Instructions

Please complete the questionnaire as accurate as possible. Keep in mind that any design is only as good as the information supplied. Mail, fax or scan and e-mail the form to (306) 298 - 2000 We keep all your information confidential.

1 - 4. Enter the date - Enter your name or the name of the person to be contacted - Enter your physical address - Enter your contact details .

5. Where will the system be located, If an address is not available, please indicate the nearest town. This will be used to obtain solar radiation information for design purposes.

6. indicate what the water will be used for.

7. Enter the total well depth. This is the total depth of the well from ground level to the very bottom of the well.

8. Enter the static water level in the well. This is the depth of the water in the well when no water is being extracted from the well.

9. Enter the draw down water level for the well. This is the depth to which the water level in the well drops when a pump is operated.

10. If the water discharge point is some distance from the well, please enter the horizontal pipe length from the water well to the discharge point.

11. If there is any additional lift above the well head to the discharge water point, please indicate this additional vertical lift.

12. Indicated the water well inside diameter. This will enable us to ensure that the pump selected will fit your well casing.

13. The recharge rate is the rate at which the water well is replenished when a pump draws water from it. If a pump take more water from a well than its recharge rate, the well can be pumped dry.

14. Calculate how many gallons of water per day you require.

15. Will the water be used for only a certain season of the year or year round?

16. Do you have a water storage tank available at the proposed site?

17. A solar power system need as much unobstructed solar power as possible. This means that it should not be shaded during any part of the day for optimum performance.

- Cow/calf pair: 15-30 GPD
- Horse, dry cow, beef animal: 10-20 GPD
- Sheep: 2 GPD
- People (per person): 25-50 GPD
- Small animals: 1⁄4 GPD per 25lbs. Of body weight
- Poultry: 6-12 GPD per 100 birds

*** The above numbers are generalizations only.**

Truewest Solar. Val Marie, SK. Tel. (306) 298 - 2088. Fax: (306) 298 - 2000 www.truewest.ca

SOLAR POWERED WATER PUMPING DESIGN QUESTIONNAIRE

1. Date: _____

2. Name: _____

3. Address: _____

4. Phone: _____

+ Fax: _____

+ E-mail: _____

5. Water well geographical location: _____

6. What will the water be used
- Livestock
- Residential
- Irrigation

Other: _____

7. Total well depth (from ground level to bottom of well): _____ft

8. Static water level (depth from ground level to water level in well): _____ft

9. Draw down level (depth water draws down when well in use): _____ft

10. What is the horizontal distance from the well head to the water discharge: _____ft

11. What is the vertical distance from the well head to the water discharge: _____ft

12. Water well casing inside diameter: _____inch

13. What is the well recharge rate in gallons per minute (GPM)?: _____GPM

14. How many gallons per day (GPD) do you require? _____GPD

15. Is this water usage seasonal? Yes No If yes, which months? _____

16. Is a water storage tank installed at the site? Yes No

    If yes, what is the capacity? _____Gallons

17. Do you have clear unobstructed sunlight available at the well all day? Yes No
18. Do you have unobstructed and sufficient wind on your site to use a hybrid system? Yes No
19. Any comments or additional information: (Please use an extra sheet or call us with the information).

Thank You!