CASE STUDY

The Kingston Wollastonite Transportation Rebate

Problem:

Lack of robust understanding of agronomic benefits can hinder farmer adoption of enhanced weathering

Solution:

Kingston Wollastonite Transportation Rebate Program

- Municipal rebates reduce the cost of transporting wollastonite to local farms
- Existing agricultural equipment allows seamless integration into current farming practices
- Public-private partnerships support deployment, monitoring, and carbon removal verification

Key Actors:

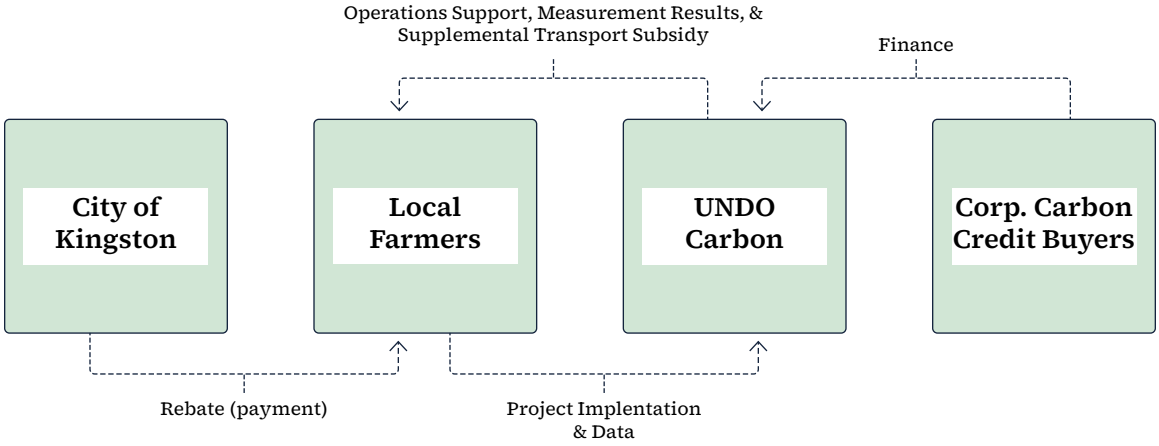
City of Kingston, Ontario | Canadian Wollastonite | UNDO Carbon

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The City of Kingston, Ontario, launched the Wollastonite Transportation Rebate for local farms in January 2025, following demonstration projects in late 2024. The policy was developed in partnership with Canadian Wollastonite, a local mining company, and UNDO Carbon, a carbon removal developer, to scale enhanced weathering deployment at a low cost to farmers and help expand the city's existing climate action framework to include carbon removal.

With an overall cap of $250,000 CAD, the program offers rebates directly from the City of Kingston of up to $5 CAD per tonne of wollastonite delivered, paid directly to farmers, covering roughly half of the total transportation costs. The feedstock, spreading, and measurement, monitoring, reporting, and verification (MMRV) are financed through the support of corporate buyers of carbon removal credits.

Funding Flow & Roles



Eligible farms must be located within the municipal boundary of Kingston. UNDO leads implementation, including quantification, soil measurement, and spreading operations. The mineral wollastonite is applied using standard lime-spreading equipment, enabling integration into existing farming practices. Participating farms also receive free soil pH testing to ensure the pH range of their fields meets UNDO's project deployment requirements.

No municipal, provincial, or national agency regulates the program. Instead, the City of Kingston relies on UNDO's data collection, transparency commitments, and submissions to third-party evaluators for verification. Kingston reports removals resulting from this rebate program in a ledger alongside emissions reduction efforts.

While some farmers are open to trialing wollastonite, others remain cautious, citing fatigue from an inundation of climate initiatives or lack of familiarity with



Photo credit: Canadian Wollastonite

mineral amendments. Lingering skepticism despite low costs underscores the critical importance of quantifying agronomic impacts. The program aims to achieve a 10% adoption rate across two million acres of land in the surrounding region in order to generate evidence of soil health benefits, such as yield increases. Demonstrating that the agronomic return on investment is both significant and quantifiable can strengthen stakeholder support and open new, resilient revenue streams.

Alongside the implementation of this program, Canadian Wollastonite and the City of Kingston are actively exploring expansion opportunities with neighbouring municipalities to replicate the transportation rebate structure. Canadian Wollastonite has also begun to fully electrify its mine and develop a solar generation facility to offset electricity demand through Ontario's net metering program, reducing the footprint of upstream emissions.

The Kingston Transportation Rebate serves as an early example of carbon removal integration into municipal-scale resource management policy, highlights the importance of continued work to demonstrate and quantify agronomic benefits, and illustrates how public-private partnerships can catalyze important learning and unlock new policy pathways to scale.

This case study was informed through correspondence with Bob Vasily, CEO of Canadian Wollastonite.