



Life Cycle Assessment of Katterra's Cross-Laminated Timber (CLT) and Catalyst Building: Final Report

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Summary:

Katterra has developed its own cross-laminated timber (CLT) manufacturing facility in Spokane Valley, Washington. This 25,100 m² (270,000 ft²) factory is the largest CLT manufacturing facility in the world, and is capable of producing approximately 187,000 m³ of CLT per year. Katterra has also established a vertically integrated supply chain to provide the wood for the CLT factory. Production started in summer of 2019.

Katterra commissioned the Carbon Leadership Forum (CLF) and Center for International Trade in Forest Products (CINTRAFOR) at the University of Washington to analyze the environmental impacts of its CLT as well as the Catalyst Building in Spokane, Washington. The Catalyst is a 15,690 m² (168,800 ft²), five-story office building that makes extensive use of CLT as a structural and design element. Jointly developed by Avista and McKinstry, Katterra largely designed and constructed the building, and used CLT produced by Katterra's new factory. Performing a life cycle assessment (LCA) on Katterra's CLT will allow Katterra to explore opportunities for environmental impact reduction along their supply chain and improve their CLT production efficiency. Performing an LCA on the Catalyst Building will enable Katterra to better understand life cycle environmental impacts of mass timber buildings and identify opportunities to optimize environmental performance of mid-rise CLT structures.

The goal, scope, methodology, and results of this analysis are detailed in this report.

Online Access: Free

Resource Link

<https://assets2.katerra.com/wp-content/uploads/2020/02/25111837/Katerra-LCA-Final-Report-2020-update.pdf> 