

X. SUSTAINABLE DESIGN COMPETITION

Advanced Energy is a non-profit agency established by the Governor of North Carolina. Through its Applied Building Science Team, it provides training, consultation and applied research to the energy industry with the goal of improving health, safety, durability, comfort and energy efficiency in houses and small commercial buildings. Advanced Energy is the North Carolina coordinator the N.C. Sustainable Building Design Competition.

Carolina Meadows was the sponsor of the 2008 Competition, the eighth annual competition. In August of 2007, Carolina Meadows and its architects, Calloway Johnson Moore & West, began working with Advanced Energy to develop the scope of this year's competition. The participating designers were given very detailed requirements for the design of a duplex *Villa* of approximately 4,050 square feet with a budget of approximately \$560,000.00. Carolina Meadows committed to building the winning design in its proposed new *Villa* neighborhood. The subjects of previous competitions have been Habitat houses with budgets of less than \$150,00.00, so the Carolina Meadows *Villa* offered this year's design teams a challenge of a much higher level.

The Competition winner was Cape Fear Community College. Other contesting teams were from NC State University, Forsyth Technical Community College, East Carolina University, Pitt Community College, Duke University, UNC-Greensboro and others. There were 36 registered design teams. 18 teams emerged from their local-level competition to be judged at the state level. The Cape Fear design will go on to compete in the national competition at *Greenbuild Boston* in November 2008.

The Design Challenge Program and materials from the Cape Fear Community College winning design are included in this section.