

Power System Rajasthan

Estimated Installed Capacity (MW)

Plant	FY 99	FY 00	FV 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
Rajasthan Installed¹⁾									
Kota Thermal (RSEB)	850	850	850	850	850	850	850	850	850
Suratgarh Thermal I (RSEB)	250	250	500	500	500	500	500	500	500
Suratgarh Thermal II (RSEB)	0	0	250	500	500	500	500	500	500
Ramgarh Gas (RSEB)	38	38	38	38	38	74	109	109	109
Mahi Hydro (RSEB)	140	140	140	140	140	140	140	140	140
Chambal Hydro (Shared)	193	193	193	193	193	193	193	193	193
Wind/Solar (R SPCL)	0	2	5	5	5	5	5	142	142
RAPP Nuclear (NPC)	344	344	388	388	388	388	388	388	388
NAPS Nuclear (NPC)	42	42	42	42	42	42	42	42	42
<i>Total Installed</i>	1857	1859	2406	2656	2656	2692	2691	2864	2864
Shared Capacity									
Satpura Thermal	125	125	125	125	125	125	125	125	125
BBMB Hydro	639	639	639	639	639	639	639	639	639
Jakham Hydro	0	0	0	0	0	0	0	5	5
Anas Hydro	0	0	0	0	0	0	0	45	45
<i>Total Shared Capacity</i>	764	764	764	764	764	764	764	814	814
Power Purchases (excluding IPPs)²⁾									
Singrauli Thermal	300	300	300	300	300	300	300	300	300
Rihand Thermal	95	95	95	95	142	190	190	190	190
Unchahar Thermal	58	58	58	58	58	58	58	58	58
Anta Gas	83	83	83	83	83	178	272	272	272
Auriaya Gas	61	61	61	61	91	143	143	143	143
Dadri Gas	76	76	76	76	76	76	76	76	76
Tanakpur Hydro (NHPC)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
Salal Hydro (NHPC)	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
Chamera Hydro (NHPC)	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
Uri Hydro (NHPC)	43	43	43	43	43	43	43	43	43
Planned Hydro (NHPC)	0	0	0	89	203	287	367	367	367

Plant	FY 99	FY 00	FV 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
Western Grid	0	0	0	0	0	0	0	0	0
Special Allocations	700	700	700	0	0	0	0	0	0
Total Purchases	6047	6047	6047	3603	4367	5483	6179	6179	6179
IPPs									
Small Liquid Fuel	0	0	0	0	0	0	0	0	0
Dolphur	0	0	0	0	0	0	0	0	0
Barsingsar	0	0	0	0	0	0	0	0	0
CEPA	0	0	0	0	0	0	0	0	0
Total IPP ³⁾	0	0	0	0	0	0	0	0	0
Total Installed/Shares/Purchases	8668	8670	9217	7023	4500.5	4815.5	5024.5	5211.5	5211.5
Total Installed Hydro	1113	1113	1113	1202	1316	1400	1480	1530	1530
Peaking Capability ⁴⁾	2882.35	2883.69	3250.18	3018.01	3158.61	3378.9	3527.73	3658.52	3658.52
Peak Load Rajasthan ⁵⁾	3500	3753	4026	4317	4630	4966	5326	5715	6130
Surplus/Deficit	-617.65	-869.31	-775.82	-1298.99	-1411	-1587.10	-1798.27	-2056.48	-2471.48

- 1) Capacity installed in Rajasthan and dispatched by RSEB, excluding captive power and mini hydro plants not connected to the main grid.
- 2) Excluding power purchases from non-RSEB plant installed in Rajasthan.
- 3) It is assumed that no IPP project will be commissioned until 2007.
- 4) According to RSEB estimates, on average 67% of the installed thermal capacity and 78% of the hydroelectric capacity is available for peaking.
- 5) RSEB forecast, adjusted downwards to comply with actual peak in 1999.

Source: RSEB and World Bank

Source	FY 99	FY 00	FV 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
Small Liquid Fuel	0	0	0	0	0	0	0	0	0
Dolphur	0	0	0	0	0	0	0	0	0
Barsingsar	0	0	0	0	0	0	0	0	0
CEPA	0	0	0	0	0	0	0	0	0
Total IPP ³⁾	0	0	0	0	0	0	0	0	0
Total Energy (Installed/Shares/Purchases)	53255	54333	54809	56210	58824	31319	32778	76865	77885
Energy Demand Rajasthan	20848	22355	23982	25715	27580	29581	31725	34043	36515
Surplus/Deficit ⁴⁾	32407	31978	30827	30495	31244	1738	1053	42822	41370

- 1) Capacity installed in Rajasthan and dispatched by RSEB, excluding captive power and mini hydro plants not connected to the main grid.
- 2) Excluding energy purchases from non-RSEB plant installed in Rajasthan.
- 3) It is assumed that no IPP project will be commissioned until 2007.
- 4) During off-peak periods.

Source: RSEB and World Bank