

Culverhouse Community Garden - Water System Simplified

- Our two-part water system runs on solar power.
- It is designed for 3-4 gardeners at a time to hand water with hoses for 15 minutes.

Part 1: The Well and the Cistern

- The well contains a submerged pump - powered by 2 solar panels.
- The pump fills the cistern.
- The black monitor on the inside shed wall indicates three things:
 - A. YELLOW light in cistern icon: the cistern is filled.
 - B. GREEN DOTS rising in the well icon: the pump is filling the cistern.
 - C. RED NUMBERS in the wattage meter: The pump is drawing power from the solar panels.

The well pump can be turned off (if cistern overflows) at the black monitor. See diagram posted on the wall to locate the red/green button display. Toggle RED for OFF.

Important Cloudy Day INFORMATION

The well pump may not have enough solar power to run.

- WATCH the red and white stick that slides into a black pipe in the top of the cistern.
- If red area of stick gets within 2 inches of the black pipe, the water level of the cistern is approaching the danger zone.
- **Action:** Stop watering. Turn OFF the PRESSURE PUMP inside shed. Wait for sun to shine.

Part 2: The Pressure Pump and Tanks

- The pressure pump inside the shed is powered by 2 solar panels and 4 large batteries.
- The pump pressurizes the 2 blue water tanks.
- Watering about 15 minutes with 3 hoses empties the tanks.
- The pump can then supply only 1 or 2 hoses at reduced pressure.
- When watering stops, the pump again fills the pressure tanks.

Important Watering INFO:

- Take turns using hoses and the pressure will be sufficient.
- Follow the illustrated directions hanging in the shed door way for turning ON and turning OFF the water system when you arrive and leave.