

University research project to tackle growing need for cold climate greenhouses

Solar company to work with university to perfect cold climate greenhouse as food supplies increasingly threatened

EDMONTON, ALBERTA, CANADA, December 16, 2019 / EINPresswire.com/ -- Edmonton, Alberta, December 16, 2019 – The effects of climate change are increasingly impacting global food supply chains and forcing a re-evaluation of how individuals and communities access food, now and in the future.

A collaborative project between the University of Alberta researchers and [Exceed Solar](#), an Edmonton based renewable energy company, is set out to study and perfect cold climate greenhouses in an effort to increase locally grown food supplies in colder climates, a trend that continues to evolve as food prices continue to climb as a result of shipping and storage costs, coupled with climate change impact on food growing and supply regions.



Solar powered greenhouse with cutting edge clean technology



The partnership project, which includes building and installing a solar powered off-grid greenhouse at the University of Alberta Students' Union's community garden at the U of A's East Campus Village, involves researchers in mechanical engineering, permaculture, Civil Engineering, Sustain SU: The Student Sustainability Service, and the Renewable Energy Design Group. The focus of the research will be on new technologies designed to improve the performance of greenhouses in the production of food, and testing advanced food growing methods using permaculture.

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Cofounder of Exceed Solar. “Our approach is to test new technologies in solar energy, performance monitoring, heating systems, and food production with the overall objective of bringing these technologies to market for a practical purpose.”

The project is set to get underway in the spring/summer of 2020 with the construction and

implementation of Exceed Solar's sustainable greenhouse, powered by solar energy and includes water retrieval and retention systems. The 120 square foot greenhouse is designed for residential and community use, but can be scaled up to accommodate industrial scale structures. The new greenhouse will be instrumented with the help of engineering researchers to provide a continuous assessment of its performance. In this way, Exceed Solar's sustainable greenhouse will serve as a testbed to research new technologies and to train University of Alberta students in applying sustainable principles.

"Renewable energy design is driven by this project as it will not only provide students the education of solar energy and sustainable permaculture but also serve as a foundation of research for professors. We are very excited to contribute to this project." said Larry Zhong, President of Renewable Energy Design Group.

About Exceed Solar

Exceed Solar creates sustainable, scalable living spaces and community solutions by leveraging renewable energy and smart technologies. Branded under the name "[Sol Spaces](#)," Exceed's modern living spaces are the next generation of housing solutions, incorporating scalability, sustainability and renewable energy to become the most efficient living spaces available on the market.

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