

CASE STUDY

POWERING OPERATIONS THROUGH SOLAR

Santej Unit

CHALLENGE

Rising power costs and higher emissions of conventional energy made us look towards renewable sources for power generation. The challenge was to integrate solar power with grid power to bring down our cost and the emissions.

ACTION

We decided to partially replace grid power with solar power in substation-1 and installed a rooftop solar system. These two initiatives when combined provided the unit with energy security, brought down power costs and helped us save the environment.



OUTCOME

COMPARATIVE STUDY PHASE 1

Description	Grid Power	Solar Power
Average of Grid Power Consumption MWh / month	22,475.57	0
Average of Grid Power Consumption MWh / month	21,812.18	663.40
Savings in Grid Power Consumption kWh / month	663.40	
Savings in Grid Power Consumption Lakh / month	33.17	
Savings in Grid Power Consumption kWh / year	7,960.78	
Savings in Grid Power Consumption Lakh / year	398.04	
Reduction in GHG Emissions tCO ₂ e / month	597.06	
Reduction in GHG Emissions tCO ₂ e / year	7,164.70	



Reduction in
GHG Emissions

7,165

tCO₂e