

**Power System Rajasthan****Estimated Installed Capacity (MW)**

<b>Plant</b>	<b>FY 99</b>	<b>FY 00</b>	<b>FV 01</b>	<b>FY 02</b>	<b>FY 03</b>	<b>FY 04</b>	<b>FY 05</b>	<b>FY 06</b>	<b>FY 07</b>
<b>Rajasthan Installed<sup>1)</sup></b>									
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	2	2	2	139	139	139	139
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	2403	2653	2653	2826	2861	2861	2861
<b>Shared Capacity</b>									
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
<b>Power Purchases (excluding IPPs)<sup>2)</sup></b>									
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

<b>Plant</b>	<b>FY 99</b>	<b>FY 00</b>	<b>FV 01</b>	<b>FY 02</b>	<b>FY 03</b>	<b>FY 04</b>	<b>FY 05</b>	<b>FY 06</b>	<b>FY 07</b>
Western Grid	0	0	0	0	0	0	0	0	0
Special Allocations	700	700	700	0	0	0	0	0	0
Total Purchases	1500.5	1500.5	1500.5	889.5	1080.5	1359.5	1533.5	1533.5	1533.5
<b>IPPs</b>									
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 <sup>3)</sup>	0	0	0	0	0	0	0	0	0
Total Installed/Shares/Purchases	4121.5	4123.5	4667.5	4306.5	4497.5	4949.5	5158.5	5208.5	5208.5
Total Installed Hydro	1099.5	1099.5	1099.5	1188.5	1302.5	1386.5	1466.5	1516.5	1516.5
Peaking Capability <sup>4)</sup>	2882.35	2883.69	3248.17	3016.09	3156.6	3468.68	3617.51	3656.51	3656.51
Peak Load Rajasthan <sup>5)</sup>	3500	3753	4026	4317	4630	4966	5326	5715	6130
Surplus/Deficit	-617.65	-869.31	-777.83	-1300.91	-1473.4	-1497.32	-1708.49	-2058.49	-2473.49

- 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 <sup>3)</sup>	0	0	0	0	0	0	0	0	0
Total Energy (Installed/Shares/Purchases)	23003	24081	24557	25958	27135	31718	33576	34658	35015
Energy Demand Rajasthan	20848	22355	23982	25715	27580	29581	31725	34043	36515
Surplus/Deficit <sup>4)</sup>	2155	1726	575	243	-445	2137	1851	615	-1500

- 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