Solar Energy Group (Pty) Ltd Solar Water Pump Calculation Sheet					
					Please fill/type in and return via e-mail to: sales@SolarEnergyGroup.co.za or Fax it through to: 011 604 0426
Personal/Company Details (fill in where applicable)					
Clie	Client name:				
-	ntact Number(s)				
Company name:					
E-mail address					
Loc	ation/Area:				
Vat	number:				
Pump Calculations (Please fill in the light blue blocks)					
Nr	Description	Notes	Figure (Meters)	Figure (Meters)	
Pump Distances			Actual	Example	
	Total Borehole Depth	Ground level to the bottom of the borehole. The pump must never be to close to the bottom otherwise it sucks up dirt & debris that clogs and breaks the pump. Tested by lowering a weight down the hole attached to a rope, when the weight hits the bottom the rope slacks.		100	
В	Water height in the bore hole	Ground level to water level. The height at which the water stands in the borehole. Measured by dropping a SEGallish rock down the bore hole and counting the seconds until it hits the water. The rock falls at 1 meter per second.		50	
	Run-in / Tank height	Ground level to the heighest point the water runs into the reservoir. Also refered to as tank height. The closer the tank/reservoir is to the ground the less the pump needs to lift and the more water it will deliver per hour.		10	
	Total head	Run-in at the tank/dam/reservoir to the top part of the pump.	0	60	
Е	Horisontal pumping distance	Add 5m per 100m horisontal distance or if there is an incline add the height difference (E.g. 5 meter height difference over 200meter = $+5$ meter)		5	
F	Reservoir/Tank capacity (in liters/Kilo liters)	Size of the tank, reservoir, dam, etc The reservoir must be able to handle the daily delivery of the pump.		3000	
	Totale distansie		0	65	
Wa	ter delivery capacity				
G	Tested delivery capacity of the water source	What is the tested delivery capacity of the borehole, dam, put, well, river, aquifer, etc deliver per hour/minute? Keep in mind that a borehole can become a dry well if more water is pumped from it than can be replaced by the ground water sources. Please ensure a tested figure is provided.		2000.00	
Amount of water required					
	Per hour in liters (over 6 hours of average sunlight per day) Per day in liters Per hour in liter (over 6 hours)	1000 liters = 1 kiloliter	0.00	1666.67 10000 1.67	
	Per day in kilo liter Average hours of sunlight per day	Average in SA. Cloudy conditions, winter and summer allowed for.	0 6	10 6	
Ade	ditional Information required				
Ι	Additional information: Any other additional information that might influence the system, delivery or operation of the pumping system is of importance and will have to be taken into account when the pump is selected. This might include things like number of nozzles, pressure required, etc (for irrigation purposes). Also information like the type of borehole, if it is a new or old hole, water quality, etc needs to be provided upfront. The more information the better. Please note SEG does not supply installers on pumps.				

Add additional information here:

