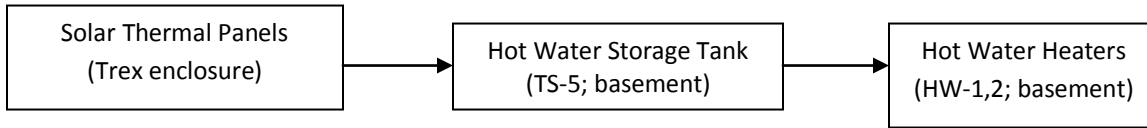


Green Systems

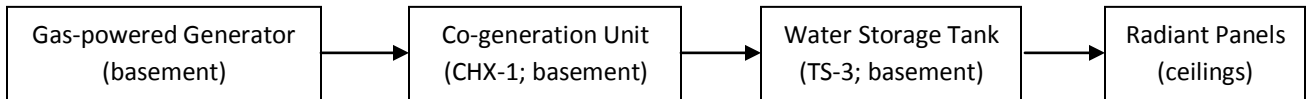
Solar Hot Water



- Pre-heats water so water heaters don't need to use as much energy
- Gas-powered, high efficiency
- Two: one for domestic and one for labs (industrial)

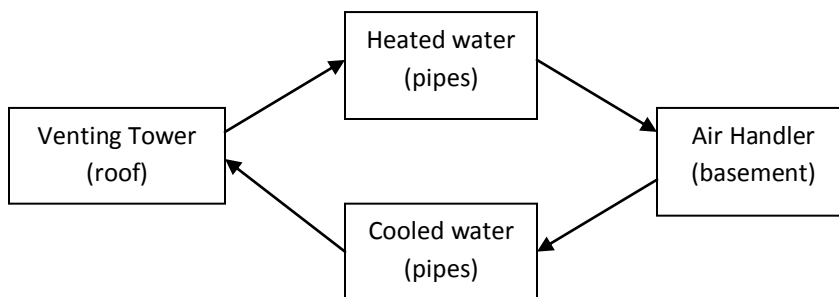
Heating the Building

Co-generation:



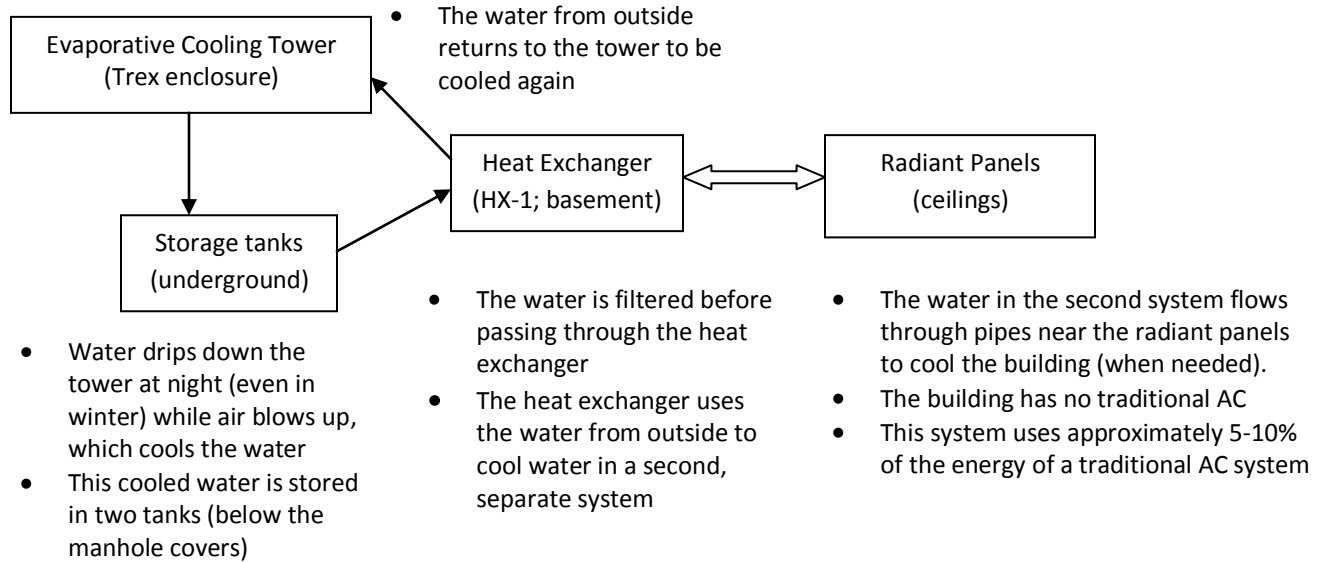
- Provides electricity to building when solar panels not enough
- Generates heat energy
- Captures heat from generator and transfers it to water
- Stores heated water before it is circulated through the building
- Two gas boilers (GWB-1,2; basement) can be used to supplement heat from the cogeneration system
- Pipes in ceilings carry hot or cold water, depending on need, on 2nd and 3rd floors
- Pipes in floor carry hot or cold water on 1st floor

Heat Recovery System:

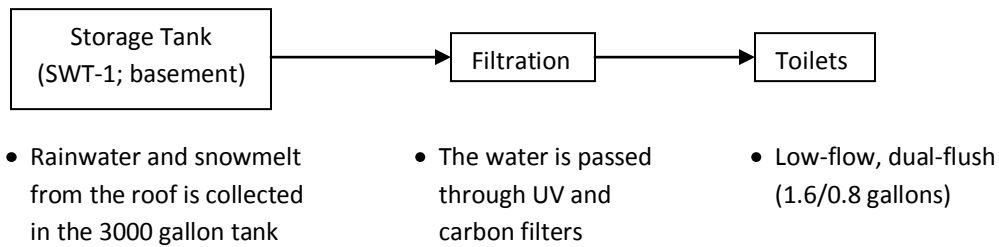


- Venting towers capture heat from the exhaust leaving the building and transfer it to water
- The heated water flows to the basement, where the heat is transferred to the air entering the building
- The now-cool water goes back to the roof
- There are two of these systems; one for each air handler

Cooling the Building



Using Rain and Snow



Air Handlers

