

## **ENERGY CONSERVATION MEASURES**

1. Energy conservation week has been observed in Palakkad division from 08.12.20 to 14.12.20 with the following activities.
  - a. Essay writing competition and Quiz competitions conducted among staff at various depots and distributed prizes for the winners.



### **b. Seminars**

Seminars conducted at various stations to aware about energy conservation in day to day life and also about green energy.



c. Pasted Posters and banners at important locations of various stations.



d. Pamphlets distributed to the employees, passengers, occupants of Railway colony and public at various stations.



e.

- **ENERGY AUDIT:** Energy Audit of 14 Stations has been completed by outside agencies and their suggestion to reduce the consumption has been implemented. (PGT,OTP,SRR,KTU,TIR,QLD,BKJ,CAN,TLY,PAY,MAQ,MAJN,KGQ & KZE)

**GENERATION FROM SOLAR SYSTEMS - 2020-21 (UP TO March-21)**

S No	Rail way	Location	State	Capacity (in kWp)	Date of commissioning	Net energy generated (in kWh)		Net savings Achieved (in Rs.)	
						MARCH '21	2020-21	MARCH '21	2020-21
						1	SR	PLL stn.	Kerala
2	SR	TLY stn.	Kerala	3 kWp	10.12.16	135	1261	945	8603
3	SR	Div./O/PGT	Kerala	105 kWp	02.03.17/	14422	142231	89416	907305
					26.6.19				
4	SR	Rly. Hsptl. /PGT	Kerala	20 kWp	02.03.17	2803	25914	17379	160667
5	SR	CLT stn	Kerala	100 kWp	10.07.19	10929	122470	27978	304388
6	SR	PGT stn	Kerala	50 kWp	25.09.19	6987	69526	17887	172932
7	SR	SRR stn	Kerala	50 kWp	25.10.19	5813	49848	14881	124001
8	SR	CAN stn	Kerala	50 kWp	31.10.19	6080	58766	15565	146112
9	SR	TLY stn	Kerala	50 kWp	28.10.19	1330	17374	4469	56900
<b>Total</b>						<b>48625</b>	<b>488805</b>	<b>189402</b>	<b>1890846</b>



## **ENERGY CONSERVATION MEASURES IN PROGRESS / UNDER PROCESS**

- Setting Up of 50 kWp Solar Power Plant at MDDTI/PGT – Work completed and Grid connected by KSEB and commissioned on 05.06.2021.



## **PROVISION OF ROOF TOP SOLAR SYSTEMS - ( Total -480 KWP)**

### **Provided by division**

<b>S No</b>	<b>Location</b>	<b>Capacity in KWP</b>	<b>Date of commissioning</b>
1	PLL stn.	2	26.05.15
2	TLY stn.	3	10.12.16
3	Div./O/PGT	10/ 95	02.03.17/26.6.19
4	Rly. Hsptl. /PGT	20	02.03.17
5	MDDTI/PGT	50	05.06.2021
	<b>Total</b>	<b>180 KWP</b>	

## **PROVIDED UNDER REMCL-2**

<b>Sl.no</b>	<b>Location</b>	<b>Capacity in KWP</b>	<b>Date of commissioning</b>
1	CLT stn	100	10.07.19
2	PGT stn	50	25.09.19
3	SRR stn	50	25.10.19
4	CAN stn	50	31.10.19
5	TLY stn	50	28.10.19
<b>Total</b>		<b>300 KWP</b>	

## **Details of solar generation for the last three years**

	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22 (up to May-21)</b>
<b>Energy generated</b>	<b>13467 KWH</b>	<b>316265 KWH</b>	<b>488805 KWH</b>	<b>82911.8 KWH</b>
<b>Savings by solar generation</b>	<b>Rs.1,02,641/-</b>	<b>Rs.11,88,435/-</b>	<b>Rs.1890846</b>	<b>Rs.322510/-</b>

- Thalassery station is identified as **NET ZERO** station by the installation of 50 KWP Roof top solar panels. In the month of November 2020, the consumed units and exported units were found equal.