

Coslight Lithium Battery Deployment in India

Coslight deployed its lithium battery this year in rural areas of Chhattisgarh where power grid availability is either zero or very poor.

Site Description

- ⊕ Geographic Location :- Chhattisgarh
- ⊕ Average Daily Temperature :- 40 ~ 45
- ⊕ Site Type :- Outdoor
- ⊕ Base Transceiver station (BTS) :- 2 OD
- ⊕ Grid Power Availability :- NA
- ⊕ Battery Bank :- VRLA,600Ah
- ⊕ Avg. DG Run/day :- 14 Hrs



Solution Installation

Coslight lithium battery having power 300Ah and voltage 48V is installed on site with intelligent BMS and data logger in place of existing 600 Ah VRLA Battery to reduce the DG run hours and carbon footprints. Lithium battery installed provide long backup hours as compared to existing solution .Remote monitoring of the solution is done for 1 month to analyze the comparable figures on the site.

Product Performance

During installation, DG run hour per day is 14 hours (app.). During 1 month we analyze the daily DG run hour / Battery run hour report. Coslight solution with its short charging cycle and long discharging cycle provide long duration of power backup for telecom site. It provides continuous power supply thus helps to remain site alive for 24 hours. Coslight battery bank at site reduce DG run hours by 35 % (app.) in 1 month. By evaluating real time analysis, it is concluded that there is reduction in fuel consumption and carbon footprints due to DG run hours at site after lithium battery bank installation. Hence Coslight battery bank proved to be a profitable solution for the site.

Comparison Chart

	Before installation	After Installation
DG run hours per day	14 Hrs	6 Hrs
Battery Run hours per day	10 Hrs	18 Hrs
Fuel Consumption in 1 month	672 Ltrs	450 Ltrs
Fuel cost in 1 month	40,320INR/\$655.71	27,000INR/\$439.09
Carbon emission per month	1814Kg	1215Kg

Product Features:



Small in size, light in weight.



Excellent high temperature performance; cycle-life is more than 7000, at +35°C, 50%DOD.



Lithium Ion batteries does not require any cooling system which helps to save energy and increase efficiency.



Reduces Carbon Foot prints.