

# Trial/Pilot Event

Contact the organizers of your tournament to find out what trial/pilot events will be held.

## ENERGY PARK

**DESCRIPTION:** The objective of this event is to design a renewable energy-park to supply a sustainable renewable energy supply. There are many ways to provide a sustainable supply of energy to replace energy now supplied by fossil or nuclear fuel. The team is to develop a means of supplying renewable energy. Write a report about their means of providing a sustainable supply of energy. Build a model of the sustainable energy-park showing the essential elements. Give a verbal report telling about how their energy-park works.

**THE COMPETITION:** Up to 3 Students **Time:** 30 minutes

### Materials:

- All materials are to be provided by the student.
- The elements of the project model need not be functional but the shape of the element should represent the shape and form of the real element.
- Each element of the model should be painted and labeled to represent its function.
- The model is to be built on a platform that does not exceed 2 foot by 2-foot square in space and one foot in height.
- The scale may be any necessary to demonstrate the idea within the space limits.

### Construction:

- All construction on the model is to be completed prior to the tournament.
- The student must perform all work in the designing and building the model.

### At State Competition:

- All projects are to be impounded by the event supervisor prior to the start of completion.
- Report written by the student describing the project is to be submitted with the project and is to include an explanation of how the project works. Not to exceed 2-4 pages typed-and doubled space 12pt.

### Presentation:

Each team will make a short verbal explanation of how their idea works.

### Scoring:

1. 25% The idea
2. 25% The model
3. 25% The written report
4. 25% The verbal explanation

Suggested elements of a renewable energy-park:

Solar cells, windmills, Stirling solar generators, hydroelectric generators, electrolyzes, fuel cells, pyrolysis furnaces, solar concentrators, biological processing equipment.