

2016 Green Dream Home High School Competition 7th Regional Conference on Island Sustainability: Islanded Communities

Competition Details: Overview, Aim, Judging Criteria, Rules and Regulations

Overview:

The University of Guam's Center for Island Sustainability is requesting for the participation of Guam Public and Private High Schools in the <u>2016 Green Dream Home High School Competition</u>. The models will be showcased at the **7TH Regional Conference on Island Sustainability** in April 2016.

This competition will consist of students' planning, designing (drawing) and building their modeled homes to incorporate sustainable systems, technologies and designs to suit Island Communities in our region. These models will serve as tools in educating and raising awareness about Island Sustainability at a Highschool academic level.

Students and advisors are encouraged to conduct research about appropriate sustainable technologies, systems and designs that can be incorporated in homes on Guam and the entire Western Pacific Region. Students must integrate these ideas into real models that they will build themselves.

Aim:

The Center for Island Sustainability will be looking at certain aspects of students' models that will incorporate sustainable ideas and concepts. Some of the main components from student's models that judges will focus on are:

- A) Energy Production/ Renewable Energy Systems (solar, wind, etc...)
- B) Energy Efficiency and Independence from Cooling/Heating (mechanical) Systems
- C) Home Design and Orientation (Passive Solar Design)
- D) Food Production/ Sustainable Garden
- E) Landscape
- F) Water Collection/Water Catchment Systems
- G) Composting and Recycling Stations
- H) Other Sustainable Ideas Suitable for Island Communities

It is not mandatory to utilize all design components listed above. However, score considerations will be determined on how design components are utilized and overall feasibility is replicating student models in real life. In addition, the more design components incorporated on your models/drawings, the more points you or your team could potentially gain.





Rules and Regulations

STUDENTS BUILDING THEIR MODELS

- The board in which your model home will rest on cannot exceed 2 ½ x 2 ½ feet.
- Your model home cannot exceed the height of 1 foot per story.
- Students are not allowed to use pre-fabricated model homes (must build your own structure). Students are encouraged to use recycled or reusable materials (i.e. cardboard, wood, foam, etc.)
- Home components such as windows, doors, tables, and household appliances can be obtained from manufactured models.
- Students incorporating a sustainable garden may use various materials to represent plants and trees.
- Any unrealistic additions to your model may result in a loss of points.
- Points may be given for models that consist of moving parts and other realistic appeals that demonstrate sustainable technologies, applications, ideas, etc.

BLUEPRINTS/DRAWINGS.

- Students must provide drawings of their modeled home (at least top view).
- Blueprints are encouraged but not required.
- Students must use an 11"x17" size paper in which they will draw their model.
- Drawing the top view of a house should include layout of rooms and home components.
- Drawings should be in three dimensions, supporting your homes' realistic look.
- Ideas from other home designs (on the web, books, magazines, etc.) can be utilized, however, fully incorporating an existing homes' structure and design is prohibited.
- Drawings can be submitted with a pencil finish; however, students are encouraged to turn in final drawings in ink (color is optional).
- Students must label the sustainable components incorporated in their drawings.

TEAMS

- **ONLY STUDENTS** are allowed to work on the models or drawings. Advisors, parents, and/or non-students can however, give advice and ideas pertaining to the student(s) modeled homes.
- Participants can range from a single student to a maximum of 15 students per group. However, only 5 representatives (and 1 adviser) from each winning team will be allowed free access to the 7th Annual Island Sustainability Conference to be held in April 2016.
- A maximum of <u>two (2) models per school</u> can be represented in this competition. If more than two (2) models from a single school would like to participate, the school can hold an in-house competition to determine which two (2) teams will be represented in this competition.
- **Deadline** to confirm participation for the contest is on **Friday, January 29**, **2016** by **5:00pm**.





JUDGING CRITERIA:

The following are criteria's in which judges will score your model homes:

- 1) Implementation of Sustainable Technologies, Systems and Ideas (30pts)
- 2) Realistic Appeal (15pts)
- 3) Creativity (15pts)
- 4) Neatness (10pts)
- 5) One page (minimum) report of your model home; (20 points)
- ✓ What makes your model or drawing sustainable for Island Communities?
- ✓ Describe the various sustainable components found in your modeled home and how it will benefit you, the community and the environment?
- ✓ Report must be in times new roman, font size 12, and double spaced.
- 6) Presentation (10pts)

Total of 100 points possible

PRIZES

Prizes have not yet been identified for the 2016 competition. Schools will be notified as soon as prizes have been identified. There will be...

- -1st Place
- -2nd Place
- -3rd Place
- -Viewer's Choice Award

For more information, please contact Elvie Tyler at elvie.tyler8@gmail.com.

