Special Features of the OGZEB:

- Hydrogen Appliances – (Burn hydrogen rather than natural gas, cleaner)
  - Water Heater
  - Stove/Oven
  - HVAC
- Rain Water Collection
  - Store water for irrigation purposes
  - Manage storm water run off
- High Efficiency Water Use
  - Low flow fixtures
  - Recycle grey water
- High Efficiency Lighting
  - LEDs
    - Reduce power consumed
    - Reduce heat emitted by lights
  - Passive Solar Skylights
    - Harness sun light efficiently
    - Our Design reduces heat transfer
  - Reduce Light Pollution
    - Prevent light from escaping building and effecting the environment
- Completely Solar Powered
  - Solar Cells provide electricity
  - Collectors Concentrating Solar Provide
    - Hot water
    - Solar Heat Powered HVAC
- Hydrogen Production and Use
  - New electrolyzer developed by SESEC
  - New fuel cell developed by SESEC
- Construction Waste Management and Reuse
  - Design the building based on available materials to reduce building waste
  - Reuse when at all possible
- Regional Materials
  - Utilize materials within a 500 mi radius of Tallahassee
- Rapidly Renewable Materials
  - Use materials that take under 10 yrs to grow
  - Easy to replace and less detrimental to the environment
- Data Collection
  - Collected data
    - Inside conditions
    - Outdoor air used in house
    - Ventilation and emissions
    - Lighting effectiveness
- Platinum Certification from the United States Green Building Council
  - Highest Level of Certification
  - One of only 15 buildings with this level of certification