



ARCH 3691
2013

Advanced Design and Building Information Modeling February

Your Name:	Anil K. Dipu
Name of Project:	Tidewater House, Team Virginia
Preference:	“Quite Technology Use”
Use of Passive Solar Strategies	
Solar Passive Strategies used in this house are: Dark tiles plates used in the porch for storage of heat from phase changing with insulation Air Flow naturally used from Rain-Screen technology of double wall system which then allows the building to cool and control heat gain. This passive air system increases ventilation throughout the building.	
Use of Sustainable strategies-	
Several sustainable strategies are: 10 Gal Drainback and Heat Exchanging reservoir which produces hot water with the use of solar panels and distilled water. The use of remote controlled devices for air additional air flow.	
Use of Technology	
Sustainable innovation and use of technology include: Compact Side Discharge Outdoor Unit, Wired or Wireless Remote controller (depending on devices used), “Quiet Operation”, Automatic Fan Speed Control, Auto restart following a powering outage, Self-Check Function, Integrated Diagnostics, and Advanced Microprocessor control. The house also has Compatible indoor units associated with remote control.	



Use of materials

The materials used are wood, concrete, glass, metal, and other materials.

Photovoltaic strategy

Solar paneling is used with the house for every appliance to gain the most efficient potential of electricity.

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

The use of Remote control appliances with HVAC is definitely great to use and also the Water recycling with distilled water into hot water with Rain-screen system are also great strengths of the house.

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

The greatest weakness is that of energy performance for night time phases.

Additional comments?

I admire the use of HVAC systems with remote control.