

APP Cement Task Force's Project Final Report Form

Project Number: CMT-06-04	Title of Project: Lifecycle Evaluation of Concrete Building Construction as a Strategy for Sustainable Cities								
Lead Partner Country:									
Participating Partner Countries and Organizations: Canada									
Project Location: Lawrence Berkeley National Laboratory, Berkeley, CA USA									
<table style="width: 100%; border: none;"> <tr> <td colspan="2" style="padding: 5px;">Project Manager Information</td> </tr> <tr> <td style="width: 50%; padding: 5px;">Name: Andy O'Hare</td> <td style="width: 50%; padding: 5px;">Phone: (202) 408-9494</td> </tr> <tr> <td style="padding: 5px;">Organization: Portland Cement Association</td> <td style="padding: 5px;">Fax: (202) 408-0877</td> </tr> <tr> <td style="padding: 5px;">Address: 500 New Jersey Avenue, NW Washington,, DC 20001</td> <td style="padding: 5px;">Email: aohare@cement.org</td> </tr> </table>		Project Manager Information		Name: Andy O'Hare	Phone: (202) 408-9494	Organization: Portland Cement Association	Fax: (202) 408-0877	Address: 500 New Jersey Avenue, NW Washington,, DC 20001	Email: aohare@cement.org
Project Manager Information									
Name: Andy O'Hare	Phone: (202) 408-9494								
Organization: Portland Cement Association	Fax: (202) 408-0877								
Address: 500 New Jersey Avenue, NW Washington,, DC 20001	Email: aohare@cement.org								
Project Start Date: January 2008	Proposed Project End Date: First Phase, March 2010; Second Phase, March 2011								
<p>Project Description: An assessment of the environmental lifecycle of concrete pavements and structures with an emphasis on their long term energy efficiency and ability to minimize greenhouse gas emissions. The objective of the project is to prepare models, populated with cement and concrete lifecycle data, which may be used to predict the energy performance and greenhouse gas emission profile of concrete pavements and structures. The primary focus of the analysis is on low rise residential and commercial structures and concrete pavements.</p>									
<p>Project Status and Outcomes:</p> <p>Task 1: Literature Review: Summer 2008 (structures), Summer 2009 (pavements) Task 2: Collection of Lifecycle Data and Data Synthesis: Summer 2009 Task 3: Development of Lifecycle Inventory and Predictive Model: Fall/Winter 2009/2010 Task 4: Peer Review Model: Fourth Quarter 2010 Task 5: Develop Model Application Case Studies: Fourth Quarter 2010/First Quarter 2011 Task 6: Peer Review Case Studies: First Quarter 2011 Task 7: Prepare Project Report: First Quarter 2011</p> <p>The literature review addressing pavements was completed and published in March 2010. The findings were presented at the March 2010 APP cement task force meeting in Vancouver, where copies of the study were shared with all cement task force participants.</p>									
<p>Future Direction and Recommendation: The concrete structure lifecycle assessment (LCA) and associated case studies will be completed in the spring of 2011. This work has now been expanded to include a complete concrete pavement LCA by the Athena Institute (an affiliated part of this APP project being coordinated by the Cement Association of Canada and the Canadian Government). In addition, the Portland Cement Association in 2010 created a Concrete Sustainability Hub at the Massachusetts Institute of Technology (MIT). MIT is in the process of complete LCAs on concrete pavements and concrete structures.</p>									

Other Information and Reference:

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Project Number: CMT- 06-04 sub. 2	Title of Project: Life Cycle Analysis and Costing Tools for Concrete Highways
Lead Partner Country: Canada	
Participating Partner Countries and Organizations: China	
Project Location: China	
Project Manager Information	
Name: Wayne Trusty	Phone: (613) 269-3795
Organization: Athena	Fax: (613) 269-3796
Address: 629 St. Lawrence St., Merrickville, Ontario	Email: wayne.trusty@athenasmi.org
Project Start Date: July 1, 2009	Proposed Project End Date: March 31, 2011
Project Described :	
<p>To assess the applicability, and facilitate the transfer, of technologies and tools that will help improve the sustainability of relevant above- and below-ground infrastructure. The geographic focus has been on China. The infrastructure focus has been on highways.</p>	
Project Status and Outcome:	
<p>Critical review of existing literature and research – Completed</p> <p>Initial goal and scope document on LCA/LCC tools for highways prepared - Completed</p> <p>Updating existing Canadian data - Completed</p> <p>Development of a prototype tool using Canadian data that can be used in other countries by replacing the Canadian data with data applicable to other countries - Ongoing</p>	
Future Direction and Recommendation:	
<p>This project will result in a prototype tool. In order for the tool to become useful in other countries, follow-up testing with data specific to that country, and debugging will be necessary.</p>	
Other Information and Reference:	

