

Template for Evidence(s) UI GreenMetric Questionnaire

University : Universiti Malaysia Pahang
Country : Malaysia
Web Address : <http://www.ump.edu.my/> and <http://mygreen.ump.edu.my/>

[2.8] [The ratio of renewable energy production divided by total energy usage per year]

Renewable Energy Project Name: Solar system FKM

Location: FKM Admin

Capacity: 10kW + 10kW

Total Generated year 2022

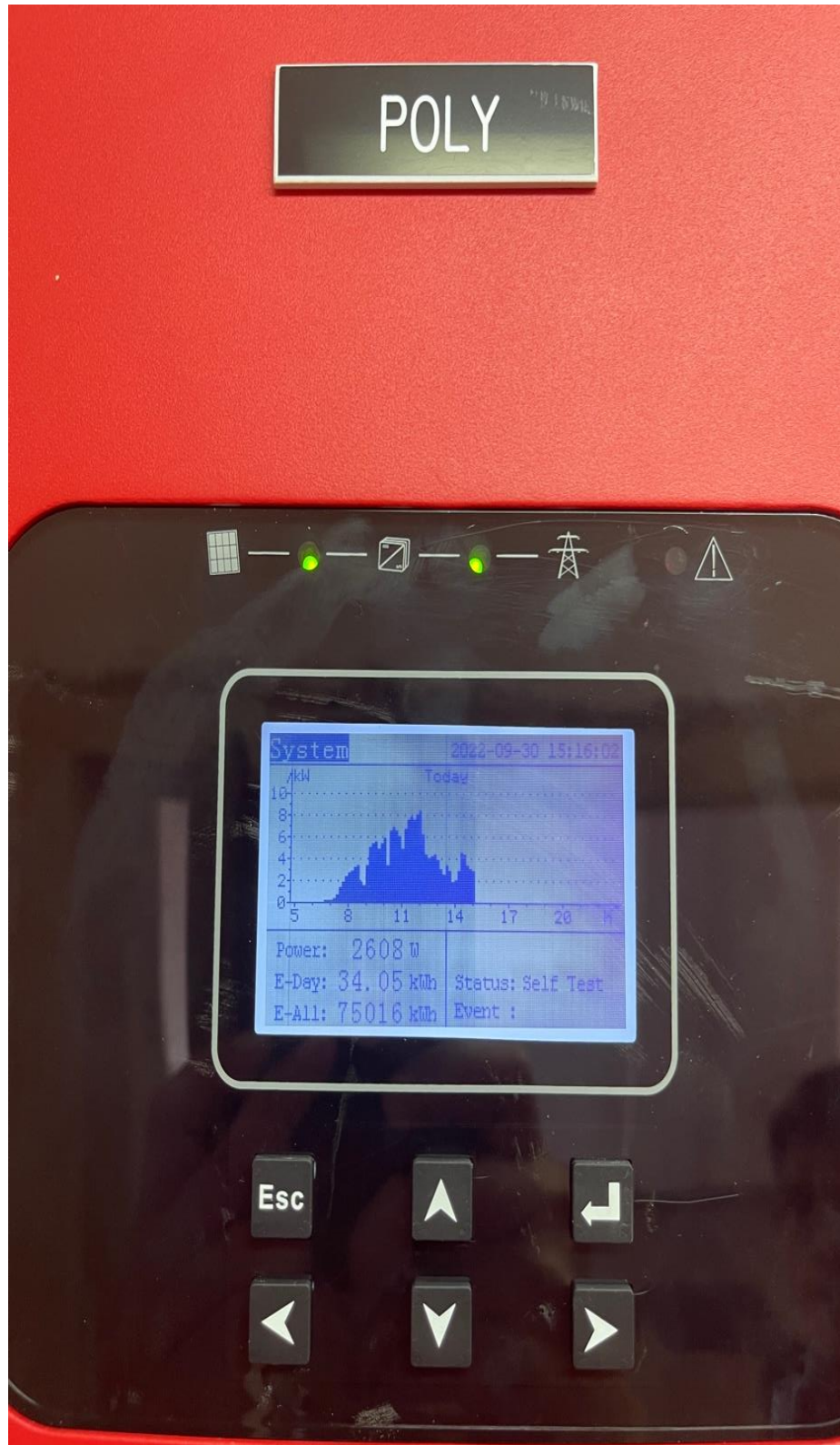
- a. Mono : 83,150 kWh
- b. Poly : 75,016 kWh



Additional evidence link:

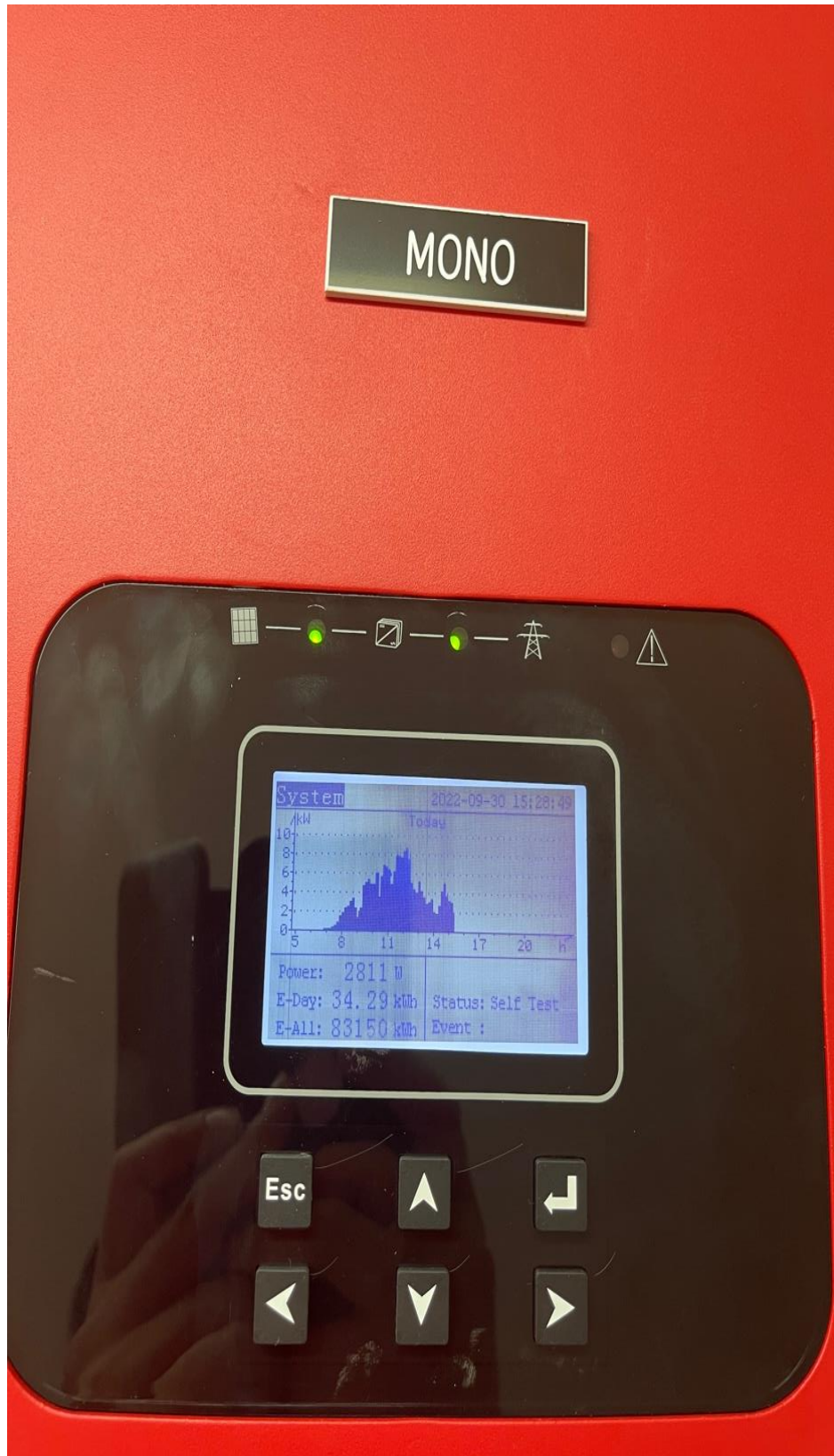
Poly System

Data recorded on 2022



Mono System

Data recorded on 2022



No.	Building/Area	Type of Renewable Energy	Year Installed	Capacity, kW	kWh produce year 2021-2022
1	FTKMA & FTKEE	Solar system	2016	21kW	158,166 kWh
2	Solar KP House	Solar system	2018	5kW	5,400 kWh
3	Entrance Guard House	Wind power	2012	22kW	-
4	FKKSA	Biodiesel	2007	30 Litre Biodiesel per 50 Litre cooking oil	-
5	Walkaway (Canseleri to Kafe)	Solar System	2019	2.4kW- off grid	4,380 kWh
6.	Wakf Hut	Solar System	2021	2kW	3,650 kWh
7.	Sea-Lite	Combine heat and power	2022	0.02kW	175.2 kWh
8.	Pico Hydro	Hydro Power	2022	0.015kW	32.85 kWh
9.	FTKMA & FTKEE	Wind Power	2021	250W 250W 800W	9,490 kWh
10.	FTKEE	Solar System	2022	0.5kW	912.5 kWh
11.	UMP Pekan & Gambang	Solar System	2021	4 kW	17,520 kWh
TOTAL					199,727 kWh

As for others renewable energy initiatives there is no individual meter to record the reading, but by calculations, there will be power productions by the initiatives. As for waqf hut the usage of it are everyday by the students.

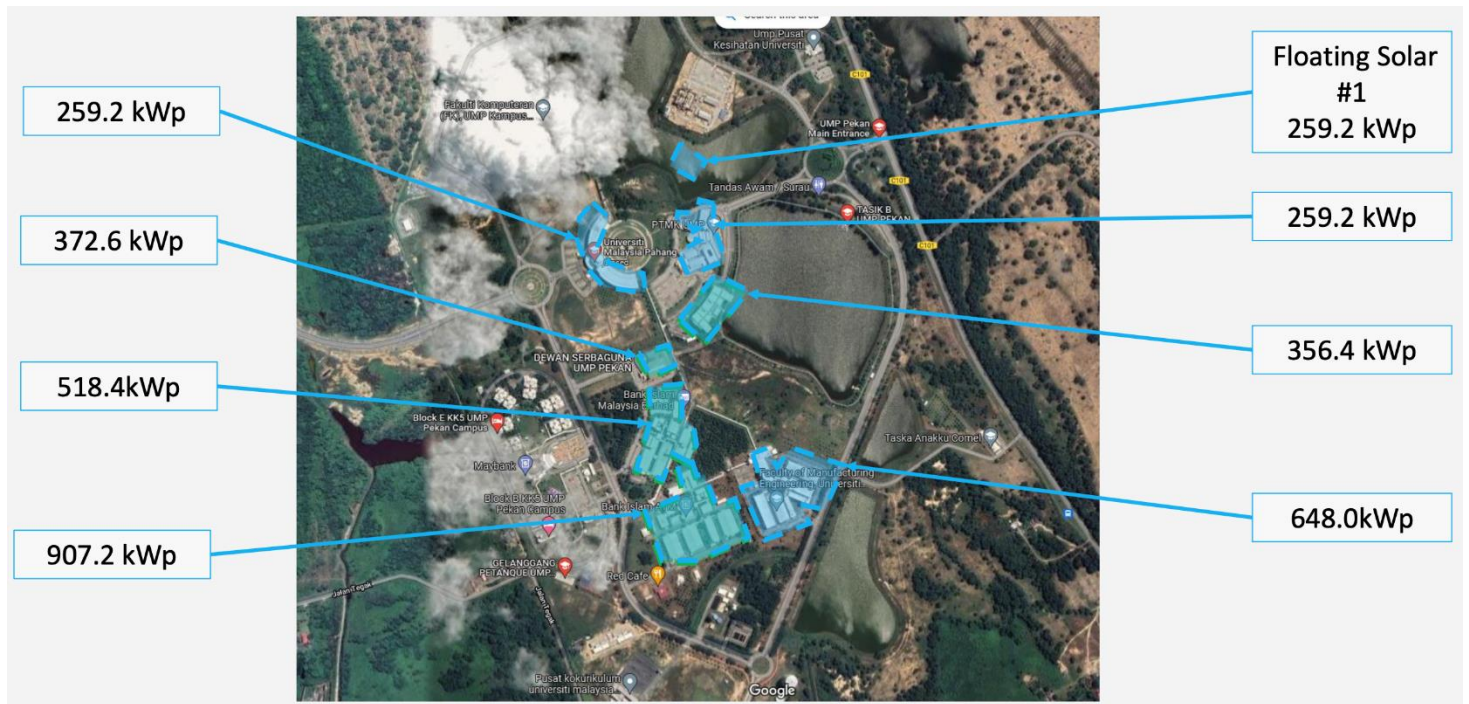
The detail calculated data as per table above, in Malaysia they are irradiations all over the year, for the peak of solar function it will takes 5 hours daily.

Description:

(Please describe your evidence)

- Renewable Energy production : 199,727 kWh
- Total Energy Usage per year : 18,296,937 kWh
- Ratio = $a/b = 1.09\%$

By the end of 2022, the installation of the solar system is expected to begin at UMP Pekan. 3.58MW solar will be installed on the roof top of the UMP Pekan buildings. Electricity generation from solar is expected to be up to 4,467,117 kWh per year.



- 1**
KERJASAMA DIANTARA UMP, TNB DAN GSPARX SDN.BHD
- 2**
KAPASITI PEMASANGAN 3.58MWATT
- 3**
PENJIMATAN :
 TAHUN 1-20 : RM 57,083/BULAN & RM 685,000/TAHUN
 TAHUN 21-25 : RM491,700/BULAN & RM 5,900,00/TAHUN
- 4**
PERJANJIAN SUPPLY AGREEMENT OF RENEWABLE ENENGY, SARE DIBAWAH SELIAAN TNB MALAYSIA
- 5**
PENGURANGAN CARBON CREDIT SEHINGGA 47%



NAIB CANSELOR

SURAT NIAT

Rujukan Kami : UMP.01/11.21/2/1 JILID 8 (64)
Tarikh : 26 September 2022

GSPARX SDN. BHD.
(1266412-K)
Annexe Building
No. 129, Jalan Bangsar
59200 Kuala Lumpur
(u.p : Encik Elmie Fairul bin Mashuri)

Tuan,

PROJEK PEMASANGAN SISTEM SOLAR MELALUI PAKEJ PEMASANGAN TANPA MODAL DI UNIVERSITI MALAYSIA PAHANG

Dengan hormatnya saya merujuk kepada perkara di atas.

2. Sukacita dimaklumkan bahawa Mesyuarat Lembaga Perolehan Universiti Bil. 5 Tahun 2022 bertarikh 5 Ogos 2022 berhasrat untuk melantik syarikat tuan bagi kontrak di atas dengan harga