**[2] Energy and Climate Change (EC)**

**[2.8] Ratio of renewable energy production divided by total energy usage per year**

*1-PV System for Irrigation*

*2-Biogas Plant*

*3-PV System for Irrigation*

*4-Solar Tunnel Dryer*

5-Solar System for irrigation (C-Block)

*6-Solar Desiccant Cabinet dryer for fruits*

| | |
|---|---|
|  |  |
| 7-Solar System Based Entomology Lab (A-Block) | *8-Solar Desiccant Dryer for grains* |

**Description:**

MNS University of Agriculture Multan Pakistan is following the financial year's pattern which starts from 1st of July and ends on 30thJune. If we take the data from this format the following months are included in the financial year 2021-22.

Total Energy Consumption from (1st July 2021 to 30th June 2022) = 120, 8431

| No | Renewable Energy | Production (in kWh) |
|---|---|---|
| **1** | Installation of 500 kW on grid PV system | 1,507360 |
| **2** | Biogas Plant | 20 $m^3$ $day^{-1}$ or 365 Kwh |
| | Solar Thermal: | 6.7 kW or 24,000 kWh |
| | **Total Production Capacity** | **1,531,725** |

1,531,725(120,8431) = 323294
Additional Unit Produce: 323294

**1,531,725/120,8431 *100 (Electricity usage) =** *126.75%*

**Additionally, Produced =** *26.75%*