

Rio Tinto transitions to renewable diesel at Kennecott

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[Rio Tinto](#) has completed the transition from conventional to renewable diesel for all heavy mining equipment at its Kennecott copper mine in Utah, giving the mine one of the lowest carbon footprints of any copper producer in the United States.

Kennecott's fleet of 97 haul trucks and heavy machinery equipment at the mine, concentrator, smelter, refinery and tailings are now all fueled by renewable diesel¹ sourced in the United States. This is expected to reduce the mine's Scope 1 emissions by 450,000 tonnes, equal to eliminating the annual emissions of 107,000 cars. In addition, the switch to renewable diesel reduces PM2.5 (particulate matter less than 2.5 microns) emissions at the tailpipes of our haul truck fleet by 40%, a reduction equivalent to approximately 2.3 billion miles of light vehicle travel annually.

Kennecott has one of the lowest carbon footprints of any copper producer in the United States, thanks to recent initiatives such as the closure of a coal-fired power plant, installation of a 5-megawatt solar farm, deployment of battery electric vehicles underground, and the transition to renewable diesel. The operation's overall carbon footprint has now been reduced by more than 80% from 2018 levels.

Speaking at an event on site with the Governor of Utah, Spencer J. Cox, to celebrate the achievement, Rio Tinto Copper Chief Operating Officer Clayton Walker said: "The transition to renewable diesel is a significant step toward our decarbonisation goals at Kennecott where we have now reduced emissions by 80%, thanks to a range of initiatives in recent years. We remain committed to being responsible stewards of the environment and are always looking to find better ways to provide the materials the world needs for the energy transition."

Kennecott's transition to renewable fuel will also make low-carbon fuel more accessible in the state of Utah. In partnership with Kennecott, HF Sinclair is dedicating two tanks to renewable diesel for the mine with each having tank capacity of 18,000 barrels or 756,000 gallons.

HF Sinclair Executive Vice President, Commercial, Steven Ledbetter said: "We're proud to support Rio Tinto's sustainability journey with a low-carbon fuel produced at our facilities. We're excited to see Kennecott move from trial to full implementation and what this could mean for other industries with evolving energy needs."

In 2023, Kennecott conducted an initial trial of renewable diesel, which compared two trucks using regular diesel against two using renewable diesel. Officials measured the trucks' acceleration, cycle time, fuel usage, and engine inspection reports. The renewable diesel was trialled successfully, complementing similar test findings from Rio Tinto's Boron mine in California.

Combined with Rio Tinto's Boron mine - which completed the full transition of its heavy machinery from fossil diesel to renewable diesel in May 2023 - renewable diesel use at Kennecott replaces 11% of Rio Tinto's global fossil diesel consumption with renewable diesel.

Rio Tinto is targeting reductions in Scope 1 and 2 emissions of 50% by 2030 and net zero by 2050.

¹ The renewable diesel being used is currently a combination of 90% soybean and the remainder animal fat and used cooking oil.

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Contact

Please direct all enquiries to 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
Michelle Lee
M +61 458 609 322
Rachel Pupazzoni
M +61 438 875 469

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
Jesse Riseborough
M +1 202 394 9480

Investor Relations, United Kingdom
David Ovington
M +44 7920 010 978
Laura Brooks
M +44 7826 942 797
Wei Wei Hu
M +44 7825 907 230

Investor Relations, Australia
Tom Gallop
M +61 439 353 948
Amar Jambaa
M +61 472 865 948

[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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