



Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति



Eastern Regional Power Committee

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No: ERPC/MS/LGBR/2019-20/ 6925-74

Dated the 28th December, 2018

To,
As per list enclosed

Sub: Draft Load Generation Balance Report (LGBR) of Eastern Region for the year 2019-20

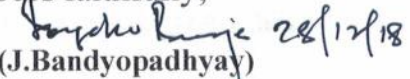
Sir,

Enclosed please find a copy of the Draft LGBR of Eastern Region for the year 2019-20. The draft LGBR has been prepared after the detailed discussion with the constituents of Eastern Region in the meeting on finalization of draft Load Generation Balance Report (LGBR) for the year 2019-20, which was held at ERPC, Kolkata on 18.12.2018.

The following consideration have been made during preparation of the report:

- (i) Coordinated Annual Maintenance Programme of thermal generating units in Eastern Region as per the deliberation in LGBR meeting held on 18.12.2018
- (ii) Month wise peak demand and energy requirement of ER constituents based on past trend, expected growth and discussion with respective utilities in the LGBR meeting on 18.12.2018.
- (iii) Energy availability from new thermal units which are expected to be commissioned in 2019-20 has been considered as per the figures received from Constituents.
- (iv) The final LGBR for the year 2019-20 will be published after the receipt of Annual generation target from CEA/ MoP.

Yours faithfully,


(J.Bandyopadhyay)

Member Secretary

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50. The Executive Director & CEO, Powerlinks Transmission Limited, 10th Floor, DLF Tower – A, District Centre – Jasola, New Delhi – 110025.

ERPC:: Kolkata

Minutes of the Meeting on LGBR of ER held at ERPC on 18.12.2018

The list of Participants is enclosed at **Annexure -I**.

Member Secretary, ERPC welcomed the participants. In his opening remarks, he mentioned that preparation of LGBR for the coming year (2019-20) is an important planning process in which entire operational performance is dependent so as to match the generation availability in ER with respect to growing load demand. Moreover, CERC is going to introduce stringent measures in the DSM amendment regulation to be effective from 01.01.2019 onwards. Any deviation of scheduled drawl / generation against their actual on the part of Grid player would attract high cost of power, hence unnecessary burden to the customer should be avoided. Constituents also raised concerns for any deferment of scheduled maintenance of thermal units particularly from Central Sector. This forced them to absorb higher cost of power from IEX etc.. Therefore, final maintenance schedule should be strictly adhered to. He then requested Executive Director, ERLDC to give his views on operational aspects.

Executive Director, ERLDC, in his brief statement, reminded that LGBR document would be realistic if inputs from the constituents regarding assessment of expected demand, Units maintenances schedule and corresponding generation availability from the different sources are ensured.

Member Secretary, ERPC thereafter requested Shri P.K.De, EE and Shri S.M.Jha, Consultant, ERPC to take up the agenda points for discussions:

Shri S.M.Jha & Shri P.K.De thanked the constituents for providing the necessary data for the preparation of LGBR in time.

Item No. 1 DETAILS OF PROPOSED UNITWISE MAINTENANCE PROGRAMME OF THERMAL GENERATING UNITS IN ER

The proposals of thermal units maintenances plan for each of the months indicated in the agenda at Annexure – I was taken up for deliberation. It was mentioned that most of the units outage proposals have been in the month of April (around 3000 MW) when there would be higher demand for power/energy in the Constituents Systems due to onset of summer loads etc. On the other hand, when the regional demand is less particularly during November, 2019 to February, 2020, outage proposals are less (around 1200 MW) which contradicts the basic principle of LGBR.

However, constituents in their opinion, expressed that the shutdown of thermal units shall be allowed as per the demand profile of the ER grid. Hence, the shutdown of units shall be deferred to wherever possible during lean demand period i.e. during November, 2019 to February, 2020.

ERPC Secretariat proposed that since the quantum of outage (MW) on monthly basis varied in between 1200 MW to 3000 MW, it is desired that minimum outage (within 1200 MW) should be considered during April, 2019 to June, 2019 (high demand period), increase the quantum of outage with the availability of hydro from mid of June, 2019 to October, 2019. Thereafter, during November, 2019 to February, 2020, the major outage programme would be increased upto 3000 MW, so that generation availability would follow the demand profile of ER. Accordingly, the following major thermal units shutdown were deferred from summer months considering strong reservations by a no. of distribution utilities, which have their major share:

NTPC BarhSTPS U#4(660MW)(01.03.19 to 04.05.19) to **01.11.19 to 04.01.20 (65 days continuous)**
 NTPC BarhSTPS U#5 (660MW)(01.03.20 to 04.05.20) to **15.01.20 to 19.03.20 (65 days continuous)**
 NTPC FSTPS U#6(500 MW)(01.06.19 to 05.07.19) to **01.11.19 to 05.12.19 (35 days continuous)**
 NTPC TSTPS U#1 (500 MW)(22.07.19 to 25.08.19) to **01.12.19 to 04.01.20(35 days continuous)**
 DVC Koderma U#1(500 MW)(01.04.19 to 06.05.19 to **16.01.20 to19.02.20 (35 days continuous)**
 MPL Unit # 1 (525 MW) (25.05.19 to 07.06.19) to **01.11.19 to 14.11.19 (14 days continuous)**

Besides, the above revised outage programme, some of the NTPC units of Farakka, Kahalgaon STPS and Kolaghat & Santaldih TPS of WBPDCCL due to Boiler licence renewal were allowed to shift 10-15 days as per deliberations.

The maintenance schedule of thermal generating units in ER during 2019-20 as agreed and finalised in the LGBR meeting is shown in **Annexure-II**

**Item No. 2 ABSTRACT OF SYSTEMWISE UNRESTRICTED PEAK DEMAND (MW)
(Refer Annexure- III)**

The monthwise demand (MW) (unrestricted) of the constituents as projected considering the actual demands is being met during the current months, were analysed and corrected during the meeting. The demand forecast of the constituents and cumulative regional demand based on generation availability and diversity factor were worked out and assessed in the range of 21550 MW to 24820 MW. The regional monthly peak surplus or deficit taking into account of export to neighbour countries worked out to be in the range of 600 MW to 700 MW. However, Bihar and Jharkand states remained in deficit peak demand on monthly basis due to less generation availability from their own sources.

Item No. 3 ABSTRACT OF SYSTEMWISE UNRESTRICTED ENERGY REQUIREMENT (MU) (Refer Annexure-IV)

The expected monthly energy requirement (MU) of the constituents against energy availability indicated that, except Bihar and Jharkand states, most of the constituents would meet the energy requirement and there would be surplus of energy in ER on monthly basis. The energy availability from the new units of NTPC and constituents as indicated have been considered. This would lead to energy surplus in ER. The energy availability would vary in between 13800 to 16700 MU on monthly basis considering monthly scheduled maintenances of generating units.

Item No. 4 SCHEDULE OF COMMISSIONING OF NEW GENERATING UNITS IN THE CONSTITUENT SYSTEMS

The following units are expected to commission during 2019-20 and their energy availability (MU) have been taken into consideration as agreed by the constituents:

SYSTEM	THERMAL UNITS	CAPACITY(MW)	EXPECTED DATE COD
NTPC	DARLIPALLI # 1	800	01.04.2019
	DARLIPALLI #2	800	01.10.2019
BRBCL	NABINAGAR U#3	250	01.04.2019
ODISHA	IB TPS U# 3	660	01.04.2019
	IB TPS U#4	660	01.04.2019
BIHAR	BARUNI U#8	250	01.07.2019
TOTAL		3420	

The final LGBR of ER would be subsequently prepared and published on receipt of Annual Generation Target from CEA/MOP.

The meeting ended with vote of thanks to the chair.

ERPC::KOLKATAATTENDANCE SHEETLOAD GENERATION BALANCE REPORT(LGBR) MEETING FOR THE YEAR 2019-20

VENUE: ERPC CONFERENCE ROOM, KOLKATA

TIME: 11:00 HRS

DATE: 18.12.2018 (TUESDAY)

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ERPC:KOLKATA

Proposed Maintenance Schedule of Thermal Generating Units of ER during 2019-20
(as finalised in LGBR meeting dated 18.12.2018)

System	Station	Unit	Capacity (MW)	Period		No. of Days	Reason
				From	To		
Jharkhand	TVNL, Tenughat	1	210	15.07.19	10.08.19	27	Annual Overhauling
		2	210	12.08.19	08.09.19	28	Annual Overhauling
DVC	MTPS	1	210	11.12.19	15.01.20	36	COH (Blr,Turb-RLA,Gen.)
		2	210	29.10.19	03.12.19	36	COH (Blr-RLA,Turb-RLA,Gen.)
		3	210	25.06.19	30.07.19	36	COH (Blr-RLA,Turb-RLA,Gen.)
		7	500	14.05.19	18.06.19	36	COH (Blr,Turb,Gen.)
		8	250	22.02.20	28.03.20	36	COH (Blr,Turb,Gen.)
	DSTPS	1	500	16.08.19	20.09.19	36	COH (Blr,Turb,Gen.)
	KTPS	1	500	16.01.20	19.02.20	35	COH (Blr,Turb,Gen.)
ODISHA	TTPS	1	60	01.02.20	15.02.20	15	AOH
		2	60	25.06.19	09.07.19	15	AOH
		3	60	20.07.19	03.08.19	15	AOH
		4	60	13.08.19	27.08.19	15	AOH
		5	110	09.09.19	28.09.19	20	AOH
		6	110	09.10.19	28.10.19	20	AOH
	IB TPS	1	210	11.07.19	31.07.19	21	AOH
		2	210	06.06.19	30.06.19	25	AOH
		3	660	01.12.19	25.12.19	25	AOH
		4	660				NO MAINTENANCE
WBPDC	Kolaghat TPS	1	210	07.06.18	30.06.19	91	R&M
		2	210	01.08.19	31.03.20	122	R&M
		4	210	01.02.20	15.03.20	44	Capital Overhauling
		5	210	24.11.19	30.11.19	7	Boiler License renewal
		6	210	01.11.19	28.11.19	28	Boiler Overhauling
		1	210	16.11.19	05.12.19	20	Boiler Overhauling
	Bakreswar TPS	2	210	21.08.19	27.08.19	7	Boiler License renewal
		3	210	01.11.19	07.11.19	7	Boiler License renewal
		4	210	01.07.19	07.07.19	7	Boiler License renewal
		4	210	01.01.20	07.02.20	38	COH
	Bandel TPS	5	210	24.06.19	30.06.19	7	Boiler License renewal
		1	60	16.06.19	14.08.19	60	Capital Overhauling
		2	60	25.12.19	31.12.19	15	Boiler License renewal
		5	210	12.11.19	18.11.19	7	Boiler License renewal
	Santalidih TPS	5	250	01.11.19	05.12.19	35	Capital Overhauling
		6	250	15.09.19	21.09.19	7	Boiler License renewal
		1	300	12.07.19	15.08.19	35	Capital Overhauling
	Sagarighi TPS	2	300	01.07.19	07.07.19	7	Boiler License renewal
		3	500	01.05.19	07.05.19	7	Boiler License renewal
		4	500	20.12.19	26.12.19	7	Boiler License renewal
1		250	10.11.19	14.11.19	4	Not Specified	
CESC	BUDGE-BUDGE	2	250	16.11.19	30.11.19	15	Not Specified
		3	250	02.12.19	19.12.19	18	Not Specified
		1	60	02.01.20	05.01.20	4	Not Specified
	TITAGARH	2	60	22.02.20	07.03.20	15	Not Specified
		3	60	12.12.19	26.12.19	15	Not Specified
		4	60	27.12.19	30.12.2019	4	Not Specified
	SOUTHERN	1	67.5	01.01.20	15.01.20	15	Not Specified
		2	67.5	17.01.20	20.01.20	4	Not Specified
HEL	HALDIA	1	300	21.12.19	03.02.20	45	AOH
		2	300				NO MAINTENANCE
DPL	DPPS	7	300	17.08.19	31.08.19	15	Boiler License renewal & Maintenance of Boiler
		8	250	23.12.19	31.01.20	40	BTG OH
NTPC	FSTPP	1	200	01.09.19	25.09.19	25	AOH
		3	200	20.07.19	23.08.19	35	AOH
		4	500	11.03.20	05.04.20	26	AOH
		5	500	11.03.19	05.04.19	26	AOH
		6	500	01.11.19	05.12.19	35	AOH
		1	210	27.08.19	30.09.19	35	AOH
	KhSTPP	2	210	10.11.19	09.12.19	30	AOH
		4	210	25.07.19	23.08.19	30	AOH
		7	500	06.04.19	30.04.19	25	AOH
	Barh	4	660	01.11.19	04.01.20	65	Boiler Modification
		5	660	15.01.20	19.03.20	65	AOH
		1	500	01.12.19	04.01.20	35	AOH
		3	500	03.09.19	27.09.19	25	AOH
	TSTPS	4	500	21.06.19	15.07.19	25	AOH
3		195	15.11.19	20.12.19	35	LP rotor inspection,Boiler OH & Com.Modif/NOX	
4		195	01.03.19	04.04.19	35	LP rotor inspection,Boiler OH	
BRBCL	Nabinagar TPP	1	250	26.07.19	19.08.19	25	LP turbine inspection,Rotor threading,Generator inspection.
		2	250	16.04.19	30.04.19	15	Boiler and TG PG Test,Boiler License Renewal
		3	250				No planned maintenance
IPP	GMR	1	350	01.06.19	05.07.19	35	Turbine Overhauling
		2	350				No planned maintenance
		3	350				No planned maintenance
	JITPL	1	600	01.04.19	05.05.19		AOH
		2	600				No planned maintenance
	MPL	1	525	01.11.19	14.11.19	14	AOH
		2	525	06.04.19	03.05.19	28	AOH
	APNRL	1	270				No planned maintenance
2		270				No planned maintenance	

Notes:

1) Considering the Secondary School Exam., on- set of summer load and expected Lok Sabha election , NTPC was requested to defer/prepone their S/D proposal of FSTPS U#4 & 5 to after festival month / to winter months as convenient to NTPC. But NTPC did not agreed to that and they opined that due to water sharing agreement with Bangladesh in the month of March & April ,water availability would be less and they would be compelled to take shut down the units during that period. In such a situation NTPC would be allowed to take opportunity shut down during that period. However, Constituents did not agreed to that.

2) Also NTPC did not agree the shut down programme of Barh STPS unit#4&5(660 MW each) due to mobilization/ tie up with agency for major boiler modification. but the LGBR Committee decided the above S/D as per Grid load pattern/ requirement.

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE PEAK DEMAND- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2019 TO MARCH-2020**

(ALL FIGURES IN MW & NET)

SL.NO	PARTICULARS	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
1	BIHAR												
i)	NET MAX DEMAND	4850	5000	5100	5180	5130	5250	5300	4875	4800	5300	5055	5350
ii)	NET POWER AVAILABILITY- Own+KBUNL+BRBCL	311	316	332	517	519	520	427	412	406	422	427	419
	Central Sector+Bi-Lateral	3532	3596	3634	3590	3506	3507	3707	2967	2832	3269	3207	3294
iii)	SURPLUS(+)/DEFICIT(-)	-1007	-1088	-1134	-1073	-1105	-1224	-1166	-1496	-1561	-1609	-1420	-1638
2	JHARKHAND												
i)	NET MAX DEMAND	1410	1400	1340	1340	1380	1430	1390	1410	1440	1440	1370	1360
ii)	NET POWER AVAILABILITY- Own Source	321	341	341	305	242	346	386	341	341	341	341	341
	Central Sector+Bi-Lateral+KBUNL	886	904	930	924	915	915	989	840	834	902	922	919
iii)	SURPLUS(+)/DEFICIT(-)	-203	-155	-69	-111	-223	-169	-15	-229	-265	-197	-107	-100
3	DVC												
i)	NET MAX DEMAND (OWN)	3000	2980	2960	2930	2885	2820	2900	2925	3000	3135	3045	3055
ii)	NET POWER AVAILABILITY- OWN SOURCE	5475	5247	5207	5401	5358	5299	5544	5311	5348	5193	5165	5298
	- Central Sector+MPL+KBUNL	507	552	561	546	515	561	561	521	517	519	543	545
	BI-LATERAL EXPORT BY DVC	1675	1772	1731	1644	1416	1467	1241	1446	1684	1671	1825	1765
iii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	1307	1048	1077	1373	1572	1572	1964	1460	1181	907	838	1023
4	ODISHA												
i)	NET MAX DEMAND	4445	5075	4780	4620	5075	5035	5250	4610	4975	4950	4930	5235
ii)	NET POWER AVAILABILITY- OWN+IPP+CPP	3843	3913	3589	3628	4167	4079	3736	3778	3492	3673	3690	3848
	- Central Sector+KBUNL	1635	1658	1649	1626	1618	1575	2027	1826	1706	1893	1932	1923
iii)	SURPLUS(+)/DEFICIT(-)	1033	495	459	634	710	620	512	993	224	616	692	536
5	WEST BENGAL												
5.1	WBSEDCL												
i)	NET MAX DEMAND (OWN)	6875	6800	6710	7290	6910	7030	7080	5770	5795	5910	6370	7735
ii)	IPCL DEMAND	85	86	84	83	83	83	83	81	79	79	82	84
iii)	TOTAL WBSEDCL'S DEMAND (incl.B'Desh+Sikkim+IPCL)	7165	7091	7004	7583	7203	7323	7373	6061	6084	5994	6457	7824
iv)	NET POWER AVAILABILITY- Own Source	3740	3690	3480	3456	3214	3373	3577	3255	3610	3375	3449	3632
	- Import from DPL	170	155	160	160	68	165	185	195	139	9	185	175
	- Central Sector+Bi-lateral+IPP+CPP+TLDP+IPCL	2400	2428	2543	2508	2499	2358	2634	2223	2236	2309	2458	2463
v)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	-855	-819	-821	-1460	-1422	-1428	-977	-388	-98	-301	-365	-1554
vi)	EXPORT (TO B'DESH & SIKKIM)	205	205	210	210	210	210	210	210	210	5	5	5
5.2	DPL												
i)	NET MAX DEMAND	295	310	305	305	295	300	280	270	275	280	280	290
ii)	NET POWER AVAILABILITY	465	465	465	465	363	465	465	465	414	289	465	465
iii)	SURPLUS(+)/DEFICIT(-)	170	155	160	160	68	165	185	195	139	9	185	175
5.3	CESC												
i)	NET MAX DEMAND	2100	2250	2260	1850	1900	2050	2030	1700	1520	1450	1680	1850
ii)	NET POWER AVAILABILITY - OWN SOURCE	750	750	750	750	750	750	750	700	460	700	700	750
	IMPORT FROM OTHER SOURCE	810	960	970	560	610	760	740	460	520	482	440	560
	IMPORT FROM HALDIA ENERGY LTD.	540	540	540	540	540	540	540	540	540	268	540	540
iii)	TOTAL AVAILABILITY	2100	2250	2260	1850	1900	2050	2030	1700	1520	1450	1680	1850
iv)	SURPLUS(+)/DEFICIT(-)	0	0	0	0	0	0	0	0	0	0	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC+IPCL) (excluding DVC's supply to WBSEDCL's command area)												
i)	NET MAX DEMAND OWN (Excl. Export)	9355	9446	9359	9528	9188	9463	9473	7821	7669	7719	8412	9959
ii)	NET POWER AVAILABILITY- Own Source	4955	4905	4695	4671	4327	4588	4792	4420	4484	4364	4614	4847
iii)	CS SHARE+BILETARAL+IPP/PPP+TLDP+HEL	3750	3928	4053	3608	3649	3658	3914	3223	3296	3059	3438	3563
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP.	-650	-614	-611	-1250	-1212	-1218	-767	-178	112	-296	-360	-1549
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	-855	-819	-821	-1460	-1422	-1428	-977	-388	-98	-301	-365	-1554
7	SIKKIM												
i)	NET MAX DEMAND	100	100	95	90	95	95	105	125	125	125	120	110
ii)	NET POWER AVAILABILITY- Own Source	8	8	8	8	8	8	8	4	2	2	2	2
	- Central Sector	169	171	171	170	167	167	183	172	136	149	172	173
iii)	SURPLUS(+)/DEFICIT(-)	77	80	84	89	80	80	86	51	13	26	55	65
8	EASTERN REGION												
	At 1.03 AS DIVERSITY FACTOR												
i)	NET MAX DEMAND	22931	23763	23400	23454	23517	23855	24176	21551	21790	22444	22703	24820
ii)	BI-LATERAL EXPORT BY DVC	1675	1772	1731	1644	1416	1467	1241	1446	1684	1671	1825	1765
iii)	EXPORT BY WBSEDCL	205	205	210	210	210	210	210	210	210	5	5	5
iv)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+CPP+HEL)	25392	25540	25171	24995	24991	25222	26273	23815	23396	23787	24453	25171
v)	PEAK SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii)	581	-200	-170	-313	-152	-310	645	607	-289	-333	-80	-1419

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE ENERGY REQUIREMENT- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2019 TO MARCH-2020**

(ALL FIGURES IN MU & NET)

SL.NO	PARTICULARS	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	TOTAL 2019-20
1	BIHAR													
i)	NET ENERGY REQUIREMENT	2600	2800	2880	2950	3050	2985	2850	2350	2500	2810	2380	2860	33015
ii)	NET ENERGY AVAILABILITY- Own	207	171	175	251	252	244	245	270	278	240	235	240	2808
iii)	Central Sector+Bi-Lateral	2067	2239	2236	2414	2359	2265	2368	1740	1713	1988	1749	1971	25108
iv)	SURPLUS(+)/DEFICIT(-)	-326	-390	-469	-285	-440	-476	-238	-340	-509	-582	-396	-649	-5099
2	JHARKHAND													
i)	NET ENERGY REQUIREMENT	810	825	820	825	810	800	810	800	810	820	770	830	9730
ii)	NET ENERGY AVAILABILITY- Own Source	237	237	213	214	200	259	254	240	235	236	231	221	2777
iii)	Central Sector+Bi-Lateral+KBUNL	502	542	553	601	594	572	610	467	488	527	474	521	6450
iv)	SURPLUS(+)/DEFICIT(-)	-71	-45	-54	-9	-16	31	53	-93	-87	-58	-65	-88	-503
3	DVC													
i)	NET ENERGY REQUIREMENT (OWN)	1880	1960	1915	1970	1890	1785	1875	1870	1885	1890	1710	1890	22520
ii)	NET ENERGY AVAILABILITY- OWN SOURCE	3305	3254	3144	3347	3329	3175	3437	3213	3344	3131	2896	3297	38873
iii)	Central Sector+MPL+KBUNL	263	316	333	383	361	374	351	267	269	268	242	270	3697
iv)	Bi- lateral export by DVC	1206	1318	1246	1223	1053	1056	923	1041	1253	1243	1227	1313	14102
v)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	482	292	317	537	747	707	991	570	475	266	200	364	5948
4	ODISHA													
i)	NET ENERGY REQUIREMENT	2660	2944.8	2905	2684.68	3225.2	2989.6	3285.3	2834.6	2529.6	2705	2500	2910	34174
ii)	NET ENERGY AVAILABILITY- OWN+IPP+CPP	2371	2498	2047	2309	2608	2447	2305	2213	1740	2188	2057	2294	27078
iii)	Central Sector+KBUNL	987	1054	1033	1099	1091	1027	1331	1116	1093	1212	1121	1210	13374
iv)	SURPLUS(+)/DEFICIT(-)	698	608	175	723	474	485	351	494	304	695	677	594	6279
5	WEST BENGAL													
5.1	WBSEDCL													
i)	WBSEDCL'S OWN REQUIREMENT	3630	3678	3837	3992	4102	3896	3481	2744	2704	2940	2963	3873	41840
ii)	SUPPLY TO IPCL	61	64	60	62	62	60	62	58	59	59	57	62	726
iii)	TOTAL WBSEDCL'S Energy Requirement (incl.B'Desh+Sikkim+IPCL)	3839	3895	4048	4210	4320	4107	3699	2953	2919	3003	3023	3939	43955
iv)	NET ENERGY AVAILABILITY- OWN SOURCE	2460	2477	2412	2497	2600	2467	2787	2173	2381	2653	2466	2745	30119
v)	Contribution from DPL	110	111	81	78	-9	67	95	114	23	23	79	109	882
vi)	Central Sector+Bi-lateral+IPP+CPP+TLDP	1300	1449	1559	1791	1773	1590	1635	1233	1269	1297	1216	1301	17411
vii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	32	142	4	155	43	17	818	568	753	970	738	216	4457
viii)	EXPORT (TO B'DESH & SIKKIM)	148	153	151	156	156	151	156	151	156	4	3	4	1389
5.2	DPL													
i)	NET ENERGY REQUIREMENT	200	210	210	210	212	205	200	190	195	195	190	205	2422
ii)	NET ENERGY AVAILABILITY	310	321	291	288	203	272	295	304	218	218	269	314	3304
iii)	SURPLUS(+)/DEFICIT(-)	110	111	81	78	-9	67	95	114	23	23	79	109	882
5.3	CESC													
i)	NET ENERGY REQUIREMENT	980	1103	1105	1070	1060	1080	985	775	713	703	720	972	11266
ii)	NET ENERGY AVAILABILITY - Own Source	498	536	525	510	508	507	499	364	363	452	420	483	5665
iii)	FROM OTHER SOURCE (INCL. IPP/CPP-29-30 MU/M)	115	176	197	172	166	194	118	100	92	96	50	125	1601
iv)	FROM HEL	367	391	383	388	386	379	368	311	258	155	250	364	4000
v)	TOTAL AVAILABILITY OF CESC	980	1103	1105	1070	1060	1080	985	775	713	703	720	972	11266
vi)	SURPLUS(+)/DEFICIT(-)	0	0	0	0	0	0	0	0	0	0	0	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)													
i)	NET ENERGY REQUIREMENT	4871	5055	5212	5334	5436	5241	4728	3767	3671	3897	3930	5112	56254
ii)	NET POWER AVAILABILITY- Own Source	3269	3334	3228	3295	3311	3246	3581	2841	2961	3323	3155	3542	39087
iii)	CS SHARE+BILATERAL+IPP/CPP+TLDP+HEL	1782	2016	2139	2351	2325	2163	2121	1644	1619	1548	1516	1790	23012
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP.	180	295	155	311	199	168	974	719	909	974	741	220	5846
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	32	142	4	155	43	17	818	568	753	970	738	216	4457
7	SIKKIM													
i)	NET ENERGY REQUIREMENT	50	45	45	46	44	44	48	61	61	62	63	56	624
ii)	NET POWER AVAILABILITY- Own Source	3	3	3	3	3	3	3	1	1	1	1	2	27
	- Central Sector+KBUNL	83	99	107	118	114	113	112	82	70	75	68	78	1119
iii)	SURPLUS(+)/DEFICIT(-)	36	57	64	74	73	72	66	22	11	15	6	24	522
8	EASTERN REGION													
i)	NET ENERGY REQUIREMENT OF ER	12870	13630	13777	13810	14456	13844	13596	11682	11456	12184	11353	13658	156316
ii)	BILATERAL EXPORT BY DVC	1206	1318	1246	1223	1053	1056	923	1041	1253	1243	1227	1313	14102
iii)	EXPORT BY WBSEDCL	148	153	151	156	156	151	156	151	156	4	3	4	1389
iv)	NET TOTAL ENERGY AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+IPP/CPP+HEL)	15076	15765	15212	16384	16547	15888	16717	14095	13812	14737	13743	15436	183412
v)	ENERGY SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii)	851	664	38	1195	882	836	2042	1222	947	1306	1161	461	11605