

Power Supply Position & Energy Management in Odisha

A. Demand Supply Scenario of Power:



The power demand of the State has registered an upward trend due to massive electrification through pilot scheme like RGGVY, Biju Gram Jyoti & Biju Saharanchal Vidutikaran Yojana, rapid industrialization and increase in consumer profiles.

The demand and supply position along with the consumer numbers of the State for last six years is as below:

Sl. No	Year	Nos of Electrical Consumer (Lakh)	Demand (MW)	Availability (MW)
1	2006-07	24.27	1947	2155
2	2007-08	25.89	2273	2352
3	2008-09	27.51	2214	2261
4	2009-10	29.44	2354	2387
5	2010-11	33.25	2531	2226
6	2011-12	39.27	2538	2591

Earlier GRIDCO was comfortable with availability of power as the demand was less. All the power requirements of the State were met from own resources and GRIDCO was able to trade surplus power.

However, due to surge in power demand for last few years the State Government/GRIDCO made all possible efforts to supply normal power to the consumers by way of purchase/sale of power through bilateral trading with other States, purchase/sale from other power surplus states, over drawal through UI from central pool and purchase of surplus power from the CGPs in the State as per requirement during deficit/surplus situation.

B. Management of Present Power Demand:

The present average demand and peak demand of power in the State has reached 2800-2900 MW and 3300-3400 MW respectively. The existing Installed Capacity and present average Generation/availability from various sources are as below:

	<u>Installed Capacity</u>	<u>Average generation/availability</u>
OHPC& SHEP -	(2085+57) MW	900 MW
TTPS -	460 MW	390 MW
OPGC -	420 MW	380 MW
Central Allocation-	1084 MW	400 MW
CGPs -	Surplus power	300 MW
<u>IPPs(Sterlite, Arati,GMR)-</u>	<u>State share</u>	<u>430 MW</u>
Total Generation -	4106 MW	2800 MW

The present average demand is being met from the existing sources of generation by GRIDCO. During peak period/hour OHPC is generating an excess of 300-400 MW and thus the peak power demand is being met.

The State Government/GRIDCO is resorting all possible efforts to supply normal power by way of purchase of power through over-drawal from central pool as per requirement. The power Status on 21.05.2013 is furnished at Annexure-A.

C. Reservoir position as on 21-05-2013:

Hydro Power Station	FRL (Full Reservoir level)	MDDL (Min. draw down level)	Reservoir position on 21-5-12	Reservoir position on 21-5-13	Live Storage
Hirakud	630 Ft	590 ft	601.79	601.23	16.76 %
Balimela	1516 ft	1440 ft	1439.90	1484.70	46.40 %
Rengali	123.5 m	109.72 m	110.24	112.93	15.96 %
Upper Kolab	858 m	844 m	845.58	851.15	38.82 %
Indrabati	642 m	625 m	628.04	629.66	22.80 %
Machhkund	2750 ft	2685 ft	2724.55	2715.20	-

Hydro electricity supplements the around 25% power demand of the State at cheapest rate.

Due to sufficient rain in reservoir area, proper management of Reservoir Level by OHPC in consultation with WR Dept, this year the reservoir levels are in comfortable position and hydro generation is being increased during summer which is supplementing the power demand substantially and this year we expect normal power supply during the summer.

