

ELECTRIC & RENEWABLE ENERGY

Dept. EM

- 1. An exhibitor may enter up to four articles in this division.**
- 2. Articles that have been in use should be cleaned for exhibit.**
- 3.** A sheet of operating instructions must be furnished for any exhibit, which is not self-explanatory.
- 4.** Projects must be operable using only 110 or 120V AC or battery power. If battery power is required, batteries must be furnished.
- 5.** Any project with a complexity of size or electronics must have (a) instructions for assembly and use and (b) equipment available at the time of judging for actual testing of the exhibit.
- 6. No hand dipped solder may be used on exhibits.**
- 7.** Each exhibit must have a scorecard completed and attached securely. Each scorecard is available from the Extension Office or noted below.
- 8.** 4-H members enrolled in 4-H Electric & Ren. Energy for updated County and State Fair guidelines please contact the Extension office or <https://www.kansas4-h.org/projects/engineering-technology/electric-renewable-energy/>.

ALTERNATIVE ENERGY

(A form of energy derived from a natural source, such as the sun, geothermal, wind, tides, or waves)

All exhibits in this division are limited in size to standard, tri-fold, display boards (36" X 48") and items may not extend beyond 12" from the back board. All displays must be self-standing.

1308 - EDUCATIONAL DISPLAY - Create an exhibit that addresses a focused topic related to power generated from a renewable energy source. The purpose of the exhibit is to inform and create awareness.

1309 - EXPERIMENT - Display an experiment addressing a problem or question related to power generated from a renewable energy source. Include hypothesis, background research, variables, control, data, findings, conclusions and recommendations for future study.

A Champion and Reserve Champion will be selected in each class as applicable.

Champion and Reserve Champion from these classes will be combined with other Engineering & Tech

Champions to determine an overall Grand Champion and Reserve Grand Champion.