RioTinto

A mining perspective of the decarbonisation journey

Rachelle Doyle FenEx CRC Conference



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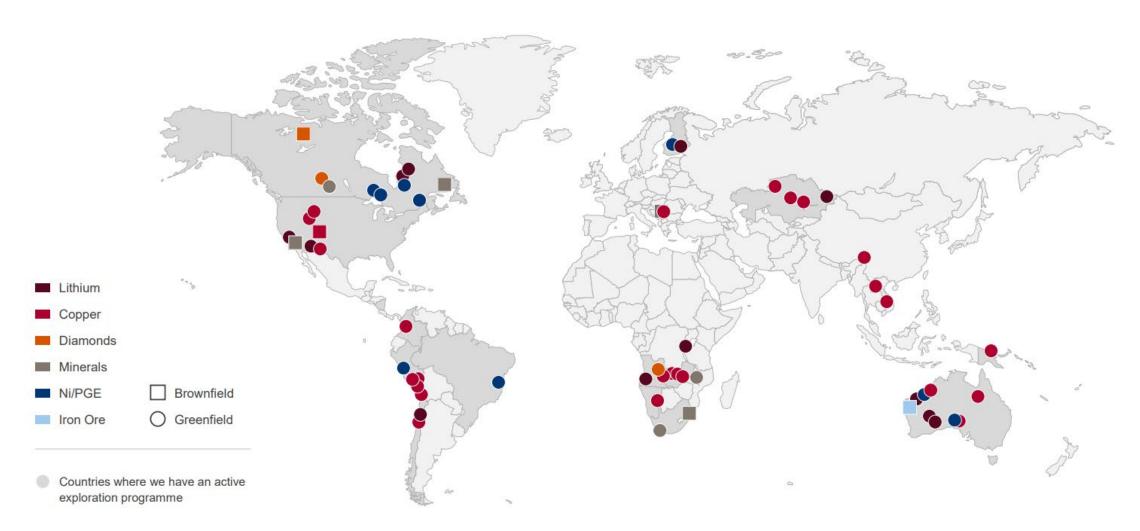
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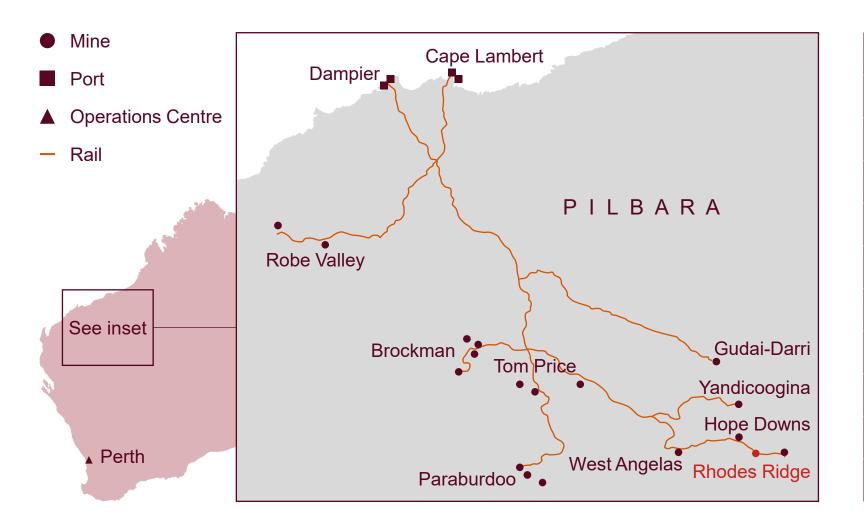
Finding better ways to provide the materials the world needs





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The Pilbara is a globally significant bulk commodities business...

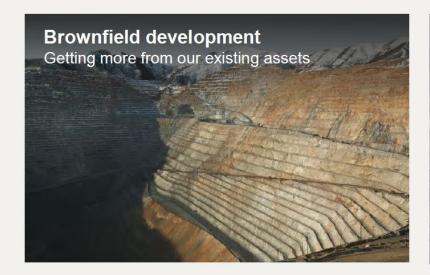


17	Mines
430	Haul trucks (361 automated)
60	Production drills (34 automated)
17	Processing plants (7 wet plants)
1,900	Rail network distance (km)
220	Locomotives (13,500 wagons)
7	Car dumpers
4	Port terminals
4	Gas-fired power stations
1	Solar farm (34 MW)
> 100	Global customers



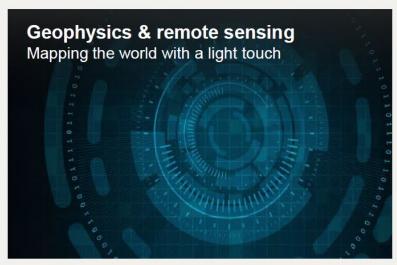
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Energy Transition Approach

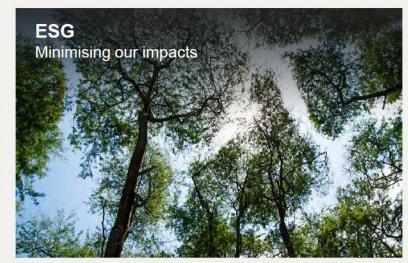






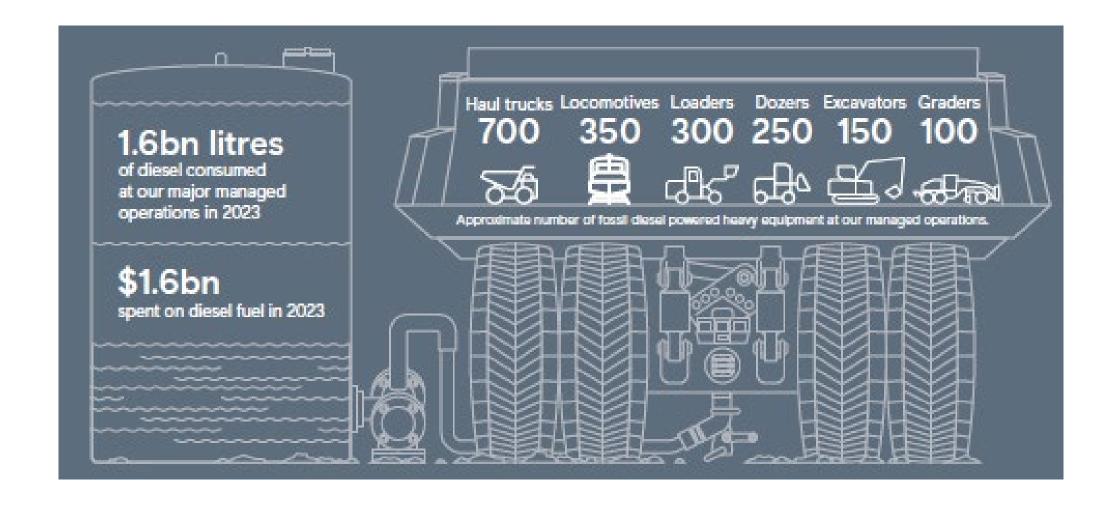






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Our Diesel Fleet



Transition Challenges

- Mining solutions must be adaptable to changing mine plans we need flexible solutions
- Infrastructure is required to support the large-scale transition to an electric mining fleet
- Current technology for electric vehicles and charging and does not deliver what we need for safety and reliability in our operation's harsh environment

Haul Truck Case Study

- Creating options for decarbonisation is key
- Revisiting truck size is one way to create solutions:
 - Smaller commercial sized vehicles can leverage broad industry effort for early electrification
 - Bigger batteries and lower power requirements result in reduced technical risk
- Our partnership with Scania to develop smaller autonomous trucks opens a pathway



Scania autonomous electric trucks in the Pilbara, Western Australia

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Mobile Diesel Transition Pathway

- 1. Improve fuel efficiency and deploy partial abatement solutions
- 2. Use alternative fuel sources including renewable diesel
- 3. Plan for battery electrification to deliver emissions reductions at scale after 2030

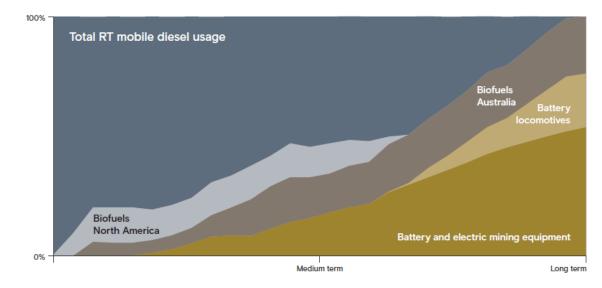


Figure: Medium to Long Term Mobile Diesel Use Transition

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