

## EQACC SOLAR

# Ubc solar power system



## Overview

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What is UBC solar?

UBC Solar is a student-led engineering design team dedicated to designing, manufacturing, and racing solar-powered cars. We compete in the Formula Sun Grand Prix and American Solar Challenge, where teams from across North America race over 2,000 miles across the United States while harnessing energy only from the sun.

Why should you join UBC solar?

At UBC Solar, ECE students are presented with a plethora of learning opportunities. Our electrical teams are what makes our cars move – members gain experience with industry standard tools and skills which are directly translatable to their future careers.

What skills does UBC solar offer?

Skills include PCB Design using Altium, software/firmware construction, power electronics design, and more! UBC Solar is a student-led engineering design team dedicated to designing, manufacturing, and racing solar-powered cars.

What is UBC doing to accelerate solar energy deployment?

Our multidisciplinary team of principal investigators from UBC's Vancouver and Okanagan campuses are collaborating to advance our understanding of harnessing, converting, storing and using solar energy with the aim to accelerate vast solar energy deployment.

## Ubc solar power system

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### Solar Power

"Our Solar Grid-Tie System with Battery Backup" PowerPoint of my presentation to the Bowen Island Solar Power Forum, 4 Apr. 2016. PDF file (2.9 MB)

### Energy Systems

Energy Systems We are dedicated to enhancing the understanding of the control, production, transmission and consumption of electrical energy by developing models, devices and ...



### About

The Solar Energy for Net Zero research cluster is the first of its kind in British Columbia, dedicated to advancing solar energy technologies to support the global transition to a net-zero economy.

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## British Columbia Energy Market Profile

British Columbia is given a #1 ranking in terms of solar acceptability and utility adoption, however raw solar potential receives a 'Grade D' from Solar Panel Power Canada, with the average ...



### **UBC Social, Ecological, Economic Development Studies ...**

Through the economic analysis, the cost of installing a solar energy power system can be retrieved in 42 years in comparison to BC Hydro's electricity price. Although the system ...

### **Solar Energy for Net Zero Research Excellence Cluster**

The Solar Energy for Net Zero Research Excellence Cluster is the first research group of its kind in British Columbia dedicated to solar energy research, from fundamental science to systems ...



### **UBC Solar**

Hey! I'm Aarjav, a 4th-year Computer Engineering student and the Electrical Director at Solar. After a tough competition cycle, our team came out stronger and more ...



## Solar Array: Clean Connected and Safe ...

The Solar Array project will provide power to the Transportation Testbed, and includes the design and installation of an array of photovoltaic panels on a ...



## UBC Power Group

UBC Power Group is studying the effects distributed generation will have on the the utility system. Power Electronics Solar ...

## Systems

Our research will examine electric power systems to identify and address deficiencies that impede the integration of solar energy and hinder universal electricity access. We will conduct ...



## EECE 555

EECE 555 Renewable and Efficient Electric Power Systems The goal of this course is to explore the most common renewable energy generation technologies and examine their role in the ...

## Solar

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## EECE 571D

Power Electronics for Modern Power Systems How does energy from wind turbines or solar panels reach your home? How can we build off-grid energy systems to power remote ...



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## UBC Power Group

UBC Power Group is studying the effects distributed generation will have on the the utility system. Power Electronics Solar energy study



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## Solar Energy for Net Zero , Graduate and Postdoctoral Studies

The Solar Energy Cluster is collaborating to develop solutions and reduce greenhouse gas emissions by working to identify low-cost materials for high-volume ...

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## Solar Array: Clean Connected and Safe Transportation Testbed

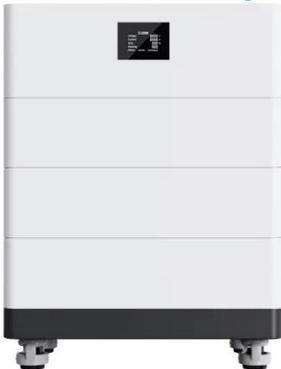
The Solar Array project will provide power to the Transportation Testbed, and includes the design and installation of an array of photovoltaic panels on a

metal support structure and connection

...



### High Voltage Solar Battery



### UBC Social, Ecological, Economic Development Studies ...

Through the economic analysis, the cost of installing a solar energy power system can be retrieved in 42 years in comparison to BC Hydro's electricity price. Although the system ...

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- LIQUID/AIR COOLING
- INTELLIGENT INTEGRATION
- PROTECTION IP54/IP55
- BATTERY /6000 CYCLES



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