



PARTNERS

Key funding partners for past projects have included:

- City of Toronto
- Environment Canada
- Great Lakes Sustainability Fund
- Independent Electricity System Operator
- Natural Resources Canada
- LDC Tomorrow Fund
- Ontario Ministry of Environment
- Region of York
- Region of Peel
- Toronto Atmospheric Fund



The Archetype Sustainable House

GET INVOLVED

Research Partnerships

Conduct research at one of the Living City Labs located on the Living City Campus. STEP oversees all research carried out at The Campus and will work with partners to ensure research objectives are met.

Funding Partnerships

Become a project funding partner to help achieve our shared objectives of advancing knowledge and spurring adoption of sustainable technologies.

In-kind Donations

Your in-kind product and/or service donation will be integrated into our Living City Labs, contributing to the design and construction of building plots and enhancement of research initiatives.

Newsletter Sign-up

Stay informed about all the latest STEP news, events and publications by signing up our newsletters at:
www.sustainabletechnologies.ca/wp/newsletters



If you are interested in getting involved through any of the engagement opportunities, please contact us at:

STEP@trca.on.ca | twitter.com/STELivingCity

FOSTERING SUSTAINABILITY THROUGH INNOVATION



 **Sustainable Technologies**
EVALUATION PROGRAM

www.sustainabletechnologies.ca



ABOUT STEP

The Sustainable Technologies Evaluation Program (STEP) provides the data, analytical tools and information needed to support broader adoption of sustainable technologies and practices within a Canadian context. Its main objectives are to:

- Monitor and evaluate clean water and low carbon technologies
- Assess implementation barriers and opportunities
- Develop supporting tools, guidelines and policies
- Promote broader use of effective technologies through research, education and advocacy

STEP operates several state-of-the-art Living City Labs, located on the Living City Campus, to facilitate research partnerships with industry and academia.

As part of the Environmental Technology Verification Program, STEP also conducts third party verification and testing of sustainable technologies.

CLEAN WATER

The water component of STEP is a partnership between Toronto and Region Conservation (TRCA), Credit Valley Conservation, the Lake Simcoe Region Conservation Authority, and Conservation Ontario. The following are key areas of focus.

Low Impact Development (LID)

LID stormwater practices help to protect water resources by promoting increased evapotranspiration, infiltration and groundwater recharge, and lower surface runoff volumes. STEP has evaluated several LID practices, and developed tools and guidelines to support their broader adoption.

Erosion and Sediment Control (ESC)

Practicing effective ESC on construction sites is crucial to protecting downstream receiving waters and aquatic habitats. STEP has evaluated both structural and non-structural ESC measures, yielding information that helps to inform policies, guidelines, and training curriculum.

Healthy Soils

Maintaining a healthy soil cover during construction projects is a highly effective way to manage stormwater and promote plant growth. STEP has evaluated best management practices for soils, and developed guidance on preserving and restoring healthy soils in urban areas.

Road Salt Management

Recognizing the importance of mitigating the impacts of road salt on aquatic life, soil, vegetation, and drinking water resources, STEP has been involved in evaluating alternative de-icing agents and helping to establish and implement best practices that reduce salt use.

LOW CARBON

The energy component of STEP is led by the Toronto and Region Conservation Authority. Key areas of focus include:

• Renewable Energy

Increased adoption of renewable energy technologies – like solar, wind and geothermal – is essential to reducing greenhouse gas emissions. STEP uses real-world data collection and technical expertise to address barriers facing these technologies, helping ensure they are commissioned, installed and operated effectively.

• Building Energy Efficiency

STEP partners with industry and academia to evaluate technologies and strategies that improve the energy efficiency of buildings.

• Smart Grid

STEP's smart grid research facility utilizes renewable energy generation, electrical storage capacity and residential electrical loads, alongside cutting-edge data monitoring and control infrastructure, to advance the development of smart and micro-grid technologies.



The Photovoltaic Field Test Site – one of STEP's Living City Labs located at the Living City Campus.