The Tarlac Agricultural University is currently utilizing installed solar pump for its water consumption. The following are the location where solar pumps are installed with its corresponding power rating.

Solar Pumps:

1. 10-HP at Lover's Lane
2. 3-HP at Clinic
3. 3-HP at Feed Mill
4. 3-HP at CAF
5. 3-HP at Cattle/Bamboosetum
6. 3-HP at Palayamanan
7. 5-HP at Covered Court
8. 5-HP (2) at SMART

Computation of Daily Consumption of Solar Pumps:

1. Solar Pump 10HP supplying Alumni complex:

$$\frac{7500W}{1000} X\ 10\ hours = 75\ Kwh$$

2. Solar Pump 3HP supplying Clinic:

$$\frac{2250W}{1000} X\ 10\ hours = 22.5\ Kwh$$

3. Solar Pump 3HP near feed mill supplying any water works in the area

$$\frac{2250W}{1000} X\ 10\ hours = 22.5\ Kwh$$

4. Solar Pump 3HP at CAF supplying CAF

$$\frac{2250W}{1000} X\ 10\ hours = 22.5\ Kwh$$

5. Solar Pump 3HP at Cattle/Bamboosetum

$$\frac{2250W}{1000} X\ 10\ hours = 22.5\ Kwh$$

6. Solar Pump 3HP at Palayamanan

$$\frac{2250W}{1000} X\ 10\ hours = 22.5\ Kwh$$

7. Solar Pump 5HP at Covered Court

$$\frac{3750W}{1000} X\ 10\ hours = 37.5\ Kwh$$

8. Solar Pump 5HP (2) at SMART

$$\frac{3750W}{1000} X\ 2\ units\ X\ 10\ hours = 75\ Kwh$$

Low Carbon Energy Use

Location of Installed Solar Pump	Power Rating	Computed Daily Consumption, kWh	Computed Annual Consumption, kWh
Alumni Complex	10 hp	75	27375
Clinic	3 hp	22.5	8212.5
Feed Mill	3 hp	22.5	8212.5
College of Agriculture and Forestry	3 hp	22.5	8212.5
Cattle Project	3 hp	22.5	8212.5
Palayamanan	3 hp	22.5	8212.5
Covered Court	5 hp	37.5	13687.5
SMART (1)	5 hp	37.5	13687.5
SMART (2)	5 hp	37.5	13687.5
Total Consumption, kWh			**109500**
Total Consumption, GJ			**394.2**