

Photovoltaic Solutions: *Shark Tank* Style

Project Requirements:

You will be assigned to a group of three students. As a group you will brainstorm a design solution that will incorporate solar technology as a means to help eliminate fossil fuel usage in the transportation sector. You will then create a presentation with visuals of your design along with calculations showing how well your design might work.

You will present your design solution to a panel of three or more judges (me included) who will evaluate your design based on the criteria found in the accompanying rubric. Your goal is not only to come up with a plausible solution, but also to “sell” your idea to the panel.

All of the following are acceptable for your presentation:

- Tri-fold poster paper
- Computer aided presentation media
- Video
- Other (ask your teacher)

Grading:

You and your group will be scored according to the following criteria:

- Data and calculations
- Presentation quality
- Viability/practicality of design
- Quality of visuals

Criteria	4	3	2	1
Data and calculations	Design solution is thoroughly supported by calculations and other data found during research. All units are included. Calculations extend to national and global levels	Design solution is well supported by calculations and other data found during research. All units are included.	Design solution is somewhat supported by calculations and other data found during research. Some of the results are not entirely clear	Solution is based on faulty or incorrect data or calculations.

Student Handout #8: Project Guidelines

<p>Presentation Quality</p>	<p>All members actively contribute to presentation. The group's idea is effectively and clearly communicated. Presentation is <u>engaging</u> and informative and group members are able to answer panel questions</p>	<p>All members actively contribute to presentation. The group's idea is effectively and clearly communicated. Presentation is informative and group members are able to answer panel questions</p>	<p>One or more group members do not actively participate in the presentation. Presentation is lacking one or more important facts or students were unable to answer panel questions.</p>	<p>Presentation is lacking in more than two areas outlined for a score of "3"</p>
<p>Viability/Practicality of design</p>	<p>The design solution could easily be integrated using current technology and without overly elevating costs. Production could (in theory) begin almost immediately and would be available to most consumers</p>	<p>The design solution could easily be integrated using current technology and without overly elevating costs.</p>	<p>Solution is possible, but not practical or scalable at the national or global level.</p>	<p>Solution is not at all realistic.</p>
<p>Quality of visuals</p>	<p>Design solution is accurately portrayed in visual form. The visual shows thought and aesthetic appeal. Visual increases the appeal of the overall presentation and increases the likelihood of sale.</p>	<p>Design solution is accurately portrayed in visual form. The visual shows thought and aesthetic appeal.</p>	<p>Visuals are lacking in appeal or effort. Visual is illustrative of overall idea, but does not do your idea justice</p>	<p>Just plain lame.</p>