



Considering Embodied Energy in the Application of the National Building Code (NBC)

<https://research.thinkwood.com/en/permalink/catalogue2328>

Organization: Université de Sherbrooke

Research Status: In Progress

Notes: Project contact is Ben Amor at Université de Sherbrooke

Summary:

Although lifecycle analysis approaches provide a reliable reading of the importance of the embodied energy of buildings, the tool is inaccessible for evaluation in a normative framework. The purpose of the project is to establish prescriptive directives linking the role of Transition Énergie Québec (TEQ) with the Régie du bâtiment du Québec (RBQ), which must ensure the quality of the work and the building safety. Similar to Part 9 of the NBC, it would be desirable to establish prescriptive rules based on know-how allowing a reasonable consideration of gray energy issues. In order to converge towards this approach, a number of tools will be considered. The various life cycle analysis methods (attributive, consequential, dynamic) (Astudillo et al., 2017) will be used, as well as more simplified approaches such as streamlined LCA (Arena et al., 2013, BellonMaurel et al. al., 2015) or simplified calculators, such as the carbon calculator that is currently being developed by Cecobois. The project will consider building carbon neutral objectives.