**About Running Fox Solar**

Startup solar utility company aiming to provide electric vehicle chargestations.

Central location: all traffic has to pass traveling to Chincoteague Island, DelMarVa Peninsula.

Opportunity:
- Consult on the formation of a green energy start-up
- Strict budget and time deadline
- Reduce range anxiety - no level 2 chargers within 12 sq mile radius
- Implement EV charging station
- Encourage commercial and agricultural solar development

**RESULTS**

Energy Source 1:
- (Optimally: 800 kW electricity)

Energy Source 2:
- (Used when solar not available)

**LOCAL STRIP MALL**

700 Roof panels
- (Flat on roof)

300 Ground panels
- (In backyard of mall)

DC Fast Chargers
- (80% battery in approx. 1 hr)

Level 2 Chargers
- (Free for customers)

**PROJECT APPROACH**

- **Optimal Charger Placement**
  - 100 ft from road
  - Pull through access for trailers
  - 2 chargers wanted

- **Grant Portfolio**
  - Timeline dependent
  - Applicable to green energy and rural area categories

- **EV App Connection**
  - Ability to show up on all charging networks
  - Easy accessibility

- **Cost Model Development**
  - $0.91/W solar panels
  - $1.2 million budget
  - EV use prediction

**IMPACTS**

- CO2 emissions eliminated annually from solar production (based on average VA electricity mix)
- 165,000 lbs

**DELIBERABLES**

$11,000 Total Monthly Income
- from 3 EV average charging customers per day charged at a $0.60/kWh rate and a $7,000 utility payment from mall tenant

$840,000
- 30% tax incentive + maximum grant money

**Faculty Advisor**
Dr. Charlie Klauer

**Company Contact**
Jonathan Gorbach

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