



ARCH 3691
2013

Advanced Design and Building Information Modeling February

Your Name:	Anil K. Dipu
Name of Project:	Flex House, Team Florida
Preference:	“Eco-Sustainable”
Use of Passive Solar Strategies	
Solar Passive Strategies used in this house were glazing and ventilation on the exterior side of the house. Also incorporating airflow from underneath the house and through roof ventilation creates a cool environment while sustaining aids temperature control from the exterior part of the house into the interior space. There are also Cypress louvers that control the amount of sunlight entering the building.	
Use of Sustainable strategies-	
Several sustainable strategies are Solar Paneling, Glazing, Cypress louver system, and Eco friendly material use.	
Use of Technology	
Sustainable innovation and use of technology include Diagnostics Software which monitors the use for appliances within the building of the house. The system can monitor appliances such as for temperature, power, and occupancy scheduling. Team Florida also used energy simulation software and “smart” appliances to reduce shock and shortage while increasing safety and overall comfort for daily routines. LED lighting with Fluorescent is used at night when the sunlight is not available.	



Use of materials

The material of wood, concrete, glass, and other Eco-Friendly materials were decided upon attributes of: Durability, Recyclability/content, Energy Efficiency, Maintainability, and Origin.

Photovoltaic strategy

Solar paneling is used with Solar Thermal Concentrated Panels to produce maximum energy and usage. The system saves cost from Con Ed and provides the self-convenience for efficient use of electricity throughout the house.

What strategy would you copy? What is the greatest strength?

The use of louvers of Cypress and Solar Thermal paneling is quite interesting to use. Their greatest strength would be the amount of Sunlight gain and Smart appliance use/monitoring.

What is the greatest weakness of the entry? What would you avoid?

The greatest weakness is that of water innovations that could have been incorporated while and the level of performance by the judges critique was on average.

Additional comments?

I admire the use of Eco-Friendly materials.