

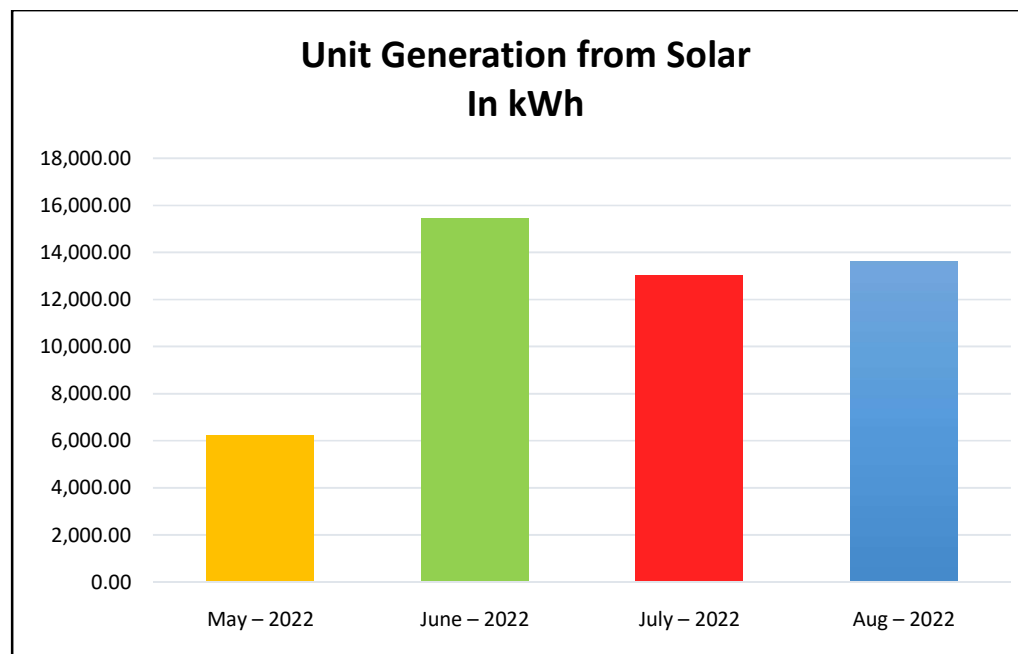
ANALYSIS OF ELECTRICITY BILL AND 150kWp GRID CONNECTED SOLAR POWER PLANT PERFORMANCE AT UDAYANATH AUTONOMOUS COLLEGE OF SCIENCE& TECHNOLOGY, ADASPUR

UN Autonomous College SOLAR POWER PLANT PERFORMANCE

Month	Unit Generation from Solar In kWh
May – 2022	6,230.61
June – 2022	15,438.44
July – 2022	13,033.38
Aug – 2022	13,644.90
Total	48,347.33

Note:

1. 150kWp Solar Power Plant was Synchronized with the TPCODL Network on 13th May 2022
2. The performance of the Solar Power Plant can be monitored by login on to Remote Monitoring Website of the Inverter Manufacturer for from the Mobile App



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Electricity Bill Analysis for the Month of May – Aug 2022

Month	Import	Export	NET
	Units	Units	Units
May-22	27,828.00	0.00	27,828.00
Jun-22	30,759.00	5,025.00	25,734.00
Jul-22	31,347.00	666.00	30,681.00
Aug-22	35,784.00	2,115.00	33,669.00

Note:

1. First Solar Bill was Generated in the Month of June 2022, so the Solar Units generated and Exported Units from 13th May till 30th May 2022 were added and adjusted in the Bill of June 2022

Month	Electricity Bill with Solar						
	Units Billed	Energy Charges	Demand Ch.	Incentive of TOD	Electricity Duty @ 8%	Cust. Ser. Chrgs.	Total
	1	2	3	4	5 (2 x 8%)	6	7 (2+3+4+5+6)
May-22	27828	1,62,793.80	25,557.50	-	13,023.50	250.00	2,01,624.80
June-22	25734	1,34,501.50	35,555.00	-5,146.80	10,348.38	250.00	1,75,508.08
July-22	30681	1,79,483.85	35,555.00	-3,279.00	14,096.39	250.00	2,26,106.24
Aug-22	33669	1,96,963.65	35,555.00	-3,963.20	15,440.04	250.00	2,44,245.49

Month	Solar Units Generated	Solar Units Consumed	Actual Electricity Consumption	Energy Charges Without Solar @ Rs.5.85/kWh	Electricity Duty without Solar @ 8%	Total Bill Amount Without Solar	Reduction in Electricity Bill due to Solar
	8	9 (8-Export Units)	10 (Import Units+9)	11 (10 x 5.85)	12 (11 x 8%)	13 (11+12+3+4+6)	14 (13-7)
May-22	-	-	-	-	-	-	-
June-22	23422	18397	49156	2,87,562.60	23,005.01	3,41,225.81	1,65,717.73
July-22	11048	10382	41729	2,44,114.65	19,529.17	2,96,169.82	70,063.58
Aug-22	13610	11495	47279	2,76,582.15	22,126.57	3,30,550.52	86,305.04
Total Saving during the Period of 13th May 2022 – 31st August 2022 due to 150kWp Grid Connected Solar Power Plant							3,22,086.35