

Sustainable Transportation



Morrison Hershfield is a North American leader in sustainability for the built environment. Our advisory services have helped clients move forward from the awareness and commitment stage to the desired end state where tangible change is observed and built upon. Our engineering solutions have demonstrated how sustainability goals and imperatives can be successfully achieved. In developing sustainable solutions, we are cognizant of the reality that truly sustainable solutions must be environmentally sustainable as well as financially and socially sustainable. We are committed to helping clients understand their environmental challenges and to incorporate sustainability principles into their programs, policies and designs. Cities that embrace and pursue sustainable transportation will produce less pollution, have a higher quality of life and a smaller ecological footprint. Most importantly, they will make quantum leaps in their energy security and reduce the strain on their health system, making them more resilient and competitive.

Sustainable transportation services include:

- **Goal setting and monitoring**
- **Policy and program development**
- **Planning for sustainable communities**
- **Quantification of greenhouse gas emissions and criteria air contaminants**
- **Financial and economic implications on public and private entities**
- **Transportation demand management**
- **Planning for and accommodation of alternative modes of transport**



Critical Review of Environmental Assessment Processes



Employer Based Transportation Demand Management Toolkit



Estimating the Welfare Costs of Reducing Greenhouse Gas Emissions



Implications of Adopting Greenhouse Gas Reduction Measures



Primer on Transportation and Air Quality



Critical Review of Environmental Assessment (EA) Processes

Over time, major highway projects can have a significant impact on land use and travel activity - impacts that ultimately effect air quality and human health. This study undertaken for Health Canada represents the first phase of a comprehensive review of the EA process as applied to transportation projects in Canada. Its intent was to review the process used to assess transportation projects and identify opportunities for improvement, with particular emphasis on how the process can be enhanced to ensure that sustainability considerations are appropriately accounted for from start to finish.



Estimating the Welfare Costs of Reducing Greenhouse Gas Emissions

This study was initiated by Transport Canada to examine the various welfare effects associated with measures to reduce greenhouse gas (GHG) emissions in the transportation sector. We identified and computed the various welfare effects associated with measures to reduce greenhouse gas emissions in the transportation sector. The effects examined include travel time and safety, as well as capital, operating, and maintenance costs. Our assessment affords a more comprehensive accounting of costs and benefits than had previously been undertaken at the national level.

