

Solar Water Pumping Sizing QUESTIONNAIRE

Customer Name _____

Email _____

Day Phone Number _____

Best time to call? _____

Evening Phone Number _____

Water Site Address _____

Shipping Address (If different) _____

Instructions for Customer: Please answer as many questions in this form as possible.

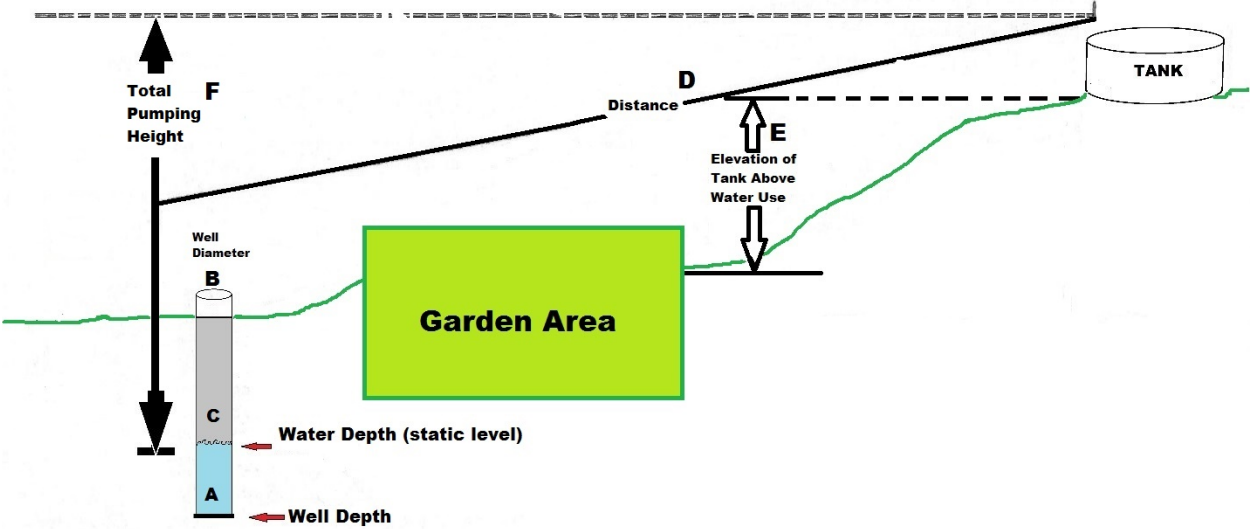
1. What is your interest in using solar power? Circle one or more. (Lower your utility bill) (Energy independence) (Environmental reasons) Other _____
2. What is your source(s) of water? (well, spring, pond, lake, cistern) _____
3. Average daily water consumption in **GALLONS PER DAY** (GPD) needed at your site?
*Summer _____ Winter _____
4. How close can the solar panel be located away from the water supply where the pump is located? _____ Try to keep this distance to a minimum. Ideally under 200 feet.
5. **Site Information:** (Circle one) Will you mount your solar array on the:
 - House roof?
 - Out Building Roof?
 - Pole?
 - Ground?



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**An ideal location for a solar site is in full sun between the hours of 10am through 3PM, without any obstructions/shading.

EXAMPLE SKETCH:



- a. **Well Depth?** _____
 - b. **Well Diameter?** _____
 - c. **Water Depth (static level)?** _____ (This is the resting water level in a well)
 - d. **Distance from water source** (point of use) to tank? _____
 - e. **Elevation** tank above point of water use (garden area)? _____
 - f. **Total Pumping Height** from the top of the water (level) source (example: static water level in well or pond level) to pumping delivery point (example, storage tank)? _____
6. **Well, stream or spring produces** _____ **gallons per minute?** (Recovery Rate GPM)
7. **Are you able to have a storage tank above your point of usage?** (Yes or No) _____

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Custom Design

Complete this page of the questionnaire (questions 8-12) in addition to the main portion of the Solar Electric Water Pumping Sizing Questionnaire (questions 1-7)

8. Basic needed information:

- a. Is this a new water pumping system? _____
- b. Is this to replace an existing water pumping system? _____
- c. Do you want this system to hook into the existing electrical grid? _____
- d. Do you want the solar water pumping system to be used as a backup source of water, in case of utility failure? _____
- e. Is this system to be used off grid without a utility hook up? _____

9. Please describe your existing system, if any.

Type of pump _____ Brand _____ Model# _____ Voltage _____ Amps _____
Horse Power of pump _____.

10. If gas/diesel generator is used in your location:

- a. Is it used for the main electrical supply? (Yes or No) _____
- b. Is it used as a back-up supply? (Yes or No) _____
- c. If a gas/diesel generator is used, how many hours is it used for the main electrical supply? _____
- d. If a gas/diesel generator is used, how many hours per day is it used for water pumping? _____

11. Type and gallon capacity of pressure tank (if applicable) _____

12. Please draw a sketch. Cover the area from your water source to your house and/or holding tank, including any other usage, details or photos. Use a separate piece of paper to sketch your drawing. Follow the example sketch.

