

# Rio Tinto and China's State Power Investment Corporation launch battery swap truck trial fleet at Oyu Tolgoi mine

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[Rio Tinto](#) and China's State Power Investment Corporation (SPIC) Qiyuan have launched a trial of battery swap electric haul truck technology at the Oyu Tolgoi copper mine in Mongolia.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20251026376828/en/>

The trial is Rio Tinto's first use of battery swap electric haul trucks in surface mining operations. This is a major step towards developing the cost-effective technology and operational learnings required to reduce emissions from mining haulage fleets - one of the largest contributors to the company's Scope 1 and 2 carbon footprint.

Over the last year Rio Tinto and SPIC Qiyuan have delivered and installed a fleet of eight 91-tonne Tonly trucks, together with 13 batteries (each 800 kWh), a battery swapping station, static charger, and supporting infrastructure.

The trucks will now be used by Oyu Tolgoi for tailings dam construction and top soil transportation tasks, providing Rio Tinto with hands on experience operating and maintaining a complete battery electric truck and swap charging system.

Battery swapping technology allows the battery of an electric mining truck to be replaced at a battery swap station in less than seven minutes, without the need to charge the vehicle at a fixed charging facility. This minimises downtime and improves equipment efficiency.

Rio Tinto General Manager Global Equipment and Diesel Transition Ben Woffenden said: "The launch of this trial with SPIC Qiyuan is an important milestone, harnessing China's widely used and leading battery swap technology in a partnership that supports Rio Tinto's drive to accelerate low-carbon innovation. The rapid deployment and fast-tracked operational learnings have highlighted the importance of partnerships in advancing low-emission haulage alternatives for our business.

"By working with partners such as SPIC Qiyuan and Tonly, Rio Tinto is rapidly identifying and adopting cost-effective, proven innovations that can support operational excellence and advance decarbonisation goals."

General Manager of Qiyuan Green Power, Mr. Guo Peng said: "We are honoured to partner with Rio Tinto to launch this milestone battery-swap truck trial at the Oyu Tolgoi mine. SPIC Qiyuan is committed to advancing green energy technology innovation, and this partnership showcases the significant potential of our proven battery-swap solutions in helping global mining customers reduce emissions and enhance operational efficiency. We look forward to deepening our collaboration with Rio Tinto to jointly explore broader prospects for the mining industry's low-carbon transition."

The equipment will be tested through to the end of 2026 and will help Rio Tinto identify opportunities for wider adoption of this low emission technology across the company. Rio Tinto's global fleet of 700 haul trucks includes about 100 small or medium class (100-200t payload) vehicles, offering the potential to adopt current-generation battery swap technology.

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## Contact

Please direct all enquiries to [media.enquiries@riotinto.com](mailto:media.enquiries@riotinto.com)

Media Relations,  
United Kingdom  
Matthew Klar  
M +44 7796 630 637  
David Outhwaite  
M +44 7787 597 493

Media Relations,  
Australia  
Matt Chambers  
M +61 433 525 739  
Rachel Pupazzoni  
M +61 438 875 469  
Bruce Tobin  
M +61 419 103 454

Media Relations,  
Canada  
Simon Letendre  
M +1 514 796 4973  
Malika Cherry  
M +1 418 592 7293  
Vanessa Damha  
M +1 514 715 2152

Media Relations,  
US & Latin America  
Jesse Riseborough  
M +1 202 394 9480

Investor Relations,  
United Kingdom  
Rachel Arellano  
M: +44 7584 609 644  
David Ovington  
M +44 7920 010 978  
Laura Brooks  
M +44 7826 942 797  
Weiwei Hu  
M +44 7825 907 230

Investor Relations,  
Australia  
Tom Gallop  
M +61 439 353 948  
Phoebe Lee  
M +61 413 557 780

[Rio Tinto Plc](#)  
6 St James's Square  
London SW1Y 4AD  
United Kingdom  
T +44 20 7781 2000

Registered in England  
No. 719885

[Rio Tinto Ltd.](#)

Level 43, 120 Collins Street  
Melbourne 3000  
Australia  
T +61 3 9283 3333  
Registered in Australia  
ABN 96 004 458 404

riotinto.com

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