

# New Gold achieves 15% fuel saving at Rainy River thanks to Cascadia Scientific Solution

**Vancouver, Canada - October 2023.** New Gold takes bold strides towards sustainable mining, achieves significant GHG reductions with Cascadia Scientific.

New Gold, an intermediate gold mining company at the forefront of responsible mining, is making significant progress in its sustainability initiatives. With a steadfast commitment to reducing greenhouse gas (GHG) emissions, New Gold has set an ambitious target to reduce emissions by 30 percent by 2030, measured from a 2020 baseline. The company's dedication to sustainable mining practices continues to drive innovation in electrification and energy reduction strategies, including the implementation of Cascadia Scientific in August 2022.

Cascadia Scientific Terrain tools, specifically designed for haul trucks, seamlessly integrate high-precision fuel consumption data with measurements of road grade, vehicle speed, position, motion, and altitude. These combined data points are used to construct detailed visual representations of the haul road network, enabling mining operations to pinpoint areas for improvement. By targeting road enhancement interventions, New Gold has successfully reduced fuel consumption, GHG emissions, and the wear and tear on equipment.

In New Gold's 2022 Environmental, Social, and Governance (ESG) report, the company proudly showcased its innovative collaboration with Cascadia Scientific. "In August 2022, Rainy River installed the Cascadia heat mapping system," the report stated. "This technology identifies 'hot spots' along the haul route, enabling Rainy River to identify and address areas of inefficiency. Between August and December 2022, the program led to an average fuel savings of 15 percent, equivalent to 2,738.62 metric tons of CO<sub>2</sub>e emissions.

New Gold's partnership with Cascadia Scientific exemplifies the company's dedication to environmentally responsible mining and its unwavering commitment to meeting and exceeding sustainability goals. The success of the Cascadia Scientific Terrain solution at Rainy River operation is a testament to the innovative strides being taken within the mining industry to reduce environmental impacts.



Cascadia Scientific Inc.

# Heat Mapping to Save Fuel and Reduce Emissions

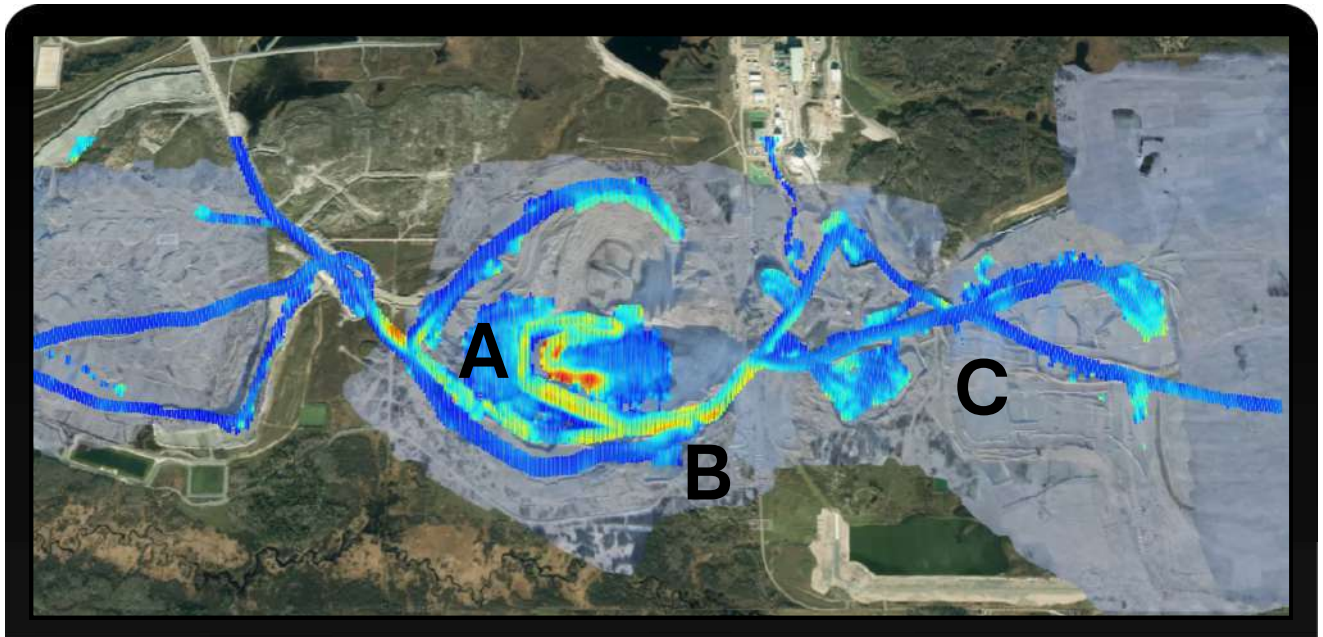
Cascadia Scientific's Technology, which identifies "hot spots" along the haul route, allowed Rainy River to identify the areas of inefficiency and rectify them. Between August and December 2022, the program achieved:

15%

Average haul truck fuel savings

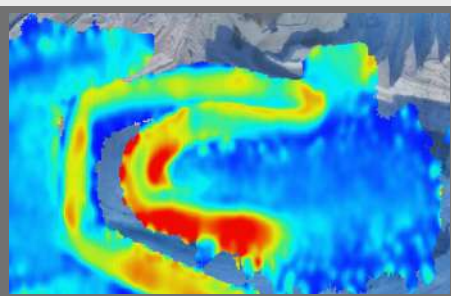
2,738

Reduction in Tons of CO2 equivalent

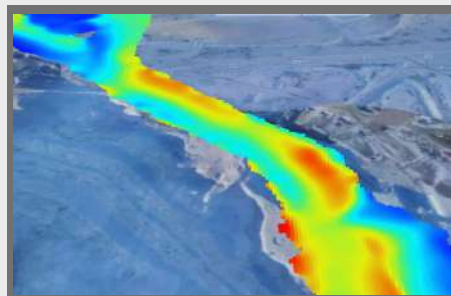


Fuel Intensity Heat Mapping at New Gold Rainy River

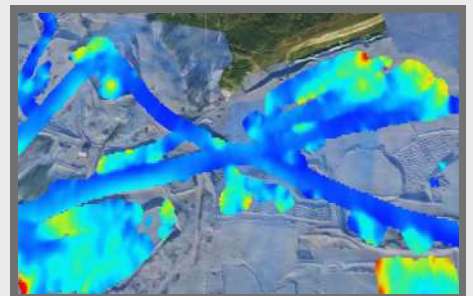
SmartRView 



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# Rainy River Energy & GHG Team Statement:

*"Cascadia Scientific has offered a highly valuable tool to measure, monitor and verify our Science-based Climate Action performance levels. Strategically implementing successful fuel-based reductions requires careful considerations across many of the important direct and indirect Haul cycle variables. Rainy River's dedicated Maintenance Teams have improved the M&V tracking level in Q3 2023 to 100% of its entire Haul Fleet. The Operations Team surpassed the expected project's 3% year over year Haul Truck Cycle fuel intensity (L/t) reductions to achieve greater than 30% since tracking was implemented, therefore continually exceeding the associated Scope 1 GHG annual reduction targets."*



*Cheryl Maki*

Cheryl Maki  
Energy Specialist CEM, CMVP, CSDP, BA  
New Gold, Rainy River

*"Seeing the remarkable progress made by New Gold and Cascadia at Rainy River, we are reminded that sustainable mining practices through technology adoption are both achievable and rewarding. New Gold's partnership with Cascadia Scientific exemplifies the company's dedication to environmentally responsible mining and its unwavering commitment to meeting sustainability goals."*



*Kevin Dagenais*

Kevin Dagenais  
CEO, Cascadia Scientific Inc.

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**International Mining Article:**

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**New Gold 2022 Environmental Report:**

[Forging the Path Forward, New Gold Environmental Report- Page 9](#)