CLEAN AIR CALCULATOR Industry Sneak Peek NOVEMBER 28, 2023

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Business Context > Market Plan

Social engagement - Foundation - customers, non-customers, employees

Residential, commercial and municipal clients want to understand the environmental impact of their urban green space.

Key factor when making a decision to buy landscape products and services.

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Business Context > Profession/trade - Public

The environmental horticulture sector's commitment to the future:

Connecting Plants and People

"To grow, nurture, and protect urban green spaces for the health and well-being of all".









Clean Air Calculator > Your New Tool

Easy to use mapping tool

Calculates the positive environmental impact of turf, trees and shrubs in a green space.

Use for both existing green spaces, and new landscape designs.











Clean Air Calculator > Development Partners

Representational Data Accuracy and Credibility Ensured:

Climate Adaptation Committee - Canadian Nursery Landscape Association (CNLA)

Dr. Eric Lyons, Director of the Guelph Turfgrass Institute - University of Guelph

Environmental Systems Research Institute (Esri)

Green Cities Foundation







Clean Air Calculator > Results

Calculations made:

Metric tonnes of Carbon (CO₂) sequestered (per year)

Cubic metres of Clean Air (O₂) produced (per year)











Clean Air Calculator > The Calculations

Calculations made, **plus values presented**, to make it easy for audiences to understand:

Metric tonnes of Carbon (CO₂) sequestered (per year) Offsets the CO₂ emissions created by the number of kilometres driven

Cubic tonnes of Clean Air (O₂) produced (per year) **Number of people who breathe the O₂ produced**



CALCULATOR







Clean Air Calculator > Disclaimer

Representational Data Accuracy and Credibility Disclaimer:

University of Guelph literature review formulas (see link below) and the values created are representational only and intentionally general.

Development of an Urban Turfgrass and Tree Carbon Calculator for Northern Temperate Climates

Variables such as mapping care, plant types, and weather and growing conditions, will affect the actual results compared to information presented.







Clean Air Calculator > When to Use

Effective communications tool for:

Residential, Commercial, Municipal projects

Concept designs or existing green spaces









Clean Air Calculator > Residential Example (West Vancouver)

NATIONAL AWARDS OF LANDSCAPE EXCELLENCE RESIDENTIAL CONSTRUCTION WINNER:

> FOSSIL LANDSCAPE CONSTRUCTION LTD











Clean Air Calculator > Commercial Example (Pillar and Post, NOTL)



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Clean Air Calculator > Municipal Example (Commissioners Park, Ottawa)

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Clean Air Calculator > How to Use

Residential backyard project recently completed example

(West Vancouver, BC)









Step 1: Find the location

Use the search bar to look up the project address.

Zoom in and centre to the desired resolution.









Step 2: Choose your land cover

There are three choices of land cover: **Lawns, Trees or Shrubs**.

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Green for Life!

Each one generates differing levels of environmental impact data.







Step 3: Define your space

Step 3A: Define your Shrub space (if applicable)

With just a few clicks, draw a shape on the map by placing points to create a polygon. Be as precise as you can, and when you're satisfied with the shape, simply double-click to finish.

Create multiple shrub spaces as needed.

Cumulative results for each polygon appears in the chart at the bottom.









Step 3B: Define your Lawn space (if applicable)

Draw a shape on the map by placing points to create a polygon. Be as precise as you can, and when you're satisfied with your shape, simply double-click to finish. Create multiple lawn spaces if applicable.

Cumulative results for each polygon appears in the chart at the bottom.

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Step 3C: Define your Tree space (if applicable)

Draw a shape on the map by placing points to create a polygon. Be as precise as you can, and when you're satisfied with your shape, simply double-click to finish. Create multiple tree spaces if applicable. Polygons can overlap.

Cumulative results for each polygon appears in the chart at the bottom.

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Step 4: Discover your Clean Air Results

Cumulative results appear in the chart at the bottom. See the positive impact plants make on the environment in your defined space:

33,172 m³ Clean Air Produced / year
31 People Impacted / year
13 tonnes Carbon Sequestered / year
70,846 km Driven Offset / year

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Step 5: Save Results

Saving your results will add this property's values to the Green Cities Foundation database









Clean Air Calculator > Share the Results

Share the results with your client - before starting the project or after the project is complete.

Commercial clients may wish to share the results with their stakeholders to demonstrate ESG (Environmental, Social, Corporate Governance).

Municipal clients may wish to communicate the results with residents.









Clean Air Calculator > Green Cities Foundation > #GreenMyCity

The not-for-profit **Green Cities Foundation** wants to reduce the effects of climate change to improve the quality of life in all Canadian cities.

Green Cities Foundation's **#GreenMyCity** program is a collaboration with the Canadian horticulture sector, donors and community volunteers to create urban green spaces across Canada.

Your projects and results will be highlighted on the Green Cities Foundation website.

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Clean Air Calculator > Share the Results

Measurements from individual projects will collectively produce metrics for CNLA to share with national, provincial and local governments, the media, businesses and public audiences.

Purpose is to demonstrate the environmental impact made by the Canadian horticulture sector.









Clean Air Calculator

https://gcfoundation.gardenconnect.com/

User: demo Password: demo



Clean Air Calculator > Launch

Trade Launch during winter 2024

Public Launch spring 2024

Cost to members: \$0

Need help?: Member support at Projects@GCFoundation.com





