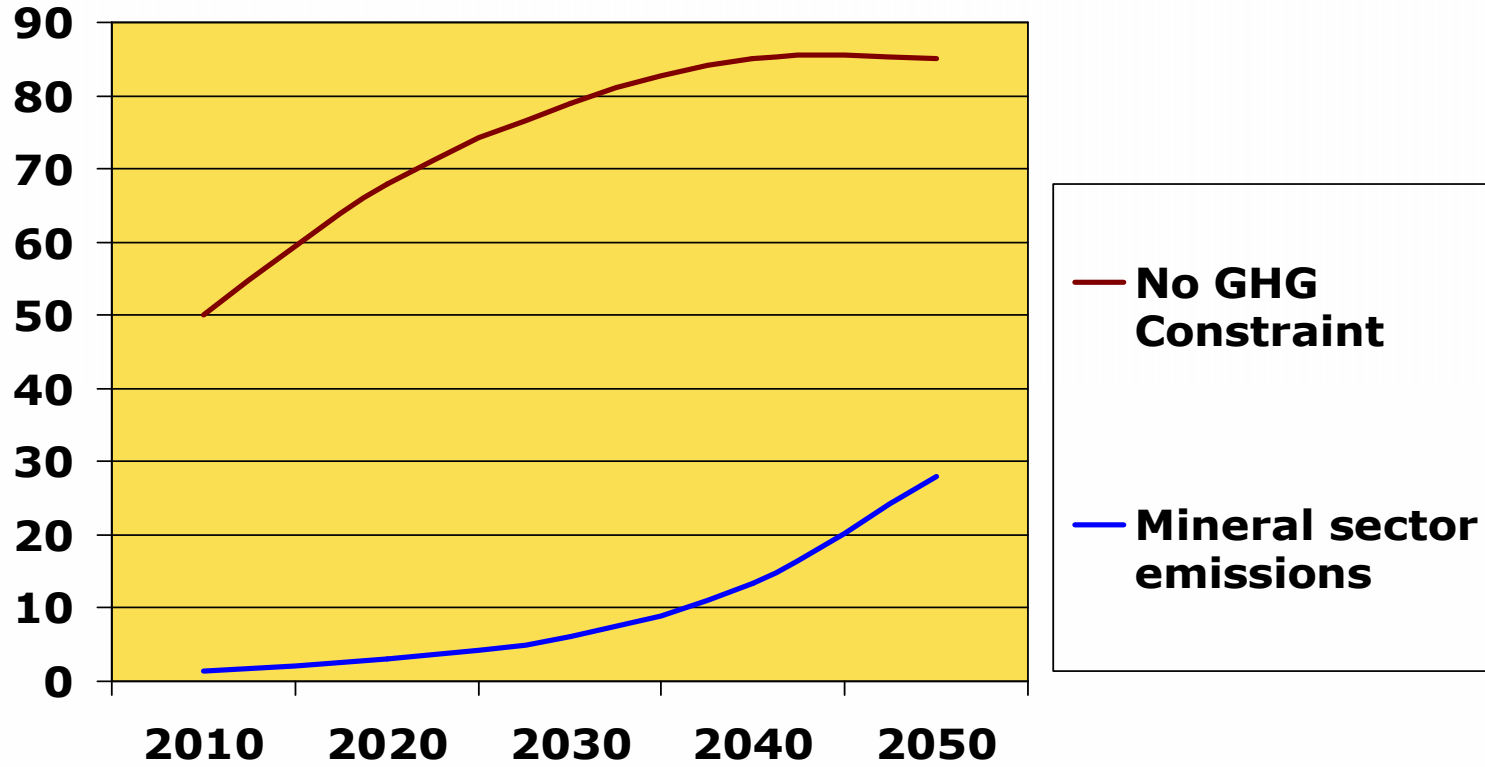


Sourced from : [IPCC Sounds Alarm on Global Warming, Bush Tries Not To Hear](#)

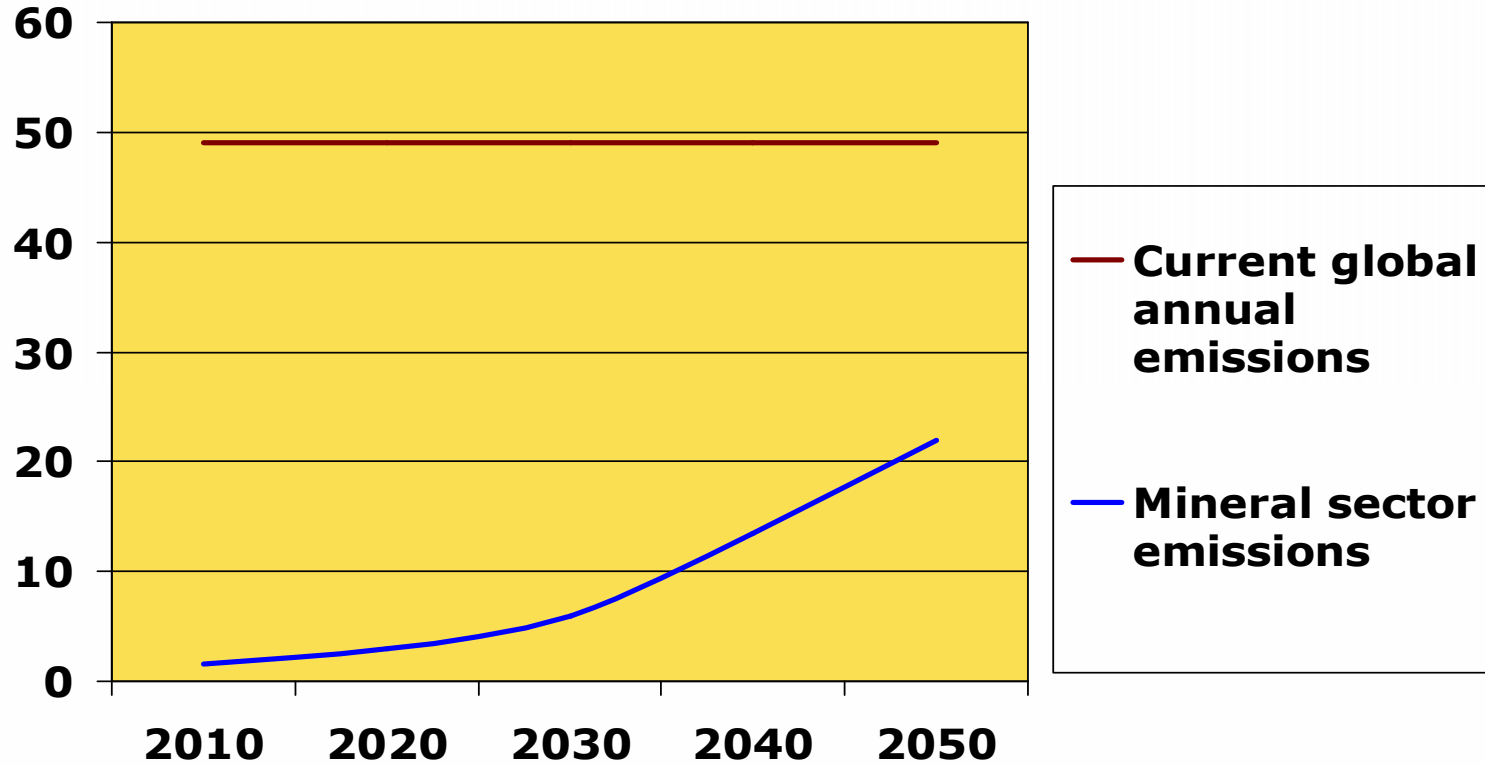
Growth forecasts



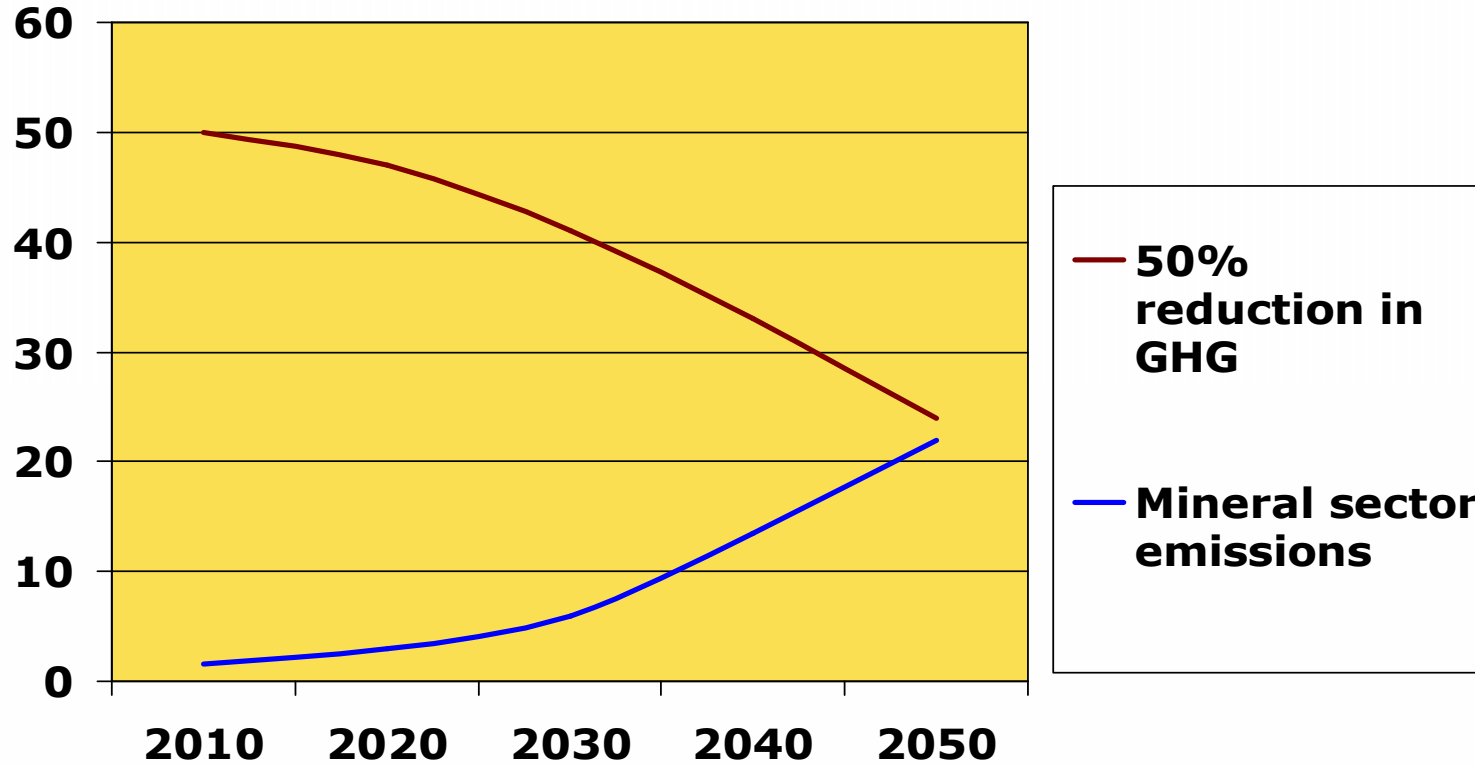
Minerals Sector GHG Emissions



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Sustainability

LIMITS TO GROWTH FOR AUSTRALIA'S INDUSTRY

..... global demand continuing at 2% per year

2050

- **Energy use**
 - Will increase several fold with decreasing average ore grades
- **Water use**
 - Increasing to 20% of current national water consumption
 - Waste treatment on a large scale
- Deep cuts in **carbon intensity** would be necessary



SD07 A CLIMATE FOR CHANGE



Sustainability

A Sustainable Future for Minerals Means -

More minerals produced by processing more tonnes of feedstock,
more minerals extracted with less
energy, water, waste and greenhouse gases

www.csrp.com.au