

Low Carbon Energy Use

The GMRIT campus is equipped with a 700kW solar power plant and 1000KVA DG sets. Solar panels typically have a lifespan of approximately 25 years and demand minimal maintenance over this period. During the academic calendar year between Jan 2022 to Dec 2022, the solar power plant operating in GMRIT produced annually about **981561KWH** units. Out of annual total solar energy production, a quantity of around **755716 KWH** units were used for electricity purpose within the GMRIT campus. Further a volume up to **225845 KWH** units were given to local government Electric Board. A compassion fact is that about 77% of solar energy production has been used for GMRIT campus and the remaining 23% only provided to EB. Similarly total electricity consumed annually both from EB and solar power plant was around **2048698 KWH** units. Among the total electricity utilization in the stipulated year, 63 percent and 37 percent of EB and Solar Power were attributed respectively.

ELECTRICITY CONSUMPTION FOR THE YEAR JAN 2022 TO DEC 2022 <i>Energy units in KWH</i>					
Month	EB consumed	SOLAR Produced	Solar to EB	Solar Consumed	Total Energy Consumed Units
JAN	73879	94424	45200	49224	123103
FEB	79507	93036	33840	59196	138703
MAR	115496	96184	17952	78232	193728
APR	132819	86339	9292	77047	209866
MAY	130249	89743	8922	80821	211070
JUNE	125994	69386	5200	64186	190180
JULY	121439	66500	8913	57587	179026
AUG	105816	71401	12257	59144	164960
SEP	118908	71471	10765	60706	179614
OCT	88419	74874	22140	52734	141153
NOV	99369	85982	26087	59895	159264
DEC	101087	82221	25277	56944	158031
Total Sum Up	1292982	981561	225845	755716	2048698
Average	107749	81797	18820	62976	170725

Sample Photos - Solar Power Plant



