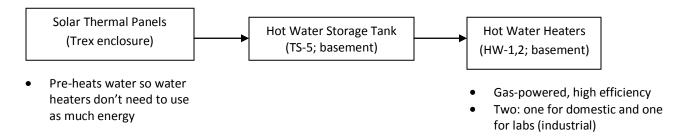
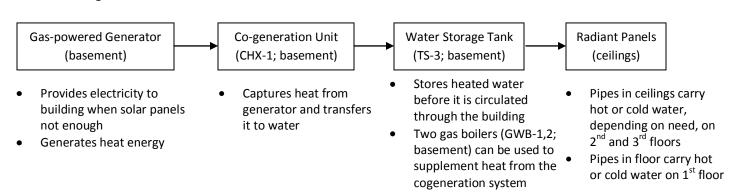
Green Systems

Solar Hot Water

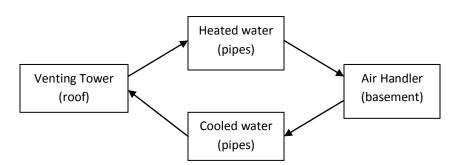


Heating the Building

Co-generation:



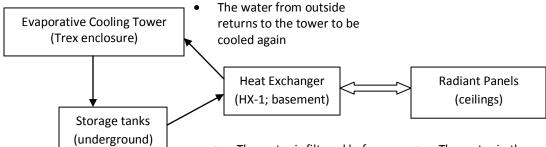
Heat Recovery System:



- Venting towers capture heat from the exhaust leaving the building and transfer it to water
- The heated water flows to the basement, where the heat is transferred to the air entering the building
- The now-cool water goes back to the roof

 There are two of these systems; one for each air handler

Cooling the Building



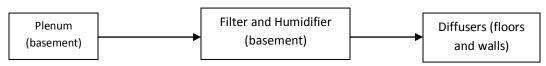
- Water drips down the tower at night (even in winter) while air blows up, which cools the water
- This cooled water is stored in two tanks (below the manhole covers)
- The water is filtered before passing through the heat exchanger
- The heat exchanger uses the water from outside to cool water in a second, separate system
- The water in the second system flows through pipes near the radiant panels to cool the building (when needed).
- The building has no traditional AC
- This system uses approximately 5-10% of the energy of a traditional AC system

Using Rain and Snow



- Rainwater and snowmelt from the roof is collected in the 3000 gallon tank
- The water is passed through UV and carbon filters
- Low-flow, dual-flush (1.6/0.8 gallons)

Air Handlers



- Brings fresh air in to two separate air handlers: one for domestic and one for industrial
- 100% fresh air is constantly circulating
- Filters out particulates (dust, pollen, etc.)
- Humidifies the air for occupant comfort
- Air is also pre-heated before being circulated (see Heat Recovery System)
- Diffusers are located in the lower wall on the 1st floor and in the floor on the 2nd and 3rd floors
- Air is exhausted through vents in the ceiling