

SETBACKS

Shipping delays pushed the arrival of the EcoPower modules and hindered the project team's ability to assemble a prototype battery before the end of the project. In efforts to make the most out of the project, the team agreed to designing the battery pack's cooling plate, which prevents overheating, with the time that was allocated to assembling and testing the prototype pack.



Cooling Plate - Interior



Cooling Plate Exterior and Fasteners.

OUTCOME

Even though a fully assembled battery pack was not the result of the project; CanEV, UVic CTRT, and Rainhouse all gained valuable insight and experience into the battery market. We all learned about new and used batteries, certification requirements, and the technical and market challenges associated with battery manufacturing for different applications. Through modeling, testing and prototyping, all parties made meaningful progress towards bringing locally manufactured battery packs to market.

This project proved why it is important to develop this ability locally. The supply chain issues we faced with producing one prototype battery pack clearly show why we need to grow this market in Canada, and more specifically in BC. All possible suppliers we found in our research are located in Asia, and currently, there is no battery manufacturing facility that deals with developing the chemistry and battery assembly anywhere in North America.

We are honored to see the provincial government's commitment to innovation and technology development on the West Coast and appreciate having the opportunity to explore and grow our knowledge and experience in battery manufacturing thanks to their funding initiatives.

