

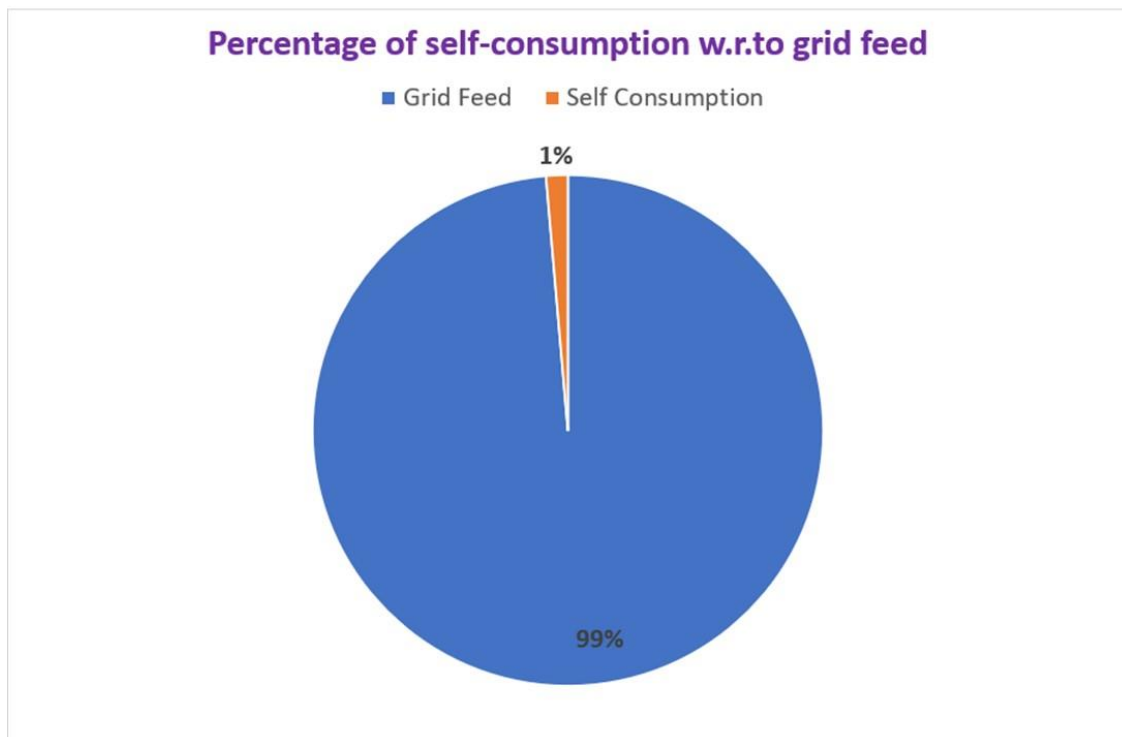
Observation summary from SIP grid integration pilot project at Kalinathpur, Mirpur, Kushtia (January - December 2020)

Summary Result:

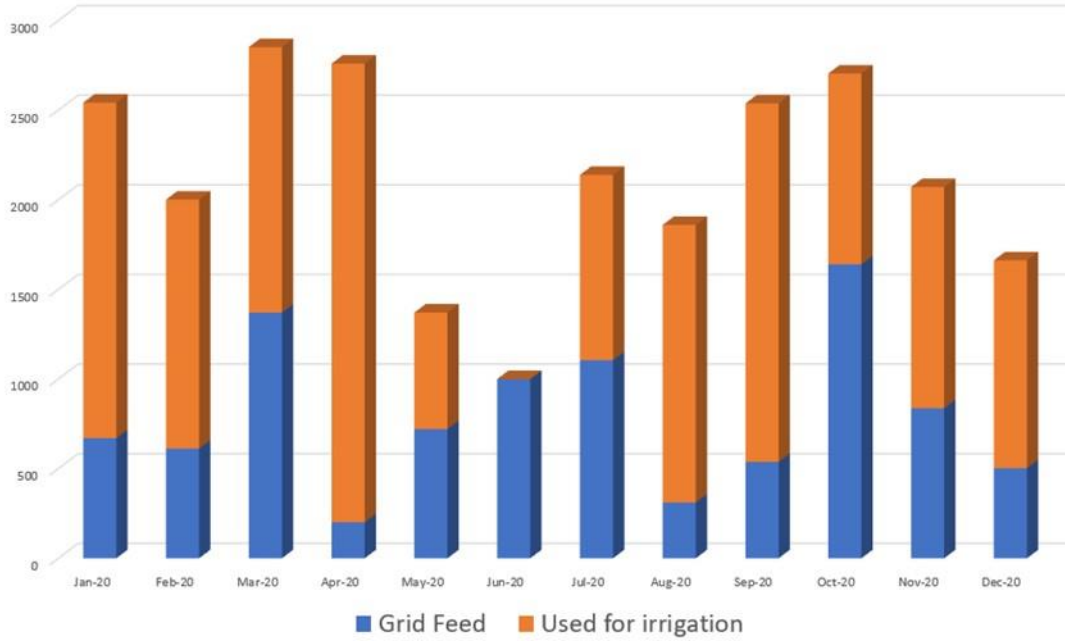
- SIP grid integration pilot project has been successfully operating since 4th of November 2019. The install capacity of the SIP was 24.45 KW.
- Total solar energy production from the system in 2020 (January 2020 -December 2020) was **25501kWh**
- Total solar power used for irrigation from the pilot project during this time was **15992kWh**
- Total solar power exported to the grid from the pilot project in 2020 was **9509kWh**
- Approximately 37% of generated solar power was fed to grid. Remaining solar power (62%) used for irrigation and self-consumption.
- Self-consumption of grid-tie inverter from grid varies with the irrigation demand and It was approximately 1% of exported energy to the grid from the project.

Monthly energy data

Month	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Annual
Grid Feed	670	612	1371	201	721	1000	1105	311	538	1640	837	503	9509
Self-Consumption	11.92	10.93	10.71	12.57	10.46	7.81	10.51	12.46	11.92	10.85	10.38	11.65	132
Used for irrigation	1872	1389	1481	2559	650	0	1034	1549	2000	1064	1235	1159	15992



Solar energy used for irrigation VS grid feed



Percentage of solar power utilization

