

OUR CLIENT

Our client, Robin Frojen, is a renowned member of the Oregon State University Food Science program serving as the Creamery & Cheese Plant Manager. Robin now also runs the Beaver Classic Food Truck where she sells food products made from her department.



THE PROBLEM

- Power generation is not sustainably-derived
- Appliances cannot run while driving
- Driving radius is limited as a result



Oregon State
University

SUSTAINABLE FOOD TRUCK DESIGN: BEAVER CLASSIC



THE SOLUTION

We have designed a battery bank & inverter system coupled with an alternator charging system to provide power to the onboard kitchen appliances and accessories. Robin will now be able to run power to her refrigerator and freezer while driving, while also taking a step to the future where this truck can run on entirely sustainable power for an entire day's work.

The Team

Zach Culp, Brendan Dexter,
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Parker Williams, Antony Yatskov

In Collaboration With



AM SOLAR

SYSTEM DETAILS

- (2) LifeBlue 12V 300Ah LiFePO4 batteries connected in series
- Total Capacity: 7680Wh
- Victron Quattro 5000VA Inverter
- Voltage Output: 120V AC
- 24V Dual 15A Orion Alternator Charging Kit
- Deliver 30A at 24V
- Power: 720W

