



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति
EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट
**PROGRESS REPORT FOR THE MONTH
OF
अगस्त - 2018
AUGUST - 2018**

पूर्वी क्षेत्रीय विद्युत समिति
Eastern Regional Power Committee
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Highlights of Eastern Regional Power System for August-2018

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **July, 2018** was **22580 MW** which is 17.47% more than the **Aug, 2017** (19221 MW). Individual **Peak Demand (MW)** of majority constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **August, 2018** was **446.36 MU** excluding export, which is 13.96% more than the corresponding period of last year (391.68 MU).
- **The Average regional PLF of thermal units 60.23% during the month**, which is 4.53% more than the corresponding period of the last year (**55.70%**).
- **CESC (Budge- Budge)** registered the highest **PLF of 100.51 %**, followed by HEL 96.15, DVC, (CTPS U#7 &8), 95.12% and, NTPC (TTPS) 86.69% during the month of **August, 2018**.
- **Maximum Net generation** of ER was **21385 MW** against total **Effective Capacity of 35443 MW** (including import from Bhutan). At the time of Regional peak (22580 MW on 23.08.2018 at 21.00 hrs.) the generation was 22595 MW and import from CPP was 796 MW, Net export was 811 MW.
- The system frequency in the recommended band (49.9 Hz to 50.05 Hz) remained for 80.44% of time during the month. **Average frequency** for the month was **49.97 Hz**. The instantaneous maximum and the minimum frequency touched were 50.26 Hz and 49.62 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.13 Hz** and **49.71 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **421 KV** at Maithon 400 **KV S/s** whereas the minimum voltage recorded 372 KV at Jeerat 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 6422 MW (including Nepal and Bangladesh) on 4th August, 2018 at 10:00 hrs. Total net energy export during the month was 1408 MU which corresponds to 9.6 % of ex-bus total generation (14663 MU) of Eastern Region.**
- **The import from CPPs was 581.8 MU during the month.**
- **Export(+)/Import(-) during the month:**

	Max. Export of Power ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy inc.Trasmission loss(MU)
NR	4008	0	1942.78
WR	0	4357	-2083.04
SR	2643	350	566.44
NER	2338	490	528.64
BANGLADESH	512	0	370.92
NEPAL	206	0	82.23
Total(Net)	4144	0	1408
NEPAL by Bihar(NBPDCL)			97.6

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Aug-18	Aug-2017	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	27205	28855	-1650	-5.72
	HYDRO (MW)	5876	\$ 5754	122	2
	DIESEL (MW)	0	7	-7	0
	RES (MW)	886	10	0	0
	TOTAL (MW)	33967	34626	-659	-1.90
2)	Peak Demand (MW)	22794	19514	3280	16.81
3)	Peak Demand Met (MW)	22580	19221	3359	17.47
4)	Shortage (MW)	215	293	-78	-26.72
5)	% Shortage	0.94	1.50	-0.56	-37.21
6)	Average Energy Requirement Per Day (MU)	449.17	393.69	55.48	14.09
7)	Average Energy Availability Per Day (MU)	446.36	391.68	54.68	13.96
8)	Average Shortage Per Day (MU)	2.81	2.01	0.80	39.69
9)	% Shortage	0.63	0.51	0.12	22.57
10)	Net Generation for the Month				
	Thermal (MU)	11236.38	11006.33	230.05	2.09
	Hydro (MU)	3398.11	* 3109.24	288.87	9.29
	RES (MU)	28.35	0.00	0.00	-
	Total (MU)	14662.83	14115.57	547.26	3.88
11)	Generation at the Time of Max. Regional Demand Met (23-08-18 at 21.00 Hrs.)				
	Thermal (MW)	16483	14858	1625	10.93
	Hydro (MW)	6060	* 4971	1089	21.92
	Diesel (MW)	0	0	0	-
	Total (MW)	22595	19829	2766	13.95
12)	Inter-Regional Energy Transfer				
	Export (MU)	3491.03	3437.43	53.60	1.56
	Import (MU)	2083.04	886.50	1196.54	134.97
	Net Exp.(+)/Net Imp.(-) (MU)	1408.00	2550.93	-1142.93	-44.80
13)	Import From Captive(MU)	581.77	677.88	-96.11	-14.18
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 04-08-18 at 10.00Hrs	6422	5587	835	14.94
	Max Import (MW) on 26-08-18 at 22.00Hrs	4357	2626	1731	65.94
	Max Net Export(+)/Import (-) (MW)	4144	5407	-1263	-23.36
15)	Maximum voltage recorded	421	MAITHON	400 kv	s/s
16)	Minimum voltage recorded	372	JEERAT	400 kv	s/s

\$ Excludes 1566 MW contribution from HEPs of Bhutan

* Includes contribution from HEP of Bhutan (Chukha, Kurichhu & Tala)

POWER SUPPLY POSITION FOR THE MONTH OF

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	93.52	94.09	0.56	0.60
JUVNL	24.08	24.19	0.11	0.45
DVC	59.77	61.44	1.67	2.71
ODISHA	102.03	102.12	0.10	0.09
WBSEDCL	126.03	126.60	0.56	0.45
CESC	33.68	33.71	0.03	0.09
DPL	5.83	5.84	0.01	0.09
SIKKIM	1.28	1.28	0.00	0.09
REGION	446.36	449.27	2.91	0.65

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4876	4899	23	0.48
JUVNL	1287	1292	5	0.41
DVC	2827	2832	6	0.20
ODISHA	5434	5451	17	0.31
WBSEDCL	6643	6666	22	0.33
CESC	1832	1840	8	0.4
DPL	275	275	1	0.20
SIKKIM	85	85	0	0.00
REGION	22580	22794	215	1

➤ **DIVERSITY FACTOR** **1.03**

➤ **Regional Peak Demand Met on 23-8-2018 at 21.00 hrs. at 49.91 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA AUGUST-18

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from	Exchange from Grid	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	RES (Hy+Solar)	Total	Captive (MU)	Net Import(+) Net Export(-)	Consump. (MU)	Cons.(MU)	Demand Met (MW)	Demand Met (MW)
BSPHCL	0.00	21.95	15.09	37.04	0.00	3.74	0.00	3.74	0.00	18.21	15.09	33.30	0.00	2864.23	2897.53	93.47	4876	4876
JUVNL	29.00	87.18	0.00	116.18	0.00	12.13	0.00	12.13	29.00	75.05	0.00	104.05	47.83	594.27	746.16	24.07	1287	1308
DVC	42.30	2736.50	0.00	2778.80	0.23	202.22	0.00	202.46	42.06	2534.28	0.00	2576.34	20.40	-743.78	1852.96	59.77	2827	3128
ODISHA(OPGC+OHPC+TTPS)	661.32	523.03	8.93	1193.28	5.00	58.48	0.00	63.48	656.32	464.55	8.93	1129.80	399.78	1633.06	3162.64	102.02	5434	5532
WBPDC+WBSEDCL	198.87	1862.02	0.00	2060.89	0.00	182.18	0.00	182.18	198.87	1679.83	0.00	1878.71	113.77	1914.45	3906.93	126.03	6643	6975
DPL	0.00	134.76	0.49	135.25	0.00	14.87	0.00	14.87	0.00	119.89	0.49	120.38	0.00	60.84	181.21	5.85	275	291
CESC	0.00	586.80	0.00	586.80	0.00	44.96	0.00	44.96	0.00	541.84	0.00	541.84	0.00	502.14	1043.98	33.68	1832	1903
HEL	0.00	429.20	0.00	429.20	0.00	32.76	0.00	32.76	0.00	396.44	0.00	396.44	0.00	-396.44				
SIKKIM	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	36.76	39.76	1.28	85	85
NTPC	0.00	4331.94	0.00	4331.94	0.00	300.05	0.00	300.05	0.00	4031.88	0.00	4031.88	0.00	-4031.88				
BRBCL	0.00	109.13	0.00	109.13	0.00	11.31	0.00	11.31	0.00	97.82	0.00	97.82	0.00	-97.82				
MPL	0.00	590.02	0.00	590.02	0.00	35.77	0.00	35.77	0.00	554.25	0.00	554.25	0.00	-554.25				
APNRL	0.00	197.57	0.00	197.57	0.00	16.13	0.00	16.13	0.00	181.44	0.00	181.44	0.00	-181.44				
GMR	0.00	281.23	0.00	281.23	0.00	16.17	0.00	16.17	0.00	265.06	0.00	265.06	0.00	-265.06				
JITPL	0.00	298.84	0.00	298.84	0.00	23.10	0.00	23.10	0.00	275.74	0.00	275.74	0.00	-275.74				
NHPC (Inc TLDP= 206.028 MU)	620.18	0.00	0.00	620.18	0.00	0.00	0.00	0.00	620.18	0.00	0.00	620.18	0.00	-620.18				
CHPC(Birpara Receipt)	285.37	0.00	0.00	285.37	0.00	0.00	0.00	0.00	285.37	0.00	0.00	285.37	0.00	-285.37				
KHPS	71.28	0.00	0.00	71.28	0.00	0.00	0.00	0.00	71.28	0.00	0.00	71.28	0.00	-71.28				
THPS	612.18	0.00	0.00	612.18	0.00	0.00	0.00	0.00	612.18	0.00	0.00	612.18	0.00	-612.18				
DAGACHU HPS	81.60	0.00	0.00	81.60	0.00	0.00	0.00	0.00	81.60	0.00	0.00	81.60	0.00	-81.60				
CHUZACHEN HPS	66.27	0.00	0.00	66.27	0.00	0.00	0.00	0.00	66.27	0.00	0.00	66.27	0.00	-66.27				
JORHANG HPS	67.83	0.00	0.00	67.83	0.00	0.00	0.00	0.00	67.83	0.00	0.00	67.83	0.00	-67.83				
TEESTA-III HPS	529.24	0.00	0.00	529.24	0.00	0.00	0.00	0.00	529.24	0.00	0.00	529.24	0.00	-529.24				
DIKCHU HPS	68.72	0.00	0.00	68.72	0.00	0.00	0.00	0.00	68.72	0.00	0.00	68.72	0.00	-68.72				
TASHIDING HPS	69.86	0.00	0.00	69.86	0.00	0.00	0.00	0.00	69.86	0.00	0.00	69.86	0.00	-69.86				
TALCHER SOLAR	0.00	0.00	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.00	-0.84				
Total Drawal by HVDC Sahsaram,Alipurduar,BRBCL,Indbharat and OPGC															5.94	5.94		
Total	3404.03	12190.16	28.35	15622.55	5.24	953.88	0.00	959.12	3398.80	11236.28	28.35	14663.43	581.79	-1408.10	13837.12	446.36	22580	23306

13837.12

POWER SUPPLY POSITION IN EASTERN REGION DURING THE YEAR AS COMPARED TO PREVIOUS YEAR

A) Net Average Energy

Month	2017-18					2018-19				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)
APRIL	394.05	397.91	3.86	0.97	49.98	393.59	396.98	3.39	0.85	49.96
MAY	389.99	394.80	4.81	1.22	49.98	420.52	425.36	4.84	1.14	49.94
JUNE	398.64	401.43	2.79	0.70	49.99	437.39	441.13	3.74	0.85	49.97
JULY	381.05	383.05	2.00	0.52	49.98	425.68	427.31	1.63	0.38	49.97
AUGUST	394.80	396.81	2.01	0.51	49.98	446.36	449.17	2.81	0.63	49.97
SEPTEMBER	418.67	420.99	2.32	0.55	49.97	-	-	-	-	-
OCTOBER	390.86	393.65	2.79	0.71	49.96	-	-	-	-	-
NOVEMBER	332.17	336.69	4.53	1.34	49.96	-	-	-	-	-
DECEMBER	329.55	331.98	2.43	0.73	49.98	-	-	-	-	-
JANUARY	353.94	356.68	2.74	0.77	49.98	-	-	-	-	-
FEBRUARY	361.36	364.11	2.75	0.76	49.98	-	-	-	-	-
MARCH	393.97	396.42	2.45	0.62	49.97	-	-	-	-	-

B) Peak in MW:

Month	2017-18					2018-19				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(HZ)
APRIL	19164	19387	224	1.15	49.98	21058	21128	70	0.33	49.96
MAY	19509	19664	155	0.79	49.98	21902	22012	111	0.50	49.94
JUNE	18994	19047	53	0.28	49.99	22080	22964	884	3.85	49.97
JULY	19110	19200	91	0.47	49.98	21790	21849	59	0.27	49.97
AUGUST	19221	19514	293	1.50	49.98	22580	22794	215	0.94	49.97
SEPTEMBER	20283	20670	387	1.87	49.97	-	-	-	-	-
OCTOBER	19882	19966	84	0.42	49.96	-	-	-	-	-
NOVEMBER	18377	18866	489	2.66	49.96	-	-	-	-	-
DECEMBER	17837	18195	358	2.01	49.98	-	-	-	-	-
JANUARY	18238	18508	270	1.48	49.98	-	-	-	-	-
FEBRUARY	18918	19196	278	1.47	49.98	-	-	-	-	-
MARCH	20567	20951	384	1.87	49.97	-	-	-	-	-

	FROM	Cumulative from	01-Apr-18	to	31/Aug/18	During August-18					
		ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID	ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID
BSPHCL	FARAKKA STPS I	1338.72	1246.00				283.13	267.18			
	FARAKKA STPS III	412.10	375.28				86.12	79.60			
	KAHALGAON STPS I	1051.90	911.99				216.53	194.27			
	KAHALGAON STPS II	221.30	235.61				51.92	58.85			
	TALCHER STPS I	1238.84	1232.31				230.87	230.87			
	MTPS-II	646.35	612.45				164.26	154.63			
	BRBCL	70.06	64.79				10.16	10.17			
	Riy BRBCL	58.01	51.00				13.86	12.87			
	BARH STPS II	3206.36	2970.38				633.57	598.26			
	RANGIT HEP	58.99	175.76				15.01	15.01			
	CHUKHA HEP	171.78	282.08				57.02	93.17			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	540.41	447.68				196.04	165.94			
	TEESTA HEP	313.70	313.70				77.71	77.71			
	TOTAL	9328.53	8919.02	4378.20	13025.26	12972.07	2036.20	1958.53	879.27	2789.59	2809.69
JUVNL	FARAKKA STPS I	365.58	325.69				77.34	74.52			
	FARAKKA STPS III	261.38	187.26				55.30	43.09			
	KAHALGAON STPS I	80.44	88.34				16.57	16.68			
	KAHALGAON STPS II	55.49	81.33				13.02	15.54			
	TALCHER STPS I	230.31	226.56				42.94	42.97			
	MTPS-II	29.59	30.85				7.52	7.52			
	BARH STPS II	298.56	258.42				59.00	56.43			
	RANGIT HEP	22.48	22.48				5.72	5.72			
	CHUKHA HEP	62.27	102.24				20.67	33.77			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	242.87	191.20				88.10	74.58			
	TEESTA HEP	182.08	182.08				45.11	45.11			
	TOTAL	1831.05	1696.44	695.88	2678.04	2752.62	431.29	415.93	98.95	567.21	582.95
DVC	FARAKKA STPS I	16.79	0.00				0.00	0.00			
	FARAKKA STPS III	82.14	97.79				20.75	22.58			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	1.84	0.00				0.00	0.00			
	TALCHER STPS I	9.92	8.90				1.74	1.72			
	MTPS-II	51.07	21.84				5.70	5.65			
	BRBCL	141.98	153.25				20.79	22.63			
	RANGIT HEP	24.92	16.86				4.29	4.29			
	CHUKHA HEP	57.17	98.73				19.96	32.61			
	KIRUCHHU HEP	40.56	23.21				6.63	5.88			
	TALA HPS	126.54	97.26				42.59	36.05			
	TEESTA HEP	225.20	127.49				31.58	31.58			
	TOTAL	650.73	645.32	-6559.68	-5982.45	-5754.94	154.03	162.99	-1032.26	-880.46	-743.78
GRIDCO	FARAKKA STPS I	604.74	613.29				127.91	125.77			
	FARAKKA STPS III	266.77	259.00				55.95	52.87			
	KAHALGAON STPS I	396.44	390.56				81.61	78.52			
	KAHALGAON STPS II	116.45	183.10				27.32	35.59			
	TALCHER STPS (Stg-I)	975.86	968.79				181.06	181.06			
	TALCHER STPS (Stg-II)	0.00	0.00				0.00	0.00			
	MTPS-II	73.51	8.96				18.68	1.05			
	BARH STPS II	619.29	556.83				122.37	122.50			
	RANGIT HEP	0.00	0.00				0.00	0.00			
	CHUKHA HEP	127.36	144.60				29.23	47.76			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	90.07	83.01				32.67	27.66			
	TEESTA HEP	303.81	303.81				75.26	75.26			
	TOTAL	3574.31	3511.96	2293.31	5887.38	6370.90	752.06	748.04	680.57	1499.30	1601.97
WBSIEDCL	FARAKKA STPS I	1341.32	1277.43				283.70	275.55			
	FARAKKA STPS III	500.85	453.83				105.05	98.95			
	KAHALGAON STPS I	23.09	26.41				4.75	6.15			
	KAHALGAON STPS II	40.85	54.37				9.58	9.49			
	TALCHER STPS I	300.95	290.25				56.09	55.74			
	MTPS-II	83.06	67.93				21.11	18.03			
	RANGIT HEP	47.77	45.63				12.15	12.15			
	CHUKHA HEP	184.65	303.21				61.30	100.15			
	KIRUCHHU HEP	10.62	23.21				6.63	5.88			
	TALA HPS	810.62	350.14				294.06	148.91			
	TEESTA HEP	353.84	353.84				87.65	87.65			
	TOTAL	3697.61	3246.23	3652.22	7139.63	7519.00	942.07	818.65	855.79	1715.96	1839.26
SIKKIM	FARAKKA STPS I	69.49	62.21				14.70	11.48			
	FARAKKA STPS III	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	38.95	38.15				8.02	7.75			
	KAHALGAON STPS II	14.67	14.58				3.44	3.38			
	TALCHER STPS I	72.08	72.08				13.43	13.43			
	MTPS-II	4.78	4.74				1.21	1.21			
	BARH STPS II	55.57	52.60				10.98	10.26			
	RANGIT HEP	22.48	22.48				5.72	5.72			
	CHUKHA HEP	12.87	21.13				4.27	6.98			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TEESTA HEP	194.62	194.62				48.21	48.21			
	TOTAL	485.51	482.58	-163.07	210.64	191.39	109.98	108.42	28.31	41.66	36.06
WR	FARAKKA STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	-1178.91	-1036.18				-276.58	-229.45			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BARH STPS II	0.00	0.00				0.00	0.00			
	BRBCL	-335.26	-268.13				-47.02	-43.96			
	TOTAL	-1514.17	-1304.31	1945.47	1655.56	6698.24	-323.60	-273.41	711.19	592.53	2083.04
SR	FARAKKA STPS I	-87.04	-62.63				-18.41	-6.40			
	FARAKKA STPS III	-11.41	-11.25				-2.39	-2.27			
	KAHALGAON STPS I	-34.73	-35.55				-7.15	-6.95			
	KAHALGAON STPS II	-33.92	-31.77				-7.96	-7.54			
	TALCHER STPS STG-I	-46.95	-46.41				-8.75	-8.60			
	MTPS-II	-2.40	-2.05				-0.61	-0.41			
	BARH STPS II	-28.46	-26.89				-5.62	-4.81			
NR	TOTAL	-244.91	-211.39	-1252.99	-46.92	-3010.55	-50.89	-36.98	-93.84	329.83	555.65
	FARAKKA STPS I	-302.30	-239.27				-63.94	-44.08			
	KAHALGAON STPS I	-779.54	-595.83				-160.47	-112.30			
	KAHALGAON STPS II	-2470.91	-1920.96				-563.17	-438.15			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BRBCL	-61.71	-56.21				-9.70	-3.31			
	TALA HPS	-317.90	-263.34				-115.32	-97.61			
WR+SR+NR	TOTAL	-3932.36	-3075.60	-8660.55	-6735.84	-5802.58	-912.60	-695.45	-2270.92	2174.74	1905.79
	(GRAND TOTAL)	-5691.43	-4591.30	-7968.08	-5127.20	-2114.89	-1287.09	-1005.84	-1653.57	3097.10	4544.48
NER	FARAKKA STPS I	-141.15	-104.41				-29.86	-22.69			
	FARAKKA STPS III	-1.43	-1.58				-0.30	-0.29			
	KAHALGAON STPS I	-74.25	-67.91				-15.28	-13.98			
	KAHALGAON STPS II	-230.42	-181.54				-54.06	-45.14			
TOTAL	TALCHER STPS I	-88.64	-84.56				-16.52	-15.94			
	TOTAL	-535.89	-440.01	275.96	-34.92	-441.36	-116.02	-98.04	91.13	33.37	518.58

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	Net Energy Generation in MU	Cummulative Gross Energy Generation upto Current Month (2018-19) in MU	Cummulative Net Energy Generation upto Current Month (2018-19) in MU	
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	39.47	
		Muzaffarpur Stg-I	220.00	220.00	21.95	18.21	197.70	169.84	
		Thermal Total	440.00	430.00	21.95	18.21	242.56	209.32	
	RES		327.40	327.40	15.09	15.09	107.22	107.22	
		Total BIHAR	767.40	757.40	37.04	33.30	349.77	316.53	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	87.18	75.15	612.68	524.47	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	29.00	29.00	34.11	34.11	
	RES		29.72	29.72	0.00	0.00	0.00	0.00	
		Total	159.72	159.72	29.00	29.00	34.11	34.11	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	15.86	13.53	201.57	176.89	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	353.86	322.02	1585.16	1439.32	
		Durgapur(4)	210.00	210.00	80.75	69.62	428.45	373.34	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	512.21	454.59	2723.27	2433.70	
		Mezia(U # 7,8)	1000.00	1000.00	428.86	405.26	2562.64	2431.24	
		Bokaro-A(1,2)	500.00	500.00	279.71	262.93	1510.17	1425.29	
		Durgapur STPS (U#1,2)	1000.00	1000.00	346.50	327.88	2819.76	2682.77	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	186.61	171.71	1253.86	1166.18	
		Koderma STPS (U#1,2)	1000.00	1000.00	532.14	506.74	3049.33	2905.09	
		Total Thermal	7100.00	7090.00	2736.50	2534.28	16134.22	15033.15	
	6.273	Hydro	Maithon (U#1,2,3)	63.20	63.20	16.02	15.98	51.14	50.93
			Panchet (U#1,2)	80.00	80.00	26.28	26.10	42.17	41.72
			Tilaya (U#1,2)	4.00	4.00	0.00	0.00	0.24	0.21
			Hydro Total	147.20	147.20	42.30	42.06	93.55	92.84
		Total DVC	7247.20	7237.20	2778.80	2576.34	16227.77	15125.99	
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	540.00	450.00	103.02	90.31	667.96	592.27	
		Santalalih TPS(U#5&6)	500.00	500.00	287.53	262.47	1617.72	1482.54	
		Kolaghat TPS	1260.00	1260.00	380.13	336.31	1984.31	1755.34	
		Bakreswar TPP	1050.00	1050.00	487.47	440.62	3066.54	2781.20	
		Sagardighi TPP	1600.00	1600.00	603.87	550.12	2681.80	2419.18	
		Thermal Total	4950.00	4860.00	1862.02	1679.83	10018.33	9030.53	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	24.97	24.97	108.72	108.72	
		Ramam (4x12.73)	51.00	51.00	38.06	38.06	122.31	122.31	
		Teesta C.F. (3x3x7.3)	67.30	67.30	11.42	11.42	55.19	55.19	
		Purulia PSS (4x225)	900.00	900.00	124.43	124.43	467.02	467.02	
		Total Hydro	1053.30	1053.30	198.87	198.87	753.23	753.23	
		RES	277.52	277.52	0.00	0.00	0.00	0.00	
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	134.76	119.89	1070.79	957.77	
		RES	5.00	5.00	0.49	0.49	2.58	2.58	
	➤	Chandrapura #1 is retired on 17.01.17							
	➤	Patratu # 1,2,3,5,8 are retired on 21.12.16							

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	Net Energy Generation	Cummulative Gross Energy Generation upto Current Month	Cummulative Net Energy Generation upto Current Month
			(in MW)	(in MW)	in MU	in MU	(2017-18) in MU	(2017-18) in MU
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	25.93	23.70	154.71	140.33
		Budge-Budge (3x250)	750.00	750.00	560.87	518.14	2716.67	2506.76
		Total CESC	1125.00	1125.00	586.80	541.84	2871.39	2647.09
HEL	Thermal	HEL	600.00	600.00	429.20	396.44	2066.71	1908.76
		Total West Bengal	8670.82	8580.82	3211.65	2936.87	16782.10	15299.03
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	140.25	124.96	796.55	713.24
		Talcher-II	220.00	220.00	156.44	139.39	758.46	676.84
		Total Thermal	470.00	460.00	296.69	264.34	1555.00	1390.08
OPGC	Thermal	IB TPS	420.00	420.00	226.34	200.20	1221.31	1086.31
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	55.15	54.91	190.55	189.41
		Hirakud-II (Chiplima)	72.00	72.00	5.01	4.94	86.45	86.11
		Balimela (6x60+2x75)	510.00	510.00	177.20	176.74	798.86	796.51
		Rengali (5x50)	250.00	250.00	144.64	144.51	372.07	371.51
		Upper Kolab (4x80)	320.00	320.00	84.33	84.22	312.73	311.91
		Indravati HPS (4x150)	600.00	600.00	175.31	171.31	692.17	677.69
		Mckd.(Odisha drawal)	57.38	57.38	19.00	19.00	100.63	100.63
		Total Hydro	2084.88	2084.88	660.63	655.63	2553.46	2533.77
		RES	184.30	184.30	8.93	8.93	57.16	57.16
		Total Odisha	3159.18	3149.18	1192.59	1129.11	5386.93	5067.32
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00	3.00	15.00	15.00
NTPC		MTPS Stg-II	390.00	390.00	204.947	183.02	819.67	725.71
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	902.52	844.05	4285.20	3982.90
		FSTPP (U# 6)	500.00	500.00	318.72	296.86	1504.13	1402.42
		KhSTPP (4x210+3x500)	2340.00	2340.00	1458.65	1354.90	6686.64	6195.29
		TSTPP (2x500)	1000.00	1000.00	611.54	561.58	3254.17	2992.28
		BARH STPS II (2X660)	1320.00	1320.00	835.56	791.47	4169.40	3951.03
		Total NTPC	7150.00	7150.00	4331.94	4031.88	20719.21	19249.63
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	43.79	43.79	174.82	174.82
		Teesta (3x170)	510.00	510.00	370.37	370.37	1515.60	1515.60
		TLDP -(4x33+4x40)	292.00	292.00	206.03	206.03	742.39	742.39
		Total NHPC	862.00	862.00	620.18	620.18	2432.80	2432.80
IPP		MPL (U#1&2)	1050.00	1050.00	590.02	554.25	3066.86	2893.53
IPP		APNRL (U#1,2)	540.00	540.00	197.57	181.44	1369.20	1255.21
		GMR (2x350)	700.00	700.00	281.23	265.06	1896.40	1787.36
		JITPL (2X600)	1200.00	1200.00	298.84	275.74	1913.58	1778.79
		BRBCL # I,2	500.00	500.00	109.13	97.82	689.42	628.44
		CHUZACHEN** (2x55)	110.00	110.00	66.86	66.27	266.16	264.93
		JORETHANG (2x48)	96.00	96.00	67.83	67.83	229.64	229.64
		TEESTA URJA St III (6x200)	1200.00	1200.00	529.24	529.24	2273.26	2273.26
		Tashilding (2x48.5)	97.00	97.00	69.86	69.86	230.73	230.73
		DICKCHU (3X32)	96.00	96.00	68.72	68.72	294.51	294.51
		TALCHER SOLAR	10.00	10.00	0.84	0.84	5.52	5.52
		Total Thermal (E.R)	27325.00	27205.00	12190.16	11236.38	65447.64	60380.43
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2353.49	2347.67	9164.44	9142.81
		Total RES	886.05	886.05	28.35	28.35	184.48	184.48
		TOTAL (E.R)	34087.43	33967.43	14572.00	13612.39	74796.57	69707.72
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	285.37	285.37	875.53	875.53
	Hydro	Kurichu (4x15)	60.00	60.00	71.28	71.28	215.37	215.37
	Hydro	TALA (6x170)	1020.00	1020.00	612.18	612.18	1646.60	1646.60
	Hydro	DAGACHU (2x63)	126.00	126.00	81.60	81.60	188.34	188.34
		Grand Total	35653.43	35443.43	15622.44	14662.83	77722.41	72633.56

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	PLF of Current Month	Cummulative Gross Energy Generation upto Current Month	Cummulative PLF upto Current Month
			(in MW)	(in MW)	in MU	(%)	(2018-19) in MU	(%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	5.82
		Muzaffarpur Stg-I	220.00	220.00	21.95	13.41	197.70	24.47
		Thermal Total	440.00	430.00	21.95	6.86	242.56	15.36
	RES				15.09		107.22	
	Total BIHAR		767.40	757.40	37.04		349.77	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	87.18	27.90	612.68	39.73
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	29.00		34.11	
	RES		29.72	29.72	0.00		0.00	
	Total		159.72	159.72	29.00		34.11	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	15.86	10.15	201.57	26.14
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	353.86	95.12	1585.16	86.34
		Durgapur(4)	210.00	210.00	80.75	51.68	428.45	55.56
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	512.21	51.38	2723.27	55.35
		Mezia(U # 7,8)	1000.00	1000.00	428.86	57.64	2562.64	69.79
		Bokaro-A(1,2)	500.00	500.00	279.71	75.19	1510.17	82.25
		Durgapur STPS (U#1,2)	1000.00	1000.00	346.50	46.57	2819.76	76.79
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	186.61	20.90	1253.86	28.46
		Koderma STPS (U#1,2)	1000.00	1000.00	532.14	71.52	3049.33	83.04
	Total Thermal		7100.00	7090.00	2736.50	51.88	16134.22	61.97
	Hydro	Maithon (U#1,2,3)	63.20	63.20	16.02		51.14	
		Panchet (U#1,2)	80.00	80.00	26.28		42.17	
		Tilaya (U#1,2)	4.00	4.00	0.00		0.24	
		Hydro Total		147.20	147.20	42.30		93.55
Total DVC		7247.20	7237.20	2778.80		16227.77		
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	540.00	450.00	103.02	30.77	667.96	40.42
		Santalidih TPS(U#5&6)	500.00	500.00	287.53	77.29	1617.72	88.11
		Kolaghat TPS	1260.00	1260.00	380.13	40.55	1984.31	42.89
		Bakreswar TPP	1050.00	1050.00	487.47	62.40	3066.54	79.53
		Sagardighi TPP	1600.00	1600.00	603.87	50.73	2681.80	45.65
		Thermal Total	4950.00	4860.00	1862.02	51.50	10018.33	56.14
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	24.97		108.72	
		Ramam (4x12.73)	51.00	51.00	38.06		122.31	
		Teesta C.F. (3x3x7.3)	67.30	67.30	11.42		55.19	
		Purulia PSS (4x225)	900.00	900.00	124.43		467.02	
		Total Hydro	1053.30	1053.30	198.87		753.23	
	RES		277.52	277.52	0.00		0.00	
TLDP -(4x33+4x40)		292.00	292.00	206.03		742.39		
DPL	Thermal	DPSPS (110+300+250 *)	660.00	660.00	134.76	27.44	1070.79	44.18
	RES		5.00	5.00	0.49		2.58	

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2017-18) in MU	Cummulative PLF upto Current Month (%)
			(in MW)	(in MW)				
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	25.93	25.81	154.71	31.21
		Budge-Budge (3x250)	750.00	750.00	560.87	100.51	2716.67	98.64
		Total CESC	1125.00	1125.00	586.80	70.11	2871.39	69.51
HEL	Thermal		600.00	600.00	429.20	96.15	2066.71	93.80
		Total West Bengal	8670.82	8580.82	3211.65		16782.10	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	140.25	78.54	796.55	90.39
		Talcher-II	220.00	220.00	156.44	95.58	758.46	93.89
		Total Thermal	470.00	460.00	296.69	86.69	1555.00	92.06
OPGC	Thermal	IB TPS	420.00	420.00	226.34	72.43	1221.31	79.19
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	55.15		190.55	
		Hirakud-II (Chiplima)	72.00	72.00	5.01		86.45	
		Balimela (6x60+2x75)	510.00	510.00	177.20		798.86	
		Rengali (5x50)	250.00	250.00	144.64		372.07	
		Upper Kolab (4x80)	320.00	320.00	84.33		312.73	
		Indravati HPS (4x150)	600.00	600.00	175.31		692.17	
		Mckd.(Odisha drawal)	57.38	57.38	19.00		100.63	
		Total Hydro	2084.88	2084.88	660.63		2553.46	
		RES	184.30	184.30	8.93		57.16	
		Total Odisha	3159.18	3149.18	1192.59		5386.93	
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00		15.00	
NTPC		MTPS Stg-II	390	390	204.947	70.63	819.6677	57.24
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	902.52	75.82	4285.20	72.94
		FSTPP (U# 6)	500.00	500.00	318.72	85.68	1504.13	81.92
		KhSTPP (4x210+3x500)	2340.00	2340.00	1458.65	83.78	6686.64	77.82
		TSTPP (2x500)	1000.00	1000.00	611.54	82.20	3254.17	88.62
		BARH STPS II (2X660)	1320.00	1320.00	835.56	85.08	4169.40	86.02
		Total NTPC	7150.00	7150.00	4331.94	81.43	20719.21	78.92
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	43.79		174.82	
		Teesta (3x170)	510.00	510.00	370.37		1515.60	
		TLDP -(4x33+4x40)	292.00	292.00	206.03		742.39	
		Total NHPC	862.00	862.00	620.18		2432.80	
IPP	Thermal	MPL (U#1&2)	1050.00	1050.00	590.02	75.53	3066.86	79.54
IPP		APNRL (U#1,2)	540.00	540.00	197.57	49.18	1369.20	69.05
		GMR (2x350)	700.00	700.00	281.23	54.00	1896.40	122.70
		JITPL (2X600)	1200.00	1200.00	298.84	33.47	1913.58	43.43
		BRBCL # 1,2	500.00	500.00	109.13	29.34	689.42	37.55
		CHUZACHEN** (2x55)	110.00	110.00	66.86		266.16	
		JORETHANG (2x48)	96.00	96.00	67.83		229.64	
		TEESTA URJA St III (6x200)	1200.00	1200.00	529.24		2273.26	
		Tashilding (2x48.5)	97.00	97.00	69.86		230.73	
		DICKCHU (3X32)	96.00	96.00	68.72		294.51	
		TALCHER SOLAR	10.00	10.00	0.84		5.52	
		Total Thermal (E.R)	27325.00	27205.00	12190.16	60.23	65447.64	65.52
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2353.49		9164.44	
		Total RES	886.05	886.05	28.35		184.48	
		TOTAL (E.R)	34087.43	33967.43	14572.00		74796.57	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	285.37		875.53	
	Hydro	Kurichu (4x15)	60.00	60.00	71.28		215.37	
	Hydro	TALA (6x170)	1020.00	1020.00	612.18		1646.60	
	Hydro	DAGACHU (2x63)	126.00	126.00	81.60		188.34	
		Grand Total	35653.43	35443.43	15622.44		77722.41	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF (23-8-2018)

Date **23-Aug-18**
Time **21.00** Hrs.
Frequency **49.91** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	767	757	0	0	0	0
JUVNL	580	580	122	0	0	122
DVC	7247	7237	56	3498	0	3553
ODISHA	3159	3149	1375	695	52	2122
WBSEDCL	6281	6191	1005	2704	0	3708
TLDP	292	292	298	0	0	298
HEL HALDIA	600	600	0	550	0	550
CESC	1125	1125	0	798	0	798
DPL	665	665	0	189	0	189
SIKKIM	52	52	0	0	0	0
NTPC	7150	7150	0	5952	0	5952
NHPC	570	570	573	0	0	573
CHUKHA	360	270	378	0	0	378
KURICHU	60	60	112	0	0	112
TALA	1020	1020	811	0	0	811
MPL	1050	1050	0	977	0	977
SEL	0	0	0	0	0	0
APNRL	540	540	0	248	0	248
Kamalganga (GMR)	700	700	0	300	0	300
JITPL	1200	1200	0	374	0	374
BRBCL	500	500	0	200	0	0
Chuzachen	110	110	109	0	0	109
Jorethang	96	96	103	0	0	103
TEESTA URJA St III	1200	1200	788	0	0	788
Tashilding	97	97	110	0	0	110
DICKCHU	96	96	98	0	0	98
<u>Daghachu</u>	126	126	122	0	0	122
<u>Solar</u>	10	10	0	0	0	0
<u>Diseal</u>	0	0	0	0	0	0
<u>Total</u>	35653	35443	6060	16483	52	22595
Import From Captive:						796
Export To:						
NER						1066
SR						350
WR						-2856
NR						1587.14
Bangladesh						491.82
Nepal						170.98
Total						811

➤ I Net Peak Demand Met (MW) :

22580

Indicates Export(+)/Import(-) of Power

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of (23-8-2018)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From CHPS, KHPS & TALA	Export to other region	Met	Correction	Shed	Requirement
1	3618	15730	19348	671	1338	1255	20103	32	115	20249
2	3404	15677	19081	667	1339	1347	19740	26	221	19988
3	3374	15524	18898	647	1334	1272	19608	21	202	19830
4	3355	14968	18323	666	1334	1063	19259	8	104	19372
5	3277	15189	18467	666	1334	1333	19134	28	138	19300
6	3295	15437	18732	695	1300	1857	18870	64	146	19080
7	3334	15625	18959	730	1298	2569	18419	19	152	18590
8	3385	15567	18953	690	1314	2399	18557	-21	34	18570
9	3503	15030	18533	707	1322	1751	18810	-21	32	18820
10	3660	14686	18346	671	1325	1410	18932	5	48	18985
11	3704	14729	18433	634	1296	1457	18906	-7	35	18934
12	3509	14912	18421	613	1327	1371	18990	23	161	19175
13	3368	14923	18291	616	1325	1441	18791	-5	246	19032
14	3422	14808	18230	633	1326	1385	18804	0	19	18824
15	3422	15144	18565	654	1322	1541	19000	52	22	19073
16	3476	15185	18662	654	1313	1616	19012	28	93	19133
17	3552	15219	18772	652	1312	1816	18920	55	12	18986
18	3663	15669	19332	624	1291	2314	18933	36	14	18984
19	4497	16329	20825	653	1273	1385	21367	49	53	21468
20	4758	16628	21385	781	1285	1003	22447	47	199	22693
21	4811	16483	21294	796	1301	811	22580	71	144	22794
22	4675	16418	21093	826	1317	1054	22182	29	364	22575
23	4555	16311	20866	787	1322	1128	21847	59	264	22170
24	4407	16164	20572	698	1333	1141	21462	47	157	21666

Hourly Load Generation Data of ER On Regional Lean Day During The Month of (15-8-2018)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From CHPS, KHPS & TALA	Export to other region	Met	Correction	Shed	Requirement
1	3464	15713	19177	628	1339	872	20273	20	16	20308
2	3254	15703	18957	626	1337	875	20045	-4	16	20057
3	3166	15517	18683	631	1338	1173	19479	-5	16	19489
4	3380	15446	18826	617	1337	1516	19264	2	16	19281
5	3172	15466	18638	626	1325	1209	19379	-2	17	19394
6	3360	15403	18763	622	1301	2329	18357	26	19	18402
7	3385	15410	18795	623	1300	3824	16894	10	25	16928
8	3051	15070	18121	612	1314	3261	16787	-32	24	16811
9	3029	14750	17779	634	1278	2849	16841	-16	4	16845
10	3014	14397	17411	624	1239	2456	16817	-10	7	16824
11	3023	13740	16763	614	1237	1723	16891	-4	7	16893
12	3064	13686	16750	586	1248	1725	16859	12	14	16884
13	2946	13061	16008	685	1249	1434	16507	0	20	16527
14	2764	12675	15439	715	1261	1497	15918	-17	17	15934
15	2689	12445	15135	680	1276	1972	15119	-17	8	15127
16	2597	12331	14929	712	1284	1722	15203	-39	5	15207
17	2713	12229	14943	696	1276	1704	15210	-25	16	15226
18	2781	12598	15379	681	1238	1885	15413	1	13	15427
19	3101	14004	17105	679	1249	885	18148	-13	69	18204
20	3021	15129	18150	699	1294	351	19793	7	77	19876
21	3090	15350	18439	706	1313	466	19993	23	260	20276
22	3070	15180	18249	713	1330	790	19502	24	384	19909
23	3009	15139	18149	701	1336	916	19269	15	158	19442
24	2712	15313	18025	693	1332	1076	18974	-3	50	19021

NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR

FOR THE MONTH OF

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 14.80 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 2.71 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 49.91 MU
ODISHA	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 0.00 MU
WEST BENGAL	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 13.85 MU

POWER SUPPLY TO AGRICULTURAL SECTOR

STATE	HOURS OF SUPPLY (AVERAGE / DAY)
BIHAR	18 HRS.00 MINS.
JHARKHAND	ABOUT 20 to 22 HRS.
ODISHA	24 HRS.
WEST BENGAL	23 HRS.

FREQUENCY DETAILS FOR THE MONTH OF

Aug-18

D A T E																		
	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00		49.9	>50.05	49.9								
	TO	TO	TO	TO	TO	TO	<49.9	TO		TO	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	05	10	17	22	24	24		50.1	50.05		HZ		HZ		HZ		HZ	
01-Aug	49.99	49.99	50.00	49.97	49.95	49.98	2.60	85.40	12.00	85.40	50.19	13:03	49.85	22:20	50.12	0:00	49.90	0:00
02-Aug	49.95	49.95	49.96	49.92	49.88	49.94	22.10	72.70	5.20	72.70	50.13	13:04	49.65	6:20	50.07	0:00	49.73	0:00
03-Aug	49.96	49.96	50.01	49.95	49.95	49.97	7.90	81.60	10.50	81.60	50.18	13:01	49.82	6:20	50.10	0:00	49.86	0:00
04-Aug	49.95	49.96	49.97	49.95	49.91	49.95	13.30	81.50	5.20	81.50	50.11	13:04	49.63	22:10	50.07	0:00	49.78	0:00
05-Aug	49.95	49.98	50.00	49.96	49.99	49.98	7.90	79.70	12.40	79.70	50.19	13:02	49.79	21:04	50.11	0:00	49.86	0:00
06-Aug	49.98	49.98	49.98	49.95	49.94	49.97	6.40	88.40	5.20	88.40	50.26	13:06	49.78	6:12	50.06	0:00	49.86	0:00
07-Aug	49.96	49.94	49.96	49.93	49.87	49.94	21.10	74.00	4.90	74.00	50.16	18:01	49.68	22:21	50.05	0:00	49.75	0:00
08-Aug	49.97	49.96	49.97	49.94	49.91	49.96	12.00	84.20	3.80	84.20	50.20	13:03	49.73	6:15	50.10	0:00	49.80	0:00
09-Aug	49.96	49.98	49.97	49.92	49.94	49.96	12.60	78.90	8.50	78.90	50.14	18:00	49.62	19:12	50.08	0:00	49.71	0:00
10-Aug	49.95	49.94	49.95	49.92	49.94	49.94	17.80	79.70	2.50	79.70	50.12	16:01	49.72	21:09	50.04	0:00	49.81	0:00
11-Aug	49.98	49.99	50.00	49.98	49.97	49.99	1.80	86.60	11.60	86.60	50.19	13:02	49.85	0:06	50.11	0:00	49.93	0:00
12-Aug	50.01	50.01	50.00	49.97	50.02	50.00	1.90	82.90	15.20	82.90	50.16	16:03	49.85	20:38	50.08	0:00	49.88	0:00
13-Aug	50.01	50.00	49.98	49.93	49.88	49.97	14.00	73.00	13.00	73.00	50.16	13:13	49.71	19:28	50.13	0:00	49.80	0:00
14-Aug	49.94	49.94	50.00	49.95	49.97	49.96	12.10	80.80	7.10	80.80	50.18	13:00	49.76	6:34	50.07	0:00	49.80	0:00
15-Aug	50.00	50.01	50.02	49.99	49.99	50.01	1.10	78.60	20.30	78.60	50.19	16:05	49.87	21:05	50.13	0:00	49.90	0:00
16-Aug	50.03	49.99	50.01	49.99	50.01	50.01	0.70	76.20	23.10	76.20	50.15	11:05	49.73	13:41	50.11	0:00	49.94	0:00
17-Aug	50.01	50.00	49.98	49.94	49.95	49.98	8.54	79.94	11.52	79.94	50.12	13:31	49.73	19:20	50.07	0:00	49.80	0:00
18-Aug	49.98	50.00	49.95	49.93	49.97	49.96	13.70	76.50	9.80	76.50	50.16	13:01	49.86	18:40	50.08	0:00	49.81	0:00
19-Aug	49.98	50.01	50.01	49.99	50.01	50.00	1.00	85.00	14.00	85.00	50.14	15:13	49.79	19:30	50.11	0:00	49.91	0:00
20-Aug	50.02	50.01	50.00	49.98	50.03	50.00	2.80	77.50	19.70	77.50	50.15	6:04	49.76	18:42	50.09	0:00	49.90	0:00
21-Aug	49.99	50.01	49.97	49.96	49.95	49.98	7.20	81.50	11.30	81.50	50.14	18:01	49.77	22:06	50.09	0:00	49.81	0:00
22-Aug	49.93	49.97	50.01	49.92	49.97	49.96	9.00	80.90	10.10	80.90	50.16	16:01	49.74	21:05	50.08	0:00	49.82	0:00
23-Aug	49.97	49.99	49.97	49.94	49.93	49.96	10.30	83.40	6.30	83.40	50.13	8:01	49.74	18:15	50.08	0:00	49.84	0:00
24-Aug	49.98	49.98	49.99	49.94	49.98	49.97	7.13	84.64	8.23	84.64	50.15	12:02	49.67	19:18	50.07	0:00	49.79	0:00
25-Aug	50.01	50.01	50.01	49.96	49.97	49.99	2.30	81.30	16.40	81.30	50.15	3:59	49.83	18:39	50.10	0:00	49.90	0:00
26-Aug	49.97	50.02	50.03	49.98	49.99	50.00	1.00	77.00	22.00	77.00	50.18	18:02	49.83	22:08	50.10	0:00	49.93	0:00
27-Aug	49.98	49.99	49.98	49.94	49.99	49.97	6.10	86.30	7.60	86.30	50.16	13:03	49.72	19:27	50.06	0:00	49.81	0:00
28-Aug	49.98	49.95	49.96	49.90	49.95	49.95	16.30	78.10	5.60	78.10	50.18	13:03	49.62	19:17	50.06	0:00	49.74	0:00
29-Aug	49.93	49.95	49.99	49.95	49.98	49.96	15.90	75.50	8.60	75.50	50.14	13:01	49.65	6:13	50.08	0:00	49.80	0:00
30-Aug	49.97	49.98	49.99	49.93	49.98	49.97	11.30	80.10	8.60	80.10	50.17	16:01	49.72	5:16	50.04	0:00	49.81	0:00
31-Aug	49.98	49.96	24.98	50.01	50.01	49.97	8.60	81.90	9.50	81.90	50.19	13:01	49.74	18:52	50.09	0:00	49.80	0:00
MAX	50.03	50.02	50.03	50.01	50.03	50.01	22.10	88.40	23.10	88.40	50.26		49.87		50.13		49.94	
MIN	49.93	49.94	24.98	49.90	49.87	49.94	0.70	72.70	2.50	72.70	50.11		49.62		50.04		49.71	
AVG	49.98	49.98	49.18	49.95	49.96	49.97	8.92	80.44	10.64	80.44	50.16		49.75		50.08		49.83	

SUMMARY:Avg. Frequency : **49.97 Hz.****Instantaneous Frequency :**

Maximum Frequency : 50.26 Hz On 00/01/00 at 13:06 Hrs.

Minimum Frequency : 49.62 Hz On 00/01/00 at 19:17 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.13 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.71 Hz On 00/01/00 at 00:00 Hrs

Frequency Distribution in % of Time			
Hz	<49.9	49.9-50.05	>50.05
% of Time	8.92	80.44	10.64

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	414	393	421	404	418	372	420	396

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	415	384	420	405	412	403	415	402

DETAILS OF CONSTITUENT WISE LOAD SHEDDING IMPLEMENTED THROUGH UFRs IN THE EASTERN REGION

Expected Load Relief through UFRs by ER Constituent:

(All Fig. are in MW)

STATES/ UTILITIES	STAGE-I (49.2 Hz) (Inst.)	STAGE-II (49.0 Hz) (Inst.)	STAGE-III (48.8 Hz) (Inst.)	STAGE-IV 48.2 Hz (Inst.)	Total Load Relief by Control Area
BIHAR	98	99	99	101	397
JHARKHAND	61	62	61	62	246
DVC	134	135.5	136	137	542.5
ODISHA	181.5	183.5	184	186	735
WEST BENGAL (incl. CESC)	345.5	350	350	354	1399.5
TOTAL	820	830	830	840	3320

As decided in the National Power Committee (NPC) meeting held on 16.07.2013 and subsequently in the 89th OCC meeting of ERPC to implement the scheme w.e.f. 30.09.2013.

A. WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN Aug-18

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-08-18)	(31-08-17)		
Hirakud	192	180	189.93	188.81	186.34	01.08.18
Balimela	462	439	460.95	451.13	450.65	01.08.18
Rengali	123	109	121.30	120.90	116.45	01.08.18
Upperkolab	858	844	856.05	851.67	850.60	01.08.18
Indravati	642	625	640.04	635.14	634.73	01.08.18
Subernrekha	590	580	586.86	588.90	586.01	01.08.18

B. CPP/IPP IMPORT by Eastern Region Constituents during Aug-18

(All figs. are in MU)

System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	47.83
West Bengal	53.23	25.64	0	0	0	0	0	34.90	113.77
ODISHA	0	0	36.78	1.80	0.14	4.16	0	356.89	399.77
DVC	0	0	0	0	0	0	20.40	0	20.40
TOTAL	53.23	25.64	36.78	1.80	0.14	4.16	20.40	391.79	581.77

C. Distribution of Schedule Supply among Key Customers by IPPs during Aug-18

(All figs. are in MU)

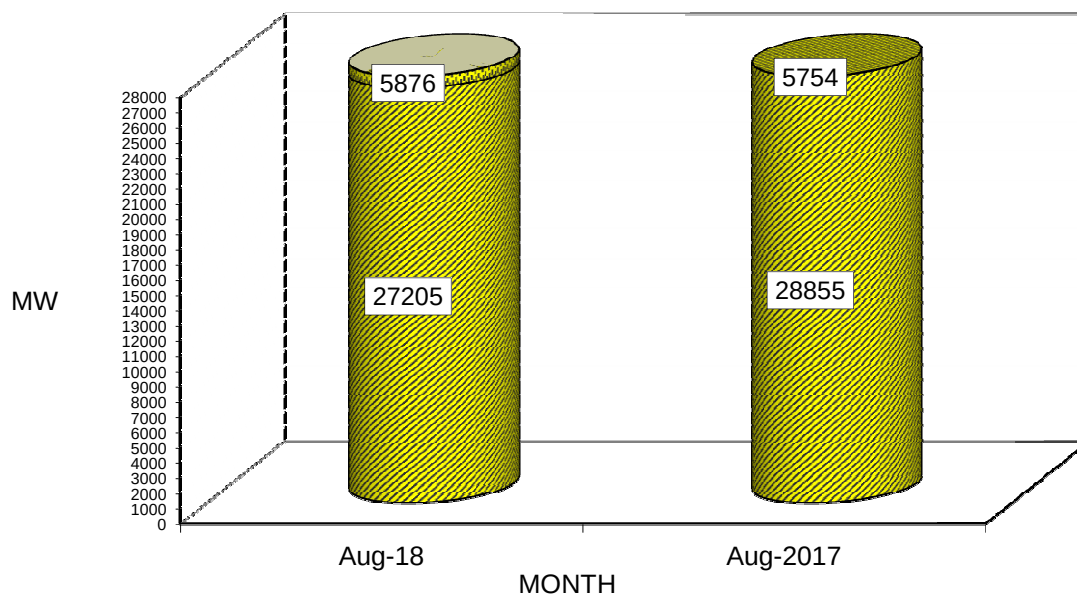
IPP	TPDDL	WBSEDCL/ WBPCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	151.11	166.38	83.58	0.00	0	0	152.70	553.78
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	37.63	0	2.38	0.00	95.53	49.72	185.26
GMR	0	0.00	0	0.00	0.00	0	0.00	0.00
Total	151.11	204.01	83.58	2.38	0.00	95.53	202.42	739.04

(*)--During this month, DVC has drawn 83.58 MU of MPL energy which is included in its exchange with Grid.

D. Monthwise Gross Generation from Chuzachen HEP

April'18	May'18	June'18	July'18	Aug'18	Sep'18	Cum. Total (2018-19)
24.01	44.24	56.56	74.49	66.86	0.00	266.16
Oct'18	Nov'18	Dec'18	Jan'19	Feb'19	Mar'19	
0.00	0.00	0.00	0.00	0.00	0.00	

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID

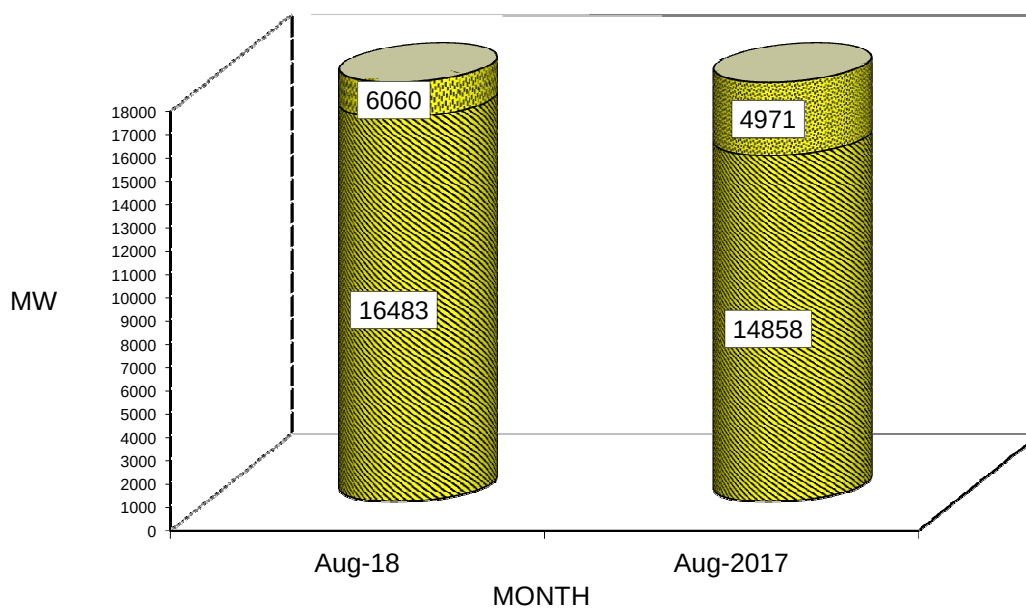


■ HYDRO *

■ THERMAL

*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

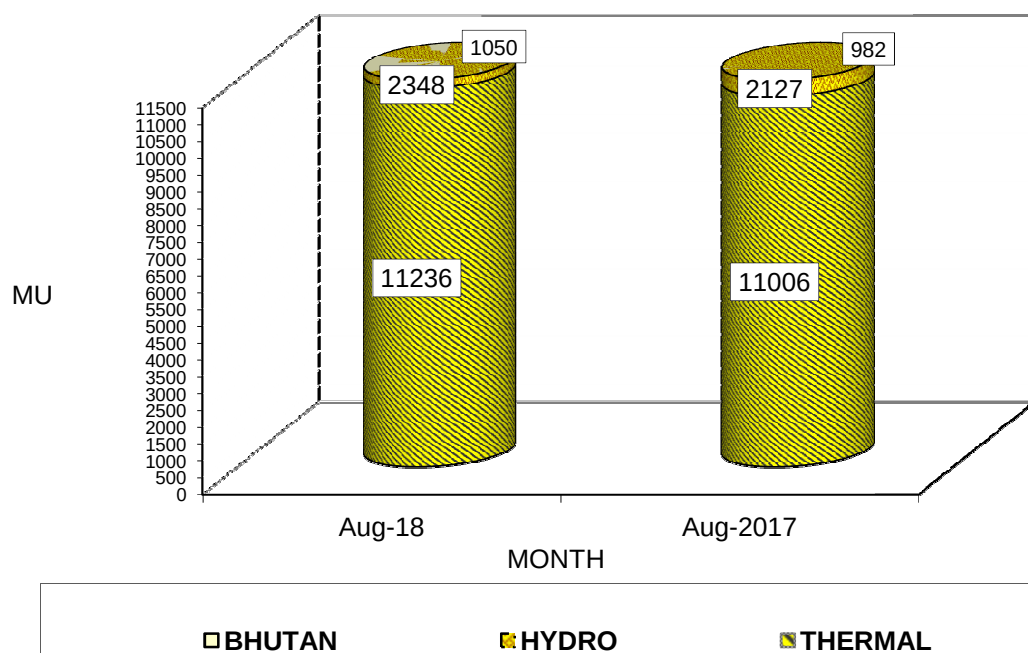


■ THERMAL

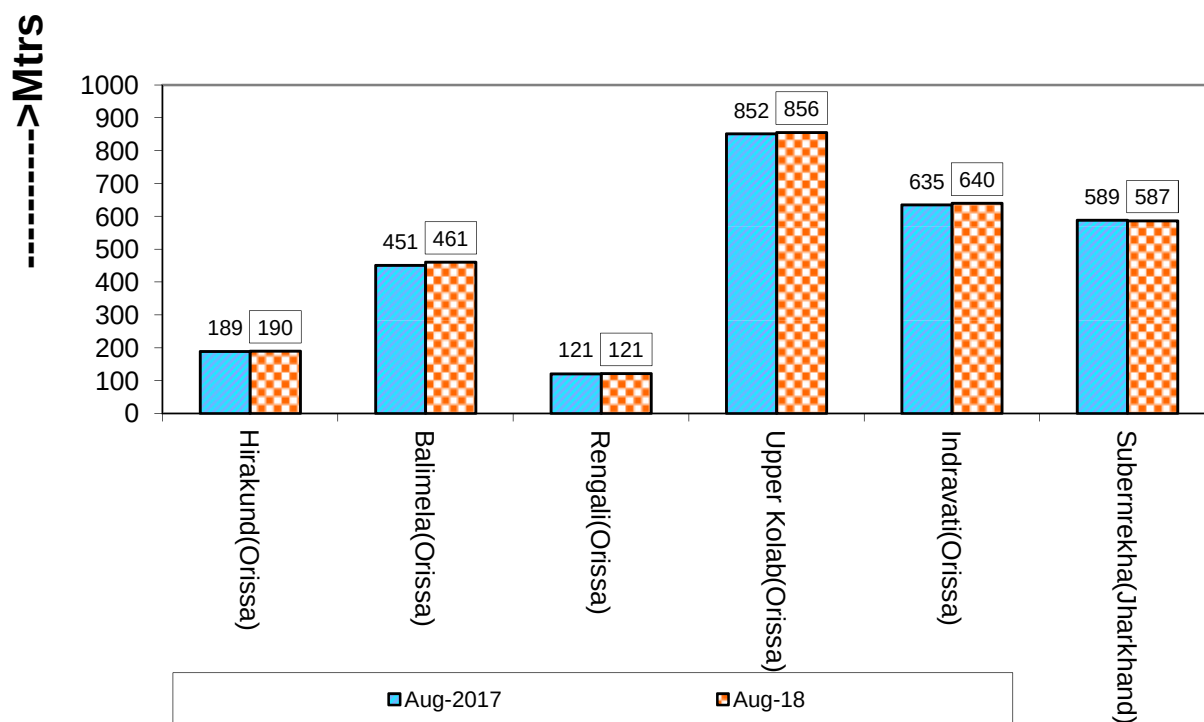
■ HYDRO *

*Includes contribution from HEP of Bhutan

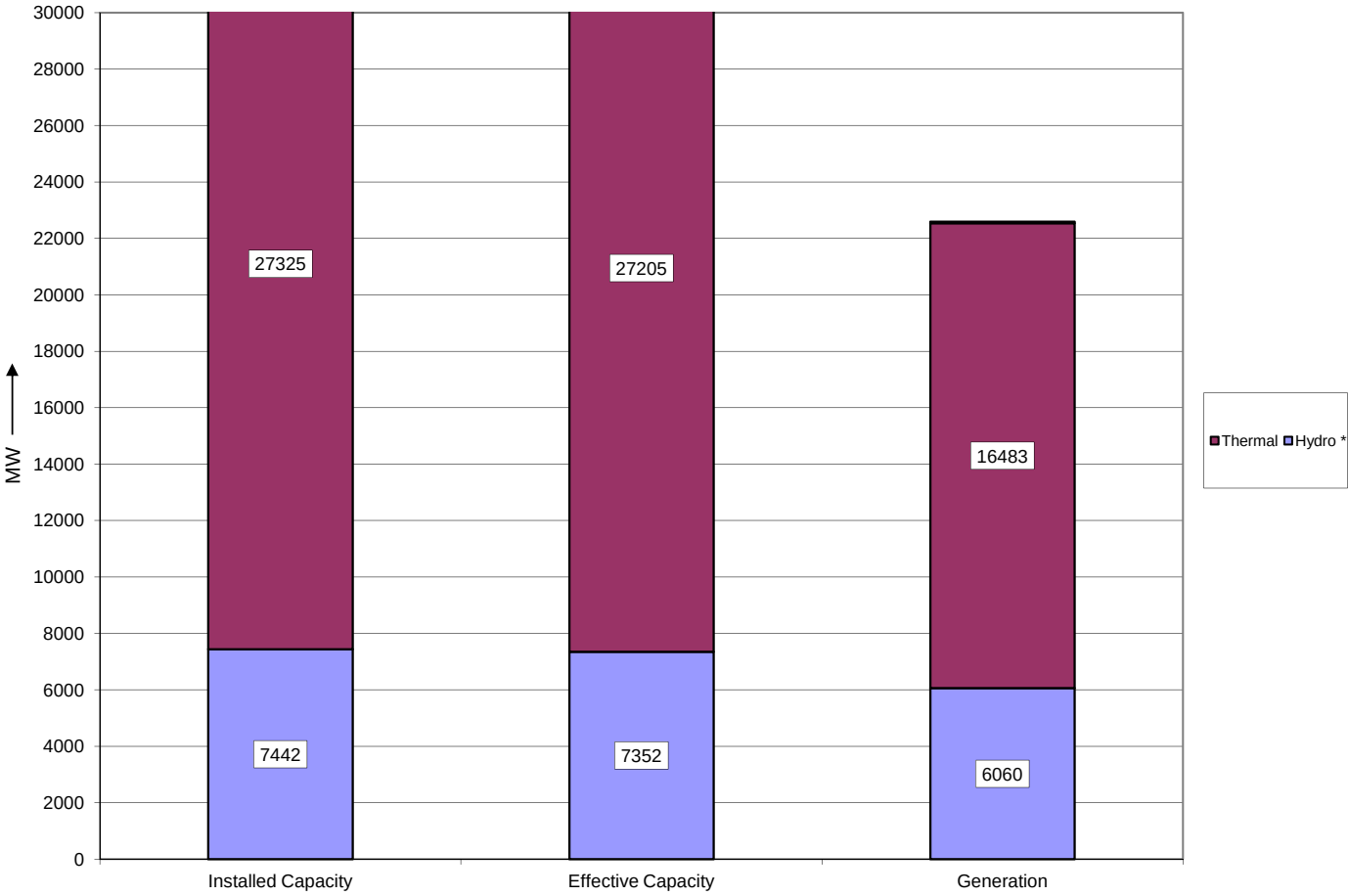
NET ENERGY GENERATION



RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)

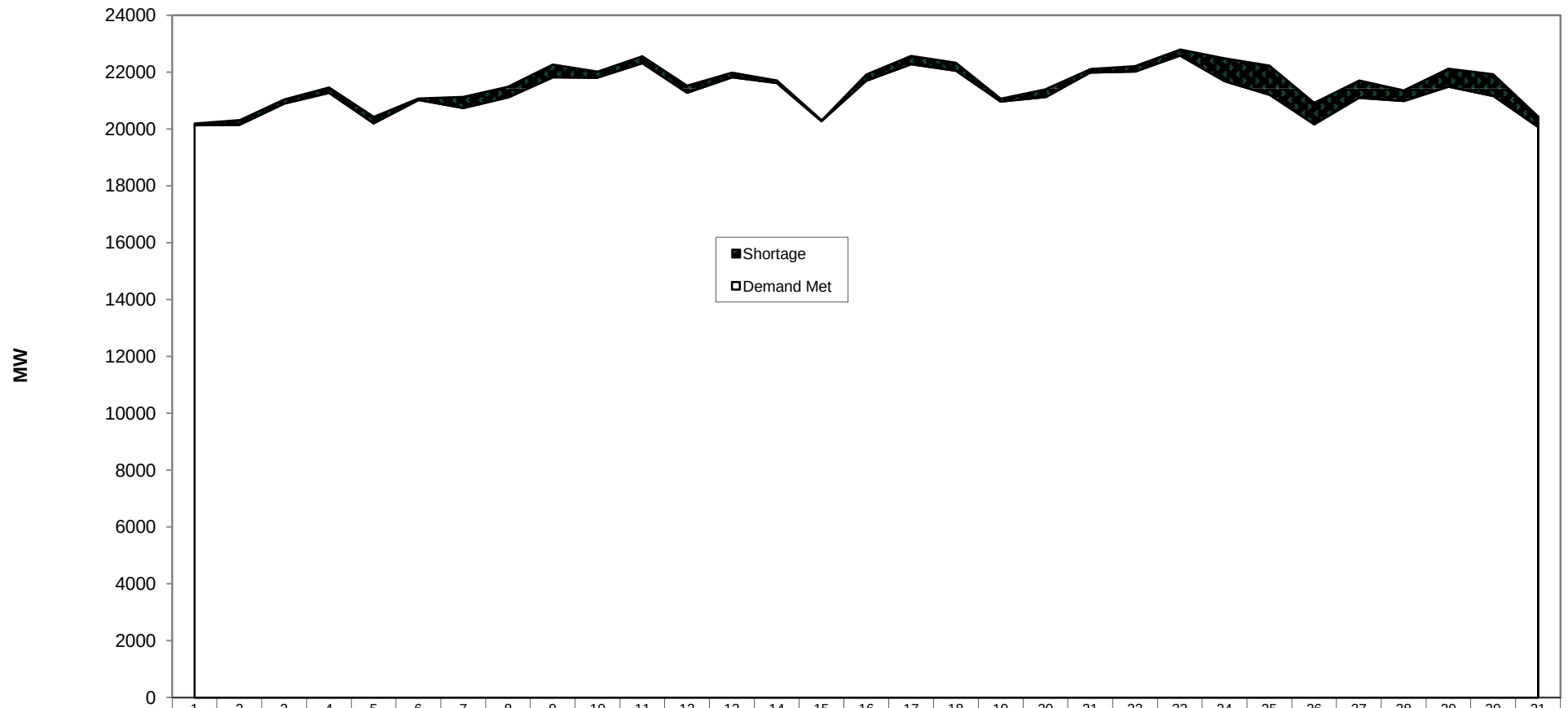


Capacity / Actual Generation Pattern of ER on Peak Day (23-8-2018) at 21.00 hrs.



(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

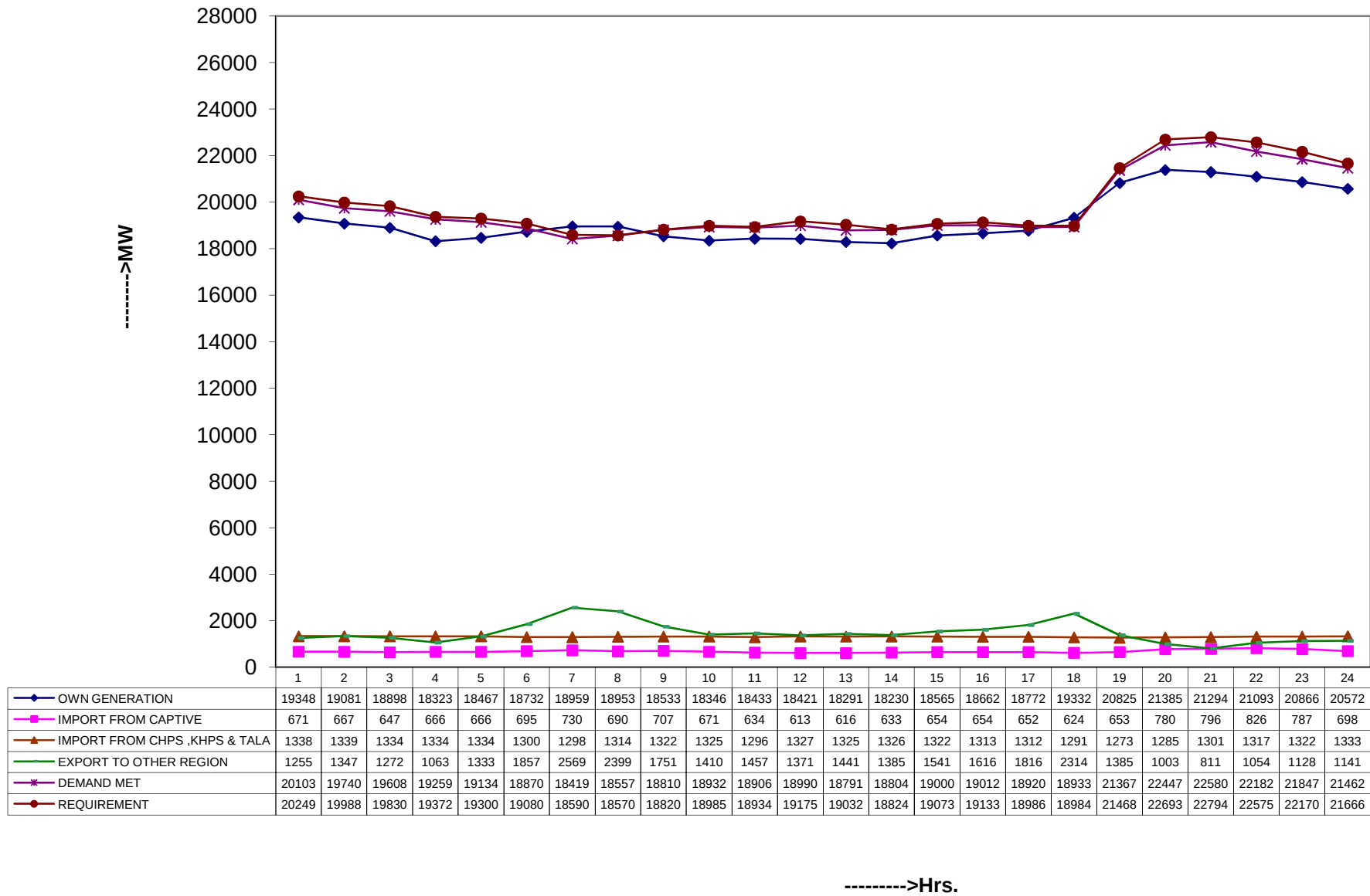
Peak Demand Met / Shortage of Eastern Region For The Month Of



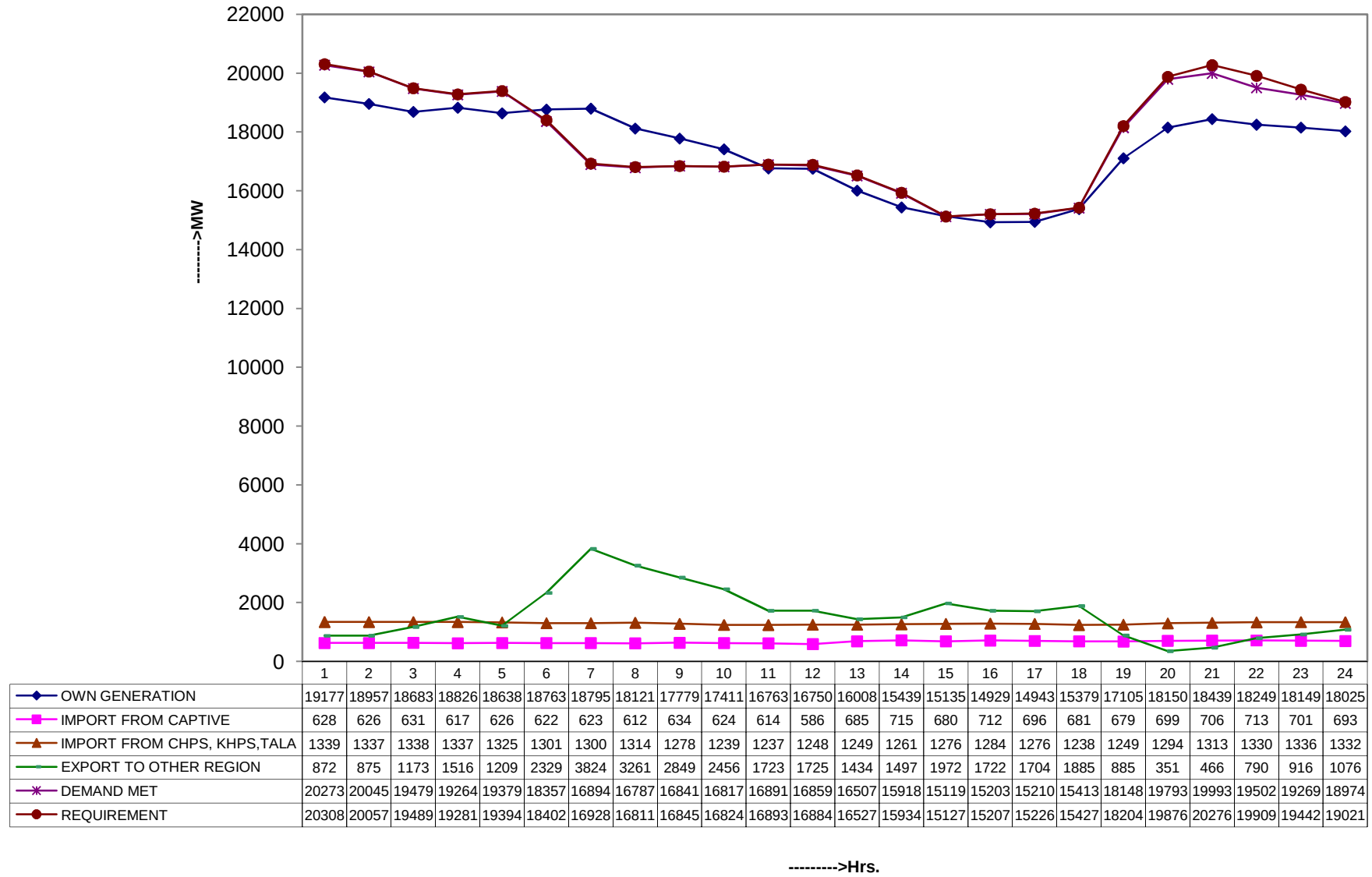
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
■ Shortage	58	166	148	191	225	56	390	378	451	215	248	245	167	95	35	217	294	280	104	281	122	193	215	809	1023	760	608	372	633	761	364
□ Demand Met	20132	20144	20889	21269	20199	21016	20735	21109	21815	21804	22311	21275	21817	21614	20273	21701	22276	22052	20962	21118	21985	22020	22580	21675	21204	20161	21095	20984	21488	21161	20074

DATE

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of (23-8-2018)

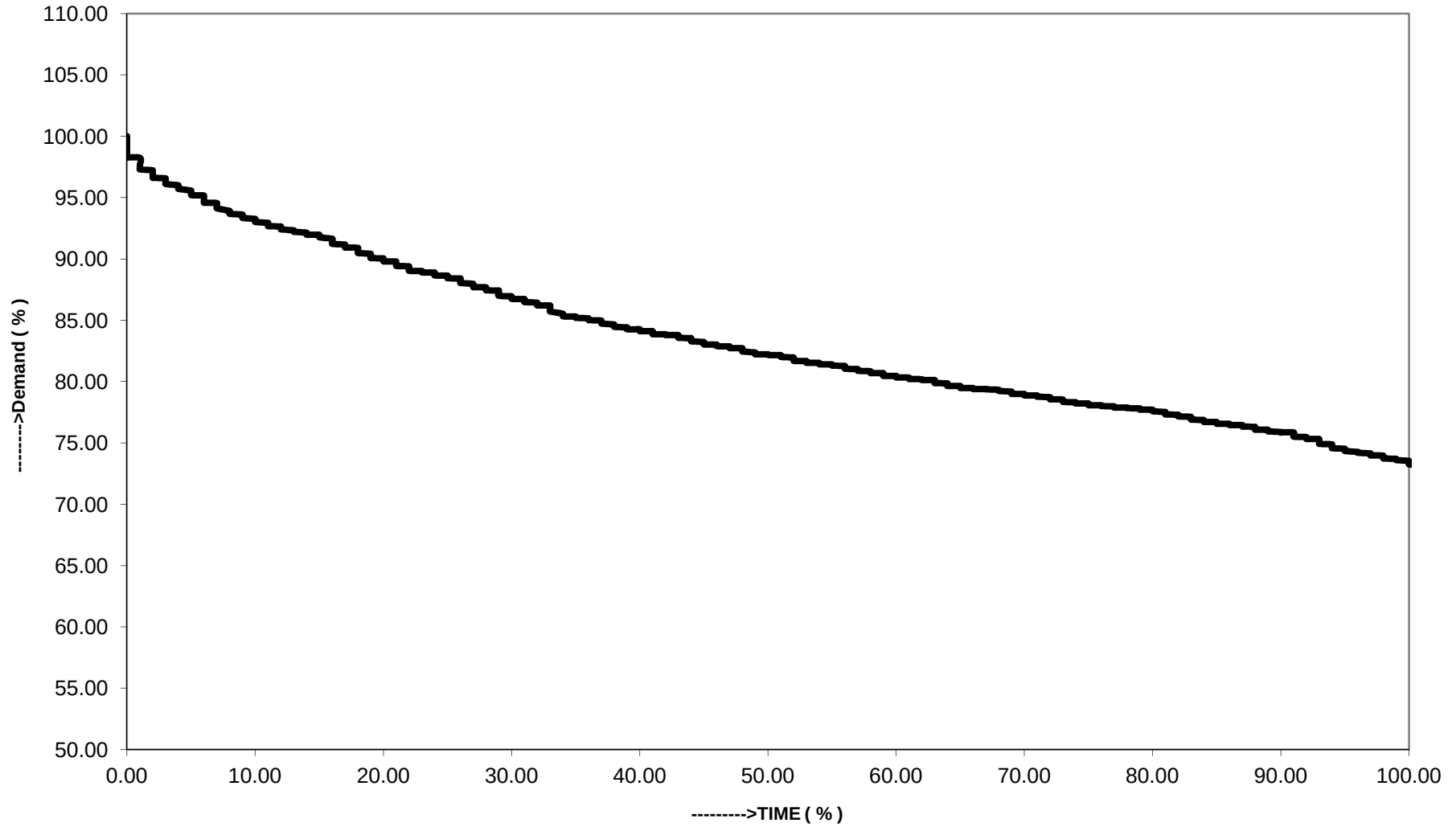


Hourly Load Generation Data of ER On Regional Lean Day During The Month of (15-8-2018)



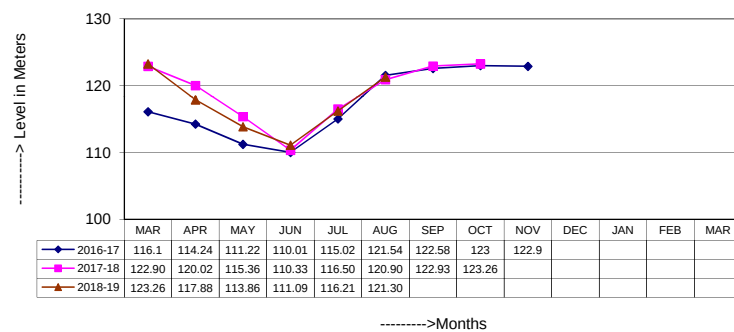
Monthly Load Duration Curve of Eastern Region for Aug-18

Maximum Demand met : 22580 MW
Minimum Demand met: 15119 MW

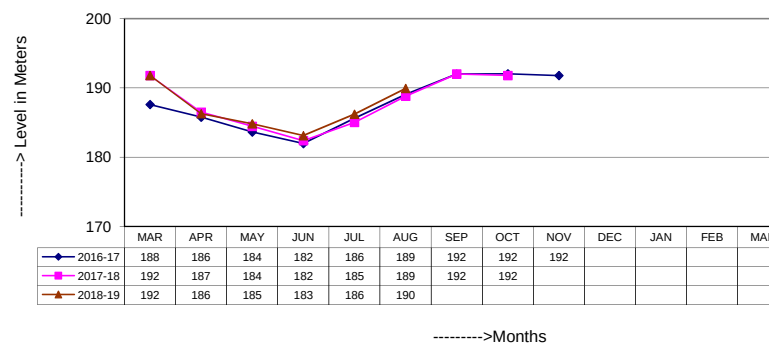


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

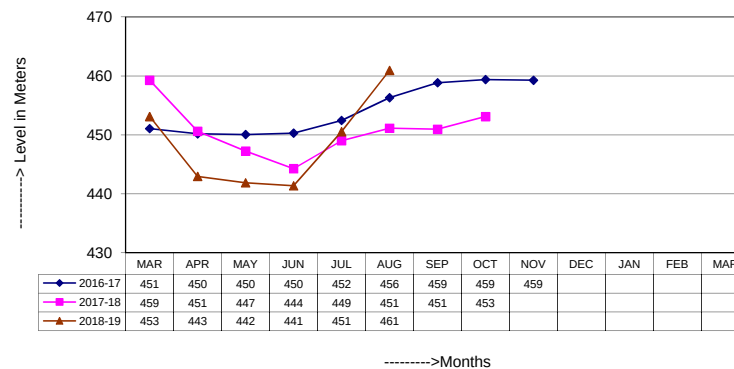
RENGALI RESERVOIR LEVEL



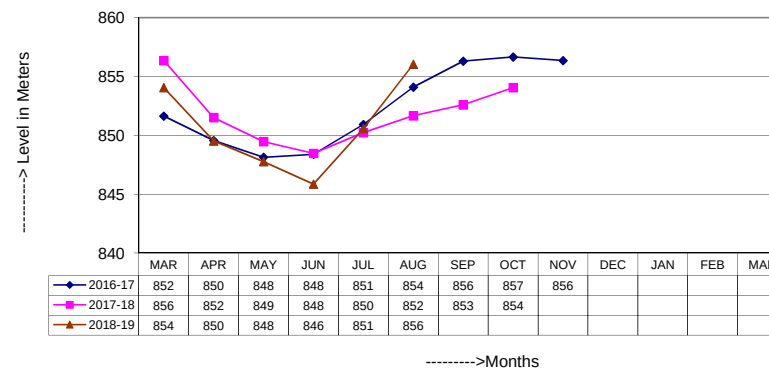
HIRAKUD RESERVOIR LEVEL



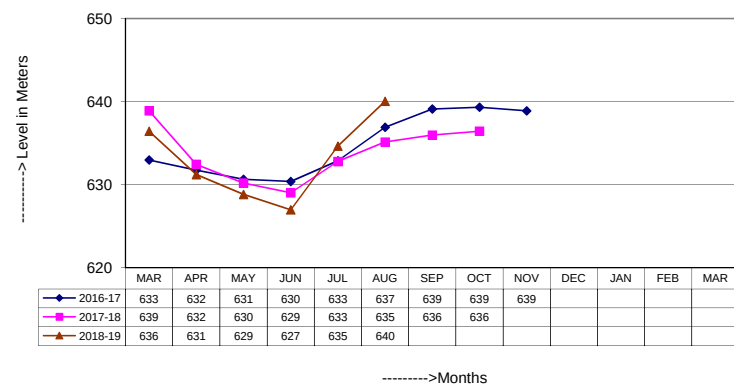
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

