

Making the Most out of their Water

An emulsions manufacturer implements a water recirculation project to reduce water and energy use



The Project

Walker Emulsions is a North American manufacturer of specialized water-based products, serving a wide array of industries including road construction and resurfacing, wood and lumber processing, insulation and mass timber, food packaging, and automotive. With expertise in custom emulsion solutions, they partner closely with clients to develop tailored formulations that meet specific performance and application needs.

Water is one of the main resources Walker Emulsions uses for production, both as a raw material and as a coolant. Their Burlington facility saw an opportunity to make their water resources go further. By repurposing three tanks and adding piping to connect them, they could recirculate water as a coolant and then use the warmed water as an input for wax and asphalt production.



 **Burlington, ON**
 **Manufacturing**



*Funding for the 2024
Climate Action Microgrant was
generously provided by TD*

The Benefits



Reduced Energy Costs



Reduced Water Consumption

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The Results

The newly expanded water system is expected to save approximately 6,600 cubic meters of water per year, which makes up about 12.2% of the facility's 2023 water footprint.

By reusing water that has absorbed waste heat (when used as a coolant) in processes that require warm water, this project reduces Walker's water consumption and saves energy required to heat the water required for asphalt and wax emulsion production.



Manuel Garzon
Environmental
Manager

The support of **TD** and **Green Economy Canada** was instrumental in enhancing the financial viability of this project. Specifically, the 2024 Climate Action Microgrant covered 40% of the total project costs, helping to strengthen the business case and directly supporting Walker's commitment to 'Building a Sustainable Future, Together.'



Green Economy Canada's National Hub provides a cost-effective, practical, and hands-on approach to help organizations across Canada take action on climate change and build sustainability into their operations. We provide training, resources, and 1:1 support to help our members measure and reduce their carbon footprint while saving money, building their brand, and becoming the supplier and employer of choice. Join us in making business better, together. Contact us at info@greeneconomy.ca or visit our website at greeneconomy.ca to learn more.