

2020 SPELLMAN HIGH VOLTAGE ELECTRONICS CLEAN TECH COMPETITION
“REDUCING INDIVIDUAL IMPACTS”
FINALIST COMPETITION SCORING SHEET

TOTAL SCORE: _____ /100 TEAM NAME/#: _____ JUDGE’S NAME: _____

THANK YOU FOR SERVING AS A JUDGE FOR THE
2020 SPELLMAN HIGH VOLTAGE ELECTRONICS CLEAN TECH COMPETITION.

- Please note that point values for each category may differ, so be sure to follow the sections of the rubric carefully.
- Partial credit for any criteria may be given, provided it is in the form of an integral number and not higher than the highest point value listed for that category.
- We encourage you to make notes in the margins, blank spaces, or designated “Notes” areas as the students are presenting.
- To calculate the final score, please add your scores for each category and record the sum in the “Total Score” fields at beginning and end of this document.

Notes:

| | 10 points | 6 points | 4 points | 0 points |
|--|---|--|---|---|
| DESCRIPTION OF ASSIGNED PROBLEM Judge's Score: ____/10 | Clear, detailed description of the problem and the need for the innovation is provided. Addresses a specific problem including the origins of the problem and the range of its effects. | Somewhat clear description of the problem is provided. Discusses the problem(s) with buildings, materials or other related problems but may not address the causes or impact sufficiently. | Mentions a problem and/or cause with little detail or support. States an issue that may be the result of problem(s) with buildings, materials or other related problems but is not realistic or accurate. | Zero points will be awarded if the description of the problem(s) with buildings, materials or other related problems or the need for innovation is not present. |

| | 15 points | 8 points | 0 points |
|---|--|--|--|
| PROTOTYPE DESIGN Judge's Score: ____/15 | Prototype design is economically feasible, realistically workable by intended users; sufficiently addresses the problem the team chose to pursue, and is powered with clean energy technology. | Prototype design fulfills only some of the aforementioned criteria, or all criteria are touched upon but not sufficiently or completely. | Prototype design lacks some of the necessary criteria or covers them very weakly or incorrectly, or the prototype is not powered with clean energy technology. |

| | 15 points | 8 points | 0 points |
|---|--|---|---|
| PROTOTYPE FUNCTION Judge's Score: ____/15 | Prototype functions properly and safely, is relevant to the needs of the intended user, and considerations have been made for performance under conditions of use. | Prototype functions but its efficiency could be improved, may not consider all the needs of its intended user, or would not function as expected under realistic conditions of use. | Prototype does not function as intended, does not address needs of the user, and could not function at all under realistic conditions of use. |

| | 15 points | 10 points | 5 points | 0 points |
|---|--|---|---|--|
| <p>LIVE PRESENTATION</p> <p>Judge's Score:</p> <p>____/15</p> | Team is well spoken, presentation is organized and well thought out, all members appear knowledgeable about all aspects of their project, and questions from judges are answered thoroughly. | Team is organized and presentation is done well, attempt to answer questions from judges but lack ability to expand fully on their ideas when prompted. | Presentation is just satisfactory, and team is unable to elaborate or answer questions from judges. | Team is not prepared with materials and fails to answer questions from judges. |

| | 10 points | 6 points | 4 points | 0 points |
|--|--|--|---|---|
| <p>SUPPORTING PRESENTATION DATA</p> <p>Judge's Score:</p> <p>____/10</p> | Supportive materials (which may include charts, diagrams, tables, graphs, slideshow, etc.) are presented professionally and in such a way as to enhance understanding of the team's research and design process, and function of their innovation. | Supportive materials are used and are accurate, but lack significant contribution to the enhancement of understanding. | Some supportive materials are used, but may be unclear, inaccurate, or do not help to enhance presentation. | No supportive materials (charts, diagrams, tables, graphs, slideshow, etc.) are used to enhance presentation. |

| | 10 points | 5 points | 0 points |
|--|--|--|--|
| ORIGINALITY Judge's Score: ____/10 | Originality of design is apparent or explained by the team, or clearly original and significant improvements are made on an existing idea. | Project may have some original aspects but they are not clearly defined, or original improvements on an existing design are not significant. | Project is not an original idea, or does not improve on an existing idea in original ways. |

| | 5 points | 2 points | 0 points |
|--|--|---|---|
| REFERENCES Judge's Score: ____/5 | References are made in presentation and/or a separate reference sheet is provided which includes references for research on the problem and references used in development and/or documentation of the original idea are provided. | Some references are made but are incomplete or unclear. | No references are provided in any format. |

| | 10 points | 6 points | 4 points | 0 points |
|---|--|--|--|--|
| RESULTS AND CONCLUSION Judge's Score: ____/10 | Team gives clear indication of how successfully the innovation performs its function, including thorough data from experimentation. Offers suggestions for improvements or the next step towards widespread use. | Team gives clear indication of how successfully the innovation performs including some data, and is mostly accurate. Attempts to offer suggestions for improvements or preliminary plans for the future. | Team attempts to address success of innovation but results appear flawed or the team's ideas for future widespread implementation are unrealistic. | Team does not address the success of their innovation and fails to address future plans or improvements. |

0 – 10 points *These points cannot be awarded until all teams have presented.

**JUDGE'S
DISCRETION**

What makes this project stand out above others?

Notes:

Judge's Score:

____/10