



सत्यमेव जयते

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- 2019

August -2019



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for August-2019

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Aug, 2019** was **23398 MW** which is 3.62% more than the **Aug, 2018** (22580 MW). Individual **Peak Demand (MW)** of most of constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Aug, 2019** was **460.9 MU** excluding export, which is 3.25% more than the corresponding period of last year (446.37 MU).
- The **Average regional PLF of thermal units during the month** is **55.70%**, which is 4.53% less than the corresponding period of the last year (**60.23%**).

CESC (Budge-Budge) registered the highest **PLF** of 96.79%, followed by Haldia 93.17% NTPC Barh (STPS-II) 86.32% and NTPC (FSTPP#I&II) 83.32% during the month of **Aug, 2019**.

- **Maximum Net generation** was **23655 MW** against total **Effective Capacity of 38068 MW** (including import from Bhutan). At the time of Regional peak (23398 MW on 30.08.2019 at 20.00 hrs.) the generation was 23301 MW and import from CPP was 789 MW, Net export was 692 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 72.67% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and the minimum frequency touched were 50.32 Hz and 49.55 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.27 Hz** and **49.67 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **424 KV** at Biharshariff 400 KV S/s whereas the minimum voltage recorded 381 KV at Jeerat 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **7016 MW** (including Nepal and Bangladesh) on **14th Aug, 2019** at 08:00 hrs. Total net energy export during the month was **1199.47 MU** (Inc.Transmission loss) MU which is corresponds to 8.06 % of ex-bus total generation 14869.53 MU of Eastern Region.
- The import from CPPs was 618.99 MU during the month.
- **Export(+)/Import(-) during the month:**

Region/Country	Max. Export of Power from ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy inc.Transmission loss(MU)
NR	4237	0	1771.89
WR	0	5165	-2454
SR	3278	840	496.18
NER	1516	37	602.54
BANGLADESH	946		651.87
NEPAL (via-CTU)	237		131.99
Total(Net)	7016	5165	1199.47
NEPAL by Bihar(NBPDCL)			43.67

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Aug-19		AUG-2018	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	28660		27205	1455	5.35
	HYDRO (MW)	5876	\$	5876	0	0
	DIESEL (MW)	0		0	0	0
	RES (MW)	1336		886	0	0
	TOTAL (MW)	35872		33967	1905	5.61
2)	Peak Demand (MW)	23421		22794	627	2.75
3)	Peak Demand Met (MW)	23398		22580	818	3.62
4)	Shortage (MW)	22		215	-193	-89.58
5)	% Shortage	0.10		0.94	-0.84	-89.82
6)	Average Energy Requirement Per Day (MU)	462.13		449.27	12.86	2.86
7)	Average Energy Availability Per Day (MU)	460.87		446.37	14.50	3.25
8)	Average Shortage Per Day (MU)	1.26		2.90	-1.64	-56.72
9)	% Shortage	0.27		0.65	-0.38	-58.22
10)	Net Generation for the Month					
	Thermal (MU)	10870.83		11236.38	-365.55	-3.25
	Hydro (MU)	3955.27	*	3398.11	557.16	16.40
	RES (MU)	43.42		0.00	0.00	-
	Total (MU)	14869.53		14662.83	206.70	1.41
11)	Generation at the Time of Max. Regional Demand Met (30-08-19 at 20.00 Hrs.)					
	Thermal (MW)	16806		16483	323	1.96
	Hydro (MW)	6442	*	6060	382	6.30
	RES(MW)	53		0	53	-
	Total (MW)	23301		22595	706	3.12
12)	Inter-Regional Energy Transfer					
	Export (MU)	3652.91		3491.03	161.88	4.64
	Import (MU)	2454.00		2083.04	370.96	17.81
	Net Exp.(+)/Net Imp.(-) (MU)	1198.90		1408.00	-209.10	-14.85
13)	Import From Captive(MU)	618.99		581.77	37.22	6.40
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 14-08-19 at 08.00Hrs	7016		6422	594	9.25
	Max Import (MW) on 04-08-19 at 14.00Hrs	5165		4357	808	18.54
	Max Net Export(+)/Import (-) (MW)	5241		4144	1097	26.48
15)	Maximum voltage recorded	424		BIHARSHARIFF 400 kv	s/s	
16)	Minimum voltage recorded	381		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 AUG'2019

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	109.12	109.91	0.78	0.71
JUVNL	24.44	24.57	0.13	0.52
DVC	60.47	60.49	0.01	0.02
ODISHA	94.32	94.34	0.02	0.02
WBSEDCL	136.71	137.21	0.50	0.36
CESC	34.20	34.21	0.01	0.02
SIKKIM	1.40	1.40	0.00	0.02
REGION	460.9	462.13	1.26	0.27

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5748	5778	30	0.52
JUVNL	1316	1316	0	0.00
DVC	2848	2855	7	0.24
ODISHA	4856	4856	0	0.00
WBSEDCL	7091	7098	8	0.11
CESC	1940	1942	2	0.1
SIKKIM	90	90	0	0.00
REGION	23398	23421	22	0.10

➤ **DIVERSITY FACTOR** **1.02**

➤ **Regional Peak Demand Met on 30-8-2019 at 20.00 hrs. at 50.02 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA AUGUST-19

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from Captive (MU)	Exchange Net Import(+) Net Export(-)	Energy Consumption(MU)	Per Day Cons.(MU)	Net Peak Demand	Gross Peak Demand
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total						
BSPHCL	0.00	112.54	22.76	135.30	0.00	14.71	0.00	14.71	0.00	97.83	22.76	120.58	0.00	3262.26	3382.84	109.1	5748	5780
JUVNL	0.69	213.36	0.00	214.05	0.00	22.18	0.00	22.18	0.69	191.18	0.00	191.87	52.07	513.83	757.77	24.4	1316	1353
DVC	29.66	2983.51	0.00	3013.17	0.15	226.88	0.00	227.03	29.51	2756.64	0.00	2786.14	18.12	-929.61	1874.66	60.5	2848	3178
ODISHA(OPGC+OHPC+TTPS)	815.59	388.21	16.80	1220.60	3.95	44.84	0.00	48.79	811.63	343.37	16.80	1171.80	423.61	1328.44	2923.85	94.3	4856	4902
WBPDC+WBSEDCL+DPL	187.74	1400.82	0.00	1588.57	0.00	148.97	0.00	148.97	187.74	1251.85	0.00	1439.59	125.20	2673.36	4238.15	136.7	7091	7355
CESC	0.00	566.82	0.00	566.82	0.00	43.66	0.00	43.66	0.00	523.16	0.00	523.16	0.00	537.05	1060.21	34.2	1940	2007
HEL	0.00	415.90	0.00	415.90	0.00	31.79	0.00	31.79	0.00	384.11	0.00	384.11	0.00	-384.11				
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	40.55	43.55	1.4	90	90
NTPC	0.00	4185.43	0.00	4185.43	0.00	315.72	0.00	315.72	0.00	3867.75	0.00	3867.75	0.00	-3867.75				
MPL	0.00	531.91	0.00	531.91	0.00	32.97	0.00	32.97	0.00	498.94	0.00	498.94	0.00	-498.94				
APNRL	0.00	297.48	0.00	297.48	0.00	25.19	0.00	25.19	0.00	272.29	0.00	272.29	0.00	-272.29				
GMR	0.00	216.98	0.00	216.98	0.00	19.07	0.00	19.07	0.00	197.91	0.00	197.91	0.00	-197.91				
JITPL	0.00	365.81	0.00	365.81	0.00	24.01	0.00	24.01	0.00	341.80	0.00	341.80	0.00	-341.80				
OPGC	0.00	151.53	0.00	151.53	0.00	9.47	0.00	9.47	0.00	142.06	0.00	142.06	0.00	-142.06				
NHPC (Inc TLDP= 189.75 MU)	583.51	0.00	0.00	583.51	0.00	0.00	0.00	0.00	583.51	0.00	0.00	583.51	0.00	-583.51	0.00			
CHPC(Birpara Receipt)	274.71	0.00	0.00	274.71	0.00	0.00	0.00	0.00	274.71	0.00	0.00	274.71	0.00	-274.71	0.00			
KHPS	71.02	0.00	0.00	71.02	0.00	0.00	0.00	0.00	71.02	0.00	0.00	71.02	0.00	-71.02	0.00			
THPS	569.10	0.00	0.00	569.10	0.00	0.00	0.00	0.00	569.10	0.00	0.00	569.10	0.00	-569.10	0.00			
DAGACHU HPS	69.05	0.00	0.00	69.05	0.00	0.00	0.00	0.00	69.05	0.00	0.00	69.05	0.00	-69.05	0.00			
Mangdechhu HEP	272.55	0.00	0.00	272.55	0.00	0.00	0.00	0.00	272.55	0.00	0.00	272.55	0.00	-272.55	0.00			
CHUZACHEN HPS	81.98	0.00	0.00	81.98	0.00	0.00	0.00	0.00	81.98	0.00	0.00	81.98	0.00	-81.98	0.00			
JORHANG HPS	68.69	0.00	0.00	68.69	0.00	0.00	0.00	0.00	68.69	0.00	0.00	68.69	0.00	-68.69	0.00			
TEESTA-III HPS	795.02	0.00	0.00	795.02	0.00	0.00	0.00	0.00	795.02	0.00	0.00	795.02	0.00	-795.02	0.00			
DIKCHU HPS	62.96	0.00	0.00	62.96	0.00	0.00	0.00	0.00	62.96	0.00	0.00	62.96	0.00	-62.96	0.00			
TASHIDING HPS	77.10	0.00	0.00	77.10	0.00	0.00	0.00	0.00	77.10	0.00	0.00	77.10	0.00	-77.10	0.00			
TALCHER SOLAR	0.00	0.00	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.00	-0.86				
Total Drawal by HVDC Sahsaram,Alipurduar														6.07				
Total	3959.38	11830.30	43.42	15833.09	4.11	959.47	0.00	963.57	3955.27	10868.88	43.42	14867.57	618.99	-1199.47	14287.09	460.9	23398	24421

3A

14867.57

14287.09

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

A) Net Average Energy

Month	2018-19					2019-20				
	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	393.59	396.98	3.39	0.85	49.96	428.71	429.56	0.85	0.20	50.00
MAY	420.52	425.36	4.84	1.14	49.94	451.15	452.79	1.64	0.36	49.99
JUNE	437.39	441.13	3.74	0.85	49.97	461.72	462.87	1.15	0.25	49.99
JULY	425.68	427.31	1.63	0.38	49.97	450.73	451.52	0.79	0.17	50.00
AUGUST	446.36	449.17	2.81	0.63	49.97	460.9	462.13	1.26	0.27	49.99
SEPTEMBER	440.53	448.47	7.94	1.77	49.96	-	-	-	-	-
OCTOBER	419.33	423.20	3.87	0.91	49.96	-	-	-	-	-
NOVEMBER	368.99	371.76	2.77	0.75	49.97	-	-	-	-	-
DECEMBER	340.51	342.17	1.66	0.49	49.96	-	-	-	-	-
JANUARY	355.14	357.42	2.29	0.64	49.98	-	-	-	-	-
FEBRUARY	356.66	357.25	0.59	0.17	49.99	-	-	-	-	-
MARCH	384.42	385.48	1.06	0.27	49.99	-	-	-	-	-

B) Peak in MW:

Month	2018-19					2019-20				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(HZ)
APRIL	21058	21128	70	0.33	49.96	22378	22415	37	0.17	50.00
MAY	21902	22012	111	0.50	49.94	22781	22830	49	0.22	49.99
JUNE	22080	22964	884	3.85	49.97	22808	22867	59	0.26	49.99
JULY	21790	21849	59	0.27	49.97	23154	23246	92	0.40	50.00
AUGUST	22580	22794	215	0.94	49.97	23398	23421	22	0.10	49.99
SEPTEMBER	22286	22815	529	2.32	49.96	-	-	-	-	-
OCTOBER	22733	23093	360	1.56	49.96	-	-	-	-	-
NOVEMBER	20322	20512	190	0.93	49.97	-	-	-	-	-
DECEMBER	18023	18049	25	0.14	49.96	-	-	-	-	-
JANUARY	18702	18783	81	0.43	49.98	-	-	-	-	-
FEBRUARY	18921	18923	2	0.01	49.99	-	-	-	-	-
MARCH	21221	21416	195	0.91	49.99	-	-	-	-	-

ENTITLEMENT,DRAWAL SCHEDULE(EX. BUS) AND ACTUAL DRAWAL FROM CENTRAL SECTOR GENERATION .

All figures are in MU

	FROM	Cumulative from 01-Apr-19 to 31/Jul/19		BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID	During July-19				
		ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)				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	1262.03	949.24				335.36	261.06			
	FARAKKA STPS III	175.32	130.66				0.00	0.00			
	KAHALGAON STPS I	830.75	718.10				176.20	147.30			
	KAHALGAON STPS II	166.03	171.69				48.15	51.15			
	TALCHER STPS I	931.84	906.25				237.27	231.74			
	MTPS-II	659.57	543.26				87.93	70.66			
	BRBCL	150.08	157.88				34.41	36.67			
	Rly BRBCL	153.69	122.56				42.59	29.19			
	BARH STPS II	3162.09	2954.67				814.76	716.25			
	RANGIT HEP	46.45	46.45				15.33	15.33			
	CHUKHA HEP	103.10	163.33				60.92	85.31			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	296.78	251.40				170.50	150.71			
	TEESTA HEP	264.50	264.50				73.10	73.10			
	TOTAL	8202.23	7380.01	3623.11	11136.78	11126.35	2096.53	1868.47	925.49	2761.72	2757.64
JUVNL	FARAKKA STPS I	344.66	263.70				91.59	69.93			
	FARAKKA STPS III	112.05	102.02				0.00	0.00			
	KAHALGAON STPS I	63.53	61.35				13.47	12.94			
	KAHALGAON STPS II	41.63	56.68				12.07	16.08			
	TALCHER STPS I	173.26	164.06				44.11	42.59			
	MTPS-II	30.20	34.49				4.03	4.03			
	BARH STPS II	248.87	199.66				63.59	48.87			
	RANGIT HEP	17.69	17.69				5.84	5.84			
	CHUKHA HEP	37.37	59.20				22.08	30.92			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	133.38	112.98				76.62	67.73			
	TEESTA HEP	153.52	153.52				42.43	42.43			
	TOTAL	1356.17	1225.37	869.90	2113.01	2123.54	375.84	341.36	285.26	501.84	505.28
DVC	FARAKKA STPS I	0.00	0.00				0.00	0.00			
	FARAKKA STPS III	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	1.07	0.00				0.00	0.00			
	TALCHER STPS I	9.80	4.08				1.15	1.06			
	MTPS-II	71.85	20.20				3.05	2.85			
	BRBCL	118.26	842.54				53.33	61.33			
	RANGIT HEP	16.32	13.27				4.38	4.38			
	CHUKHA HEP	34.27	57.16				21.32	29.86			
	KIRUCHHU HEP	35.04	19.16				15.99	8.68			
	TALA HPS	80.03	54.62				37.04	32.74			
	TEESTA HEP	199.33	107.49				29.71	29.71			
	TOTAL	445.22	1118.52	-5696.51	-5377.01	-146.64	165.96	170.61	-1388.95	-1219.92	1224.33
GRIDCO	FARAKKA STPS I	565.03	470.30				151.50	152.53			
	FARAKKA STPS III	113.38	109.15				0.00	0.00			
	KAHALGAON STPS I	313.08	329.65				66.40	69.79			
	KAHALGAON STPS II	87.37	186.81				25.34	59.10			
	TALCHER STPS (Stg-I	730.75	726.27				186.07	186.79			
	TALCHER STPS (Stg-II	0.00	0.00				0.00	0.00			
	MTPS-II	75.02	2.98				10.00	0.82			
	BARH STPS II	0.00	0.00				0.00	0.00			
	RANGIT HEP	0.00	0.00				0.00	0.00			
	CHUKHA HEP	52.85	83.73				31.23	43.74			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	49.89	41.90				28.42	25.12			
	TEESTA HEP	256.16	256.16				70.80	70.80			
	TOTAL	2243.55	2206.96	1460.03	3993.09	4181.64	569.76	608.69	415.38	1102.68	1169.35
WBSEDCL	FARAKKA STPS I	1320.36	1211.06				350.87	336.11			
	FARAKKA STPS III	254.92	217.54				0.00	0.00			
	KAHALGAON STPS I	138.71	139.64				29.42	31.80			
	KAHALGAON STPS II	30.64	57.97				8.89	27.35			
	TALCHER STPS I	228.85	219.16				58.27	57.51			
	MTPS-II	84.76	75.72				11.30	11.75			
	RANGIT HEP	37.61	37.61				12.41	12.41			
	CHUKHA HEP	111.51	175.57				65.49	91.70			
	KIRUCHHU HEP	26.88	19.16				15.99	8.68			
	TALA HPS	449.02	377.11				255.75	226.06			
	TEESTA HEP	298.34	298.34				82.45	82.45			
	TOTAL	2981.62	2828.88	4094.63	7156.54	7272.40	890.84	885.83	1303.92	2174.08	2256.58
SIKKIM	FARAKKA STPS I	65.52	40.21				17.41	10.23			
	FARAKKA STPS III	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	30.76	22.44				6.52	4.67			
	KAHALGAON STPS II	11.00	9.36				3.19	2.87			
	TALCHER STPS I	54.22	49.73				13.81	12.83			
	MTPS-II	4.87	4.42				0.65	0.61			
	BARH STPS II	46.32	32.44				11.83	8.53			
	RANGIT HEP	17.69	17.69				5.84	5.84			
	CHUKHA HEP	7.77	12.24				4.56	6.39			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TEESTA HEP	164.10	164.10				45.35	45.35			
	TOTAL	402.27	352.62	-81.67	161.89	157.53	109.17	97.31	-56.31	37.78	37.33
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	-884.54	-753.97				-256.52	-193.25			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BARH STPS II	0.00	0.00				0.00	0.00			
	BRBCL	-471.55	-359.31				-97.08	-74.39			
	TOTAL	-1356.09	-1113.29	1635.19	1851.20	3762.55	-353.60	-267.65	412.72	1208.76	2177.62
SR	FARAKKA STPS I	-82.06	-89.68				-21.81	-26.39			
	FARAKKA STPS III	-4.85	-5.06				0.00	0.00			
	KAHALGAON STPS I	-27.43	-31.26				-5.82	-7.32			
	KAHALGAON STPS II	-25.44	-31.04				-7.38	-10.57			
	TALCHER STPS STG-I	-35.31	-18.81				-8.99	-8.94			
	MTPS-II	-2.45	-4.90				-0.33	-1.13			
	BARH STPS II	-23.72	-24.71				-6.06	-7.40			
	TOTAL	-201.27	-205.45	-1678.51	-4162.75	-5183.96	-50.38	-61.75	295.48	-860.06	-1017.57
NR	FARAKKA STPS I	-229.11	-194.84				-60.88	-58.25			
	KAHALGAON STPS I	-495.18	-386.04				-105.02	-83.78			
	KAHALGAON STPS II	-1870.09	-1491.57				-542.33	-423.19			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BRBCL	-482.72	-374.97				-114.82	-104.77			
	TALA HPS	-176.09	-147.89				-100.29	-88.65			
	TOTAL	-3253.19	-2595.31	-4715.71	-6860.85	-8147.61	-923.35	-758.63	-1730.00	-2387.43	-2536.71
WR+SR+NR (GRAND TOTAL)		-4810.56	-3914.05	-4759.03	-9172.41	-9569.02	-1327.33	-1088.03	-1021.80	-2038.74	-1376.66
NER	FARAKKA STPS I	-133.08	-105.78				-35.37	-28.07			
	FARAKKA STPS III	-0.61	-0.73				0.00	0.00			
	KAHALGAON STPS I	-58.64	-53.65				-12.43	-11.85			
	KAHALGAON STPS II	-172.89	-143.02				-50.14	-42.98			
	TALCHER STPS I	-66.66	-64.55				-16.98	-16.55			
TOTAL		-431.87	-367.73	207.18	533.73	-106.54	-114.92	-99.45	84.07	319.79	-245.94

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF AUGUST'2019

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 (2019-20) in MU	Cummulative Net Energy Generation upto Current Month (2019-20) in MU
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	3.57	3.14	12.13	10.51
		Muzaffarpur Stg-I	220.00	220.00	108.97	94.69	510.86	447.23
		Thermal Total	440.00	430.00	112.54	97.83	522.99	457.74
	RES		327.90	327.90	22.76	22.76	126.18	126.18
		Total BIHAR	767.90	757.90	135.30	120.58	649.17	583.92
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	213.36	191.18	1020.62	896.00
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.69	0.69	1.36	1.36
	RES		39.00	39.00	0.00	0.00	0.00	0.00
	Total	169.00	169.00	0.69	0.69	1.36	1.36	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	26.85	10.82	88.08	62.83
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	209.44	187.28	1552.73	1403.92
		Durgapur(4)	210.00	210.00	45.68	39.15	154.34	128.87
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	697.83	626.67	3527.97	3165.49
		Mezia(U # 7,8)	1000.00	1000.00	300.70	282.27	2297.37	2169.19
		Bokaro-A(1)	500.00	500.00	271.88	268.44	1390.33	1323.84
		Durgapur STPS (U#1,2)	1000.00	1000.00	493.92	463.42	2886.50	2722.57
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	529.46	497.11	2340.20	2196.43
		Koderma STPS (U#1,2)	1000.00	1000.00	407.75	381.46	2856.30	2694.02
	Total Thermal	7100.00	7090.00	2983.51	2756.64	17093.82	15867.16	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	5.70	5.66	9.05	8.90
		Panchet (U#1,2)	80.00	80.00	23.96	23.86	35.71	35.38
		Tilaya (U#1,2)	4.00	4.00	0.00	0.0	0.00	0.0
		Hydro Total	147.20	147.20	29.66	29.51	44.77	44.24
		Total DVC	7247.20	7237.20	3013.17	2786.14	17138.58	15911.40
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	40.79	33.79	492.07	434.14
		Santalidih TPS(U#5&6)	500.00	500.00	264.25	241.33	1645.37	1513.32
		Kolaghat TPS	1260.00	1260.00	212.79	183.68	1807.04	1602.97
		Bakreswar TPP	1050.00	1050.00	344.28	307.70	2810.93	2551.23
		Sagardighi TPP	1600.00	1600.00	383.08	345.29	2776.59	2519.87
		DPPS (110+300+250 *)	660.00	660.00	155.64	140.05	1114.93	997.42
		Thermal Total	5450.00	5405.00	1400.82	1251.85	10646.93	9618.94
WBSSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	27.07	27.07	107.80	107.80
		Ramam (4x12.73)	51.00	51.00	38.08	38.08	114.25	114.25
		Teesta C.F. (3x3x7.3)	67.30	67.30	10.14	10.14	17.17	17.17
		Purulia PSS (4x225)	900.00	900.00	112.46	112.46	495.61	495.61
		Total Hydro	1053.30	1053.30	187.74	187.74	734.82	734.82
		RES	407.15	407.15	0.00	0.00	0.48	0.48
➤ Chandrapura #1 is retired on 17.01.17 ➤ Patratu # 1,2,3,5,8 are retired on 21.12.16								

ORGANI- SATION	TYPE	POWER STATION	INSTALLED	EFFECTIVE	Gross	Net	Cummulative Gross	Cummulative Net
			CAPACITY	CAPACITY	Energy	Energy	Energy Generation	Energy Generation
			(in MW)	(in MW)	Generation in MU	Generation in MU	upto Current Month (2019-20) in MU	upto Current Month (2019-20) 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	26.72	24.26	210.07	189.71
		Budge-Budge (3x250)	750.00	750.00	540.11	498.90	2658.48	2453.28
		Total CESC	1125.00	1125.00	566.82	523.16	2868.55	2642.99
HEL	Thermal	HEL	600.00	600.00	415.90	384.11	1995.14	1841.20
		Total West Bengal	8635.45	8590.45	2571.29	2346.86	16245.92	14838.43
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	82.60	70.21	765.55	680.72
		Talcher-II	220.00	220.00	70.89	60.61	684.99	609.94
		Total Thermal	470.00	460.00	153.48	130.82	1450.54	1290.67
OPGC	Thermal	IB TPS	420.00	420.00	127.11	111.66	1136.43	1009.97
		IB TPS U#3(660 MW)	660.00	660.00	107.61	100.88	338.88	307.52
		IB TPS U#4(660 MW)			151.53	142.06	293.27	274.93
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	69.22	68.87	202.75	201.21
		Hirakud-II (Chiplima)	72.00	72.00	31.76	31.61	109.79	109.03
		Balimela (6x60+2x75)	510.00	510.00	166.51	165.68	775.20	769.91
		Rengali (5x50)	250.00	250.00	73.93	73.56	174.55	173.48
		Upper Kolab (4x80)	320.00	320.00	92.67	92.21	349.21	346.68
		Indravati HPS (4x150)	600.00	600.00	356.72	354.94	962.86	955.32
		Mckd.(Odisha drawal)	57.38	57.38	24.77	24.77	129.87	129.87
		Total Hydro	2084.88	2084.88	815.59	811.63	2704.23	2685.49
		RES	499.76	499.76	16.80	16.80	125.96	125.96
		Total Odisha	4794.64	4784.64	1220.60	1178.53	5756.04	5448.65
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00	3.00	13.00	13.00
NTPC		MTPS Stg-II	390.00	390.00	132.594	116.69	923.98	826.58
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	991.88	910.78	4737.29	4361.02
		FSTPP (U# 6)	500.00	500.00	132.81	124.72	749.06	697.07
		KhSTPP (4x210+3x500)	2340.00	2340.00	1398.90	1295.27	6695.10	6189.32
		TSTPP (2x500)	1000.00	1000.00	330.91	297.14	2699.23	2473.66
		BARH STPS II (2X660)	1320.00	1320.00	847.72	801.07	4257.11	4031.19
		BRBCL # 1,2,3(3X250 MW)	750	750	348.67	322.08	1884.37	1742.49
		NPGC			1.95	1.95	214.08	214.08
		Total NTPC	7900.00	7900.00	4185.43	3869.71	22160.22	20511.91
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	43.81	43.81	177.49	177.49
		Teesta (3x170)	510.00	510.00	349.95	349.95	1621.19	1621.19
		TLDP -(4x33+4x40)	292.00	292.00	189.75	189.75	735.12	735.12
		Total NHPC	862.00	862.00	583.51	583.51	2533.80	2533.80
		MPL (U#1&2)	1050.00	1050.00	531.91	498.94	2581.34	2423.75
		APNRL (U#1,2)	540.00	540.00	297.48	272.29	1294.92	1177.82
		GMR (2x350)	700.00	700.00	216.98	197.91	1703.81	1582.69
		JITPL (2X600)	1200.00	1200.00	365.81	341.80	2106.92	1966.17
		CHUZACHEN** (2x55)	110.00	110.00	81.98	81.98	280.19	280.19
		JORETHANG (2x48)	96.00	96.00	68.69	68.69	208.39	208.39
		TEESTA URJA St III (6x200)	1200.00	1200.00	795.02	795.02	3653.66	3653.66
		Tashilding (2x48.5)	97.00	97.00	77.10	77.10	225.59	225.59
		DICKCHU (2x48)	96.00	96.00	62.96	62.96	296.00	296.00
		TALCHER SOLAR	10.00	10.00	0.86	0.86	5.73	5.73
		Total Thermal (E.R)	28735.00	28660.00	11830.30	10870.83	67262.13	61918.48
		Total Hydro (E.R)	5876.38	5876.38	2702.94	2698.83	10682.79	10663.53
EASTERN REGIONAL		Total RES	1335.92	1335.92	43.42	43.42	271.35	271.35
		TOTAL (E.R)	35947.30	35872.30	14576.66	13613.09	78216.27	72853.36
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	274.71	274.71	942.88	942.88
		Kurichu (4x15)	60.00	60.00	71.02	71.02	206.99	206.99
		TALA (6x170)	1020.00	1020.00	569.10	569.10	1556.42	1556.42
		DAGACHU (2x63)	126.00	126.00	69.05	69.05	184.81	184.81
		MANGDECHU(4x180)	720.00	720.00	272.55	272.55	544.31	544.31
		Grand Total	38233.30	38068.30	15833.10	14869.53	81651.68	76288.77

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF AUGUST' 2019

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	(%)	(2019-20) in MU	(%)	
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	3.57	2.28	12.13	1.57	
		Muzaffarpur Stg-I	220.00	220.00	108.97	66.58	510.86	63.24	
		Thermal Total	440.00	430.00	112.54	35.18	522.99	33.12	
	RES		327.90	327.90	22.76		126.18		
	Total BIHAR		767.90	757.90	135.30		649.17		
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	213.36	68.28	1020.62	66.18	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.69		1.36		
	RES		39.00	39.00	0.00		0.00		
	Total		169.00	169.00	0.69		1.36		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	26.85	17.19	88.08	11.42	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	209.44	56.30	1552.73	84.57	
		Durgapur(4)	210.00	210.00	45.68	29.24	154.34	20.02	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	697.83	70.00	3527.97	71.70	
		Mezia(U # 7,8)	1000.00	1000.00	300.70	40.42	2297.37	62.56	
		Bokaro-A(1)	500.00	500.00	271.88	73.09	1390.33	75.73	
		Durgapur STPS (U#1,2)	1000.00	1000.00	493.92	66.39	2886.50	78.61	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	529.46	59.30	2340.20	53.11	
		Koderma STPS (U#1,2)	1000.00	1000.00	407.75	54.80	2856.30	77.79	
	Total Thermal		7100.00	7090.00	2983.51	56.56	17093.82	65.66	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	5.70		9.05		
		Panchet (U#1,2)	80.00	80.00	23.96		35.71		
		Tilaya (U#1,2)	4.00	4.00	0.00		0.00		
Hydro Total			147.20	147.20	29.66		44.77		
Total DVC		7247.20	7237.20	3013.17		17138.58			
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	380.00	335.00	40.79	16.36	492.07	40.00	
		Santaldih TPS(U#5&6)	500.00	500.00	264.25	71.04	1645.37	89.62	
		Kolaghat TPS	1260.00	1260.00	212.79	22.70	1807.04	39.06	
		Bakreswar TPP	1050.00	1050.00	344.28	44.07	2810.93	72.91	
		Sagardighi TPP	1600.00	1600.00	383.08	32.18	2776.59	47.26	
		DPPS (110+300+250 *)	660.00	660.00	155.64	31.70	1114.93	46.00	
		Thermal Total		5450.00	5405.00	1400.82	34.83	10646.93	54.71
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	27.07		107.80		
		Ramam (4x12.73)	51.00	51.00	38.08		114.25		
		Teesta C.F. (3x3x7.3)	67.30	67.30	10.14		17.17		
		Purulia PSS (4x225)	900.00	900.00	112.46		495.61		
		Total Hydro		1053.30	1053.30	187.74		734.82	
		RES		407.15	407.15	0.00		0.48	

WBPDC, Bandel TPS Unit #3 & Unit #4 (IC=2X82.5 MW, EC=2X60 MW) decommissioned from 01.04.2018.

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 (2019-20) 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	26.72	26.60	210.07	42.38
		Budge-Budge (3x250)	750.00	750.00	540.11	96.79	2658.48	96.53
		Total CESC	1125.00	1125.00	566.82	67.72	2868.55	69.44
HEL	Thermal		600.00	600.00	415.90	93.17	1995.14	90.56
		Total West Bengal	8635.45	8590.45	2571.29		16245.92	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	82.60	46.26	765.55	86.87
		Talcher-II	220.00	220.00	70.89	43.31	684.99	84.79
		Total Thermal	470.00	460.00	153.48	44.85	1450.54	85.88
OPGC	Thermal	IB TPS	420.00	420.00	127.11	40.68	1136.43	73.69
		IB TPS U#3(660 MW)	660.00	660.00	107.61	21.92	338.88	0.00
		IB TPS U#4(660 MW)			151.53		293.27	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	69.22		202.75	
		Hirakud-II (Chiplima)	72.00	72.00	31.76		109.79	
		Balimela (6x60+2x75)	510.00	510.00	166.51		775.20	
		Rengali (5x50)	250.00	250.00	73.93		174.55	
		Upper Kolab (4x80)	320.00	320.00	92.67		349.21	
		Indravati HPS (4x150)	600.00	600.00	356.72		962.86	
		Mckd.(Odisha drawal)	57.38	57.38	24.77		129.87	
		Total Hydro	2084.88	2084.88	815.59		2704.23	
		RES	499.76	499.76	16.80		125.96	
		Total Odisha	4794.64	4784.64	1220.60		5756.04	
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00		13.00	
NTPC		MTPS Stg-II	390	390	132.594	45.70	923.98	64.52
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	991.88	83.32	4737.29	80.63
		FSTPP (U# 6)	500.00	500.00	132.81	35.70	749.06	40.80
		KhSTPP (4x210+3x500)	2340.00	2340.00	1398.90	80.35	6695.10	77.92
		TSTPP (2x500)	1000.00	1000.00	330.91	44.48	2699.23	73.51
		BARH STPS II (2X660)	1320.00	1320.00	847.72	86.32	4257.11	87.83
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	348.67	62.48	1884.37	68.42
		NPGC			1.95		214.08	
		Total NTPC	7900.00	7900.00	4185.43	71.18	22160.22	76.39
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	43.81		177.49	
		Teesta (3x170)	510.00	510.00	349.95		1621.19	
		TLDP -(4x33+4x40)	292.00	292.00	189.75		735.12	
		Total NHPC	862.00	862.00	583.51		2533.80	
	Thermal	MPL (U#1&2)	1050.00	1050.00	531.91	68.09	2581.34	66.95
		APNRL (U#1,2)	540.00	540.00	297.48	74.04	1294.92	65.31
		GMR (2x350)	700.00	700.00	216.98	41.66	1703.81	66.29
		JITPL (2X600)	1200.00	1200.00	365.81	40.97	2106.92	47.82
		CHUZACHEN** (2x55)	110.00	110.00	81.98		280.19	
		JORETHANG (2x48)	96.00	96.00	68.69		208.39	
		TEESTA URJA St III (6x200)	1200.00	1200.00	795.02		3653.66	
		Tashilding (2x48.5)	97.00	97.00	77.10		225.59	
		DICKCHU (2x48)	96.00	96.00	62.96		296.00	
		TALCHER SOLAR	10.00	10.00	0.86		5.73	
		Total Thermal (E.R)	28735.00	28660.00	11830.30	55.70	67262.13	65.57
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2702.94		10682.79	
		Total RES	1335.92	1335.92	43.42		271.35	
		TOTAL (E.R)	35947.30	35872.30	14576.66		78216.27	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	274.71		942.88	
	Hydro	Kurichu (4x15)	60.00	60.00	71.02		206.99	
	Hydro	TALA (6x170)	1020.00	1020.00	569.10		1556.42	
	Hydro	DAGACHU (2x63)	126.00	126.00	69.05		184.81	
		MANGDECHU(4x180)	720.00	720.00	272.55		544.31	
		Grand Total	38233.30	38068.30	15833.10		81651.68	

➤ Regional PLF has been calculated without considering the effective capacity of IBTPS-U#4, (660 MW) and New Nabinagar TPS U#1(660 MW) and their generations of 66.50 MU & 128.66 MU respectively during the month of July'19

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF AUG'2019 (30-8-2019)

Date **30-Aug-19**
Time **20.00** Hrs.
Frequency **50.02** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	768	758	0	105	0	105
JUVNL	589	589	0	269	0	269
DVC	7247	7237	48	4366	0	4414
ODISHA	4795	4785	1582	706	53	2340
WBSEDCL	6250	6205	907	1895	0	2801
TLDP	292	292	249	0	0	249
HEL HALDIA	600	600	0	538	0	538
CESC	1125	1125	0	833	0	833
DPL	660	660	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	7900	7900	0	5560	0	5560
NHPC	570	570	585	0	0	585
CHUKHA	360	270	303	0	0	303
KURICHU	60	60	70	0	0	70
TALA	1020	1020	626	0	0	626
MPL	1050	1050	0	985	0	985
OPGC (660 MW)	0	0	0	328	0	328
APNRL	540	540	0	477	0	477
Kamalganga (GMR)	700	700	0	297	0	297
JITPL	1200	1200	0	448	0	448
Chuzachen	110	110	115	0	0	115
Jorethang	96	96	82	0	0	82
TEESTA URJA St III	1200	1200	1260	0	0	1260
Tashilding	97	97	105	0	0	105
DICKCHU	96	96	76	0	0	76
<u>Daghachu</u>	126	126	57	0	0	57
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	378	0	0	378
<u>Total</u>	38233	38068	6442	16806	53	23301
Import From Captive:						789
Export To:						
NER						1111
SR						675
WR						-3768
NR						1557.11
Bangladesh						906.25
Nepal						210.72
Total						692

➤ I Net Peak Demand Met (MW) :

23398

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of AUG'2019 (30-8-2019)

(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	4249	15793	20041	708	1564	1017	21296	26	14	21335
2	4221	15861	20082	693	1570	1237	21109	-20	7	21116
3	4226	15769	19994	737	1573	1496	20808	-22	6	20814
4	4083	15831	19915	730	1579	1479	20744	-33	0	20744
5	4105	16111	20216	713	1564	1715	20778	-11	0	20778
6	4135	16316	20450	695	1496	2778	19864	-5	1	19865
7	4179	16435	20614	684	1477	4100	18675	54	12	18741
8	4244	16403	20647	604	1486	3991	18745	-16	53	18782
9	4331	16268	20599	553	1496	3560	19088	2	78	19168
10	4392	16515	20907	547	1507	3573	19389	41	80	19509
11	4345	16520	20865	584	1482	3172	19758	-9	69	19819
12	4262	16442	20704	594	1500	2865	19933	-2	38	19970
13	4188	16393	20581	585	1442	2749	19859	-21	26	19864
14	4199	16133	20333	619	1451	2428	19974	-3	19	19989
15	4169	16187	20356	615	1470	2239	20202	-11	15	20207
16	4314	16236	20549	592	1406	2232	20315	4	17	20336
17	4221	16268	20489	595	1327	2662	19749	-22	18	19767
18	4209	16166	20375	667	1348	3111	19280	-10	4	19283
19	4857	16478	21336	764	1359	1378	22080	6	24	22110
20	5062	16806	21869	790	1432	692	23398	-12	35	23421
21	5028	16847	21875	771	1480	766	23360	39	34	23433
22	4971	16887	21858	799	1495	969	23182	55	61	23298
23	4985	16030	21015	745	1496	956	22301	6	64	22371
24	4609	16327	20936	742	1508	1341	21845	-17	35	21862

Hourly Load Generation Data of ER On Regional Lean Day During The Month of AUG'2019 (8-8-2019)

(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	2933	13947	16880	530	1733	751	18392	-13	23	18402
2	2779	13618	16397	515	1755	1268	17399	-33	33	17432
3	2735	12454	15189	489	1755	962	16471	-4	65	16531
4	2516	12228	14743	467	1756	1175	15790	-15	80	15855
5	2509	12127	14636	489	1749	1556	15318	-9	89	15398
6	2641	12270	14911	470	1729	2205	14905	3	120	15028
7	2624	13365	15989	440	1724	3364	14790	32	83	14905
8	2438	14317	16755	357	1738	4368	14482	-14	78	14546
9	2371	13527	15898	349	1618	4096	13769	10	51	13830
10	2388	13024	15412	363	1576	3581	13770	-13	46	13803
11	2460	12826	15286	367	1578	3232	13999	-10	33	14022
12	2356	12720	15076	377	1570	3056	13966	-12	31	13986
13	2400	12644	15044	377	1720	2944	14197	-40	28	14226
14	2439	12600	15039	363	1778	2879	14300	-15	30	14315
15	2524	13101	15625	366	1770	2975	14785	47	20	14852
16	2497	14003	16500	382	1767	3410	15239	-13	17	15243
17	2444	14126	16569	442	1761	3327	15446	19	10	15475
18	2492	14236	16728	402	1745	3323	15552	18	9	15579
19	2809	14854	17663	586	1719	2612	17356	62	9	17428
20	3288	15914	19202	576	1717	2277	19217	55	7	19279
21	3479	16321	19800	609	1728	2522	19615	91	5	19711
22	3502	16075	19577	556	1739	2040	19833	76	83	19992
23	3430	15680	19110	579	1752	1776	19665	83	4	19751
24	3723	15173	18896	540	1754	1340	19850	33	4	19887

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

FOR THE MONTH OF AUG'2019

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 23.51 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 3.83 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.00 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 14.57 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-19

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.	
E	05	10	17	22	24	24	50.1		50.05	HZ			HZ	HZ			HZ	
01-Aug	50.01	49.97	50.02	49.94	49.97	49.99	12.50	66.90	20.60	66.90	50.21	13:01:40	49.68	20:41:00	50.11	0:00	49.76	0:00
02-Aug	49.98	49.97	50.01	49.97	49.99	49.99	7.30	79.60	13.10	79.60	50.25	13:04:10	49.81	16:58:10	50.20	0:00	49.88	0:00
03-Aug	49.99	50.00	49.99	49.97	49.97	49.99	7.40	80.50	12.10	80.50	50.18	18:02:10	49.71	16:15:00	50.07	0:00	49.82	0:00
04-Aug	49.99	50.01	50.02	49.94	50.03	50.00	8.20	67.60	24.20	67.60	50.20	14:04:00	49.77	20:56:30	50.13	0:00	49.85	0:00
05-Aug	50.01	49.98	50.01	49.98	50.03	50.00	4.10	73.80	22.10	73.80	50.17	13:04:10	49.82	05:12:10	50.12	0:00	49.88	0:00
06-Aug	50.03	50.01	50.02	50.02	50.01	50.02	2.00	66.20	31.80	66.20	50.23	13:02:00	49.82	06:13:0	50.12	0:00	49.91	0:00
07-Aug	50.03	50.01	50.02	49.99	50.04	50.01	3.64	63.84	32.44	63.84	50.23	13:03:10	49.82	21:07:40	50.12	0:00	49.87	0:00
08-Aug	50.03	49.99	50.01	49.91	49.92	49.98	15.24	60.84	23.92	60.84	50.24	13:03:20	49.69	22:17:50	50.16	0:00	49.79	0:00
09-Aug	50.01	49.99	50.01	49.98	50.02	50.00	7.80	69.40	22.80	69.40	50.21	13:02:30	49.77	13:57:40	50.11	0:00	49.86	0:00
10-Aug	50.01	50.04	49.99	49.93	49.91	49.99	14.00	64.30	21.70	64.30	50.21	10:03:10	49.68	14:21:00	50.14	0:00	49.75	0:00
11-Aug	49.96	49.98	50.00	49.93	49.97	49.97	16.40	71.70	11.90	71.70	50.17	08:02:30	49.72	22:16:10	50.08	0:00	49.80	0:00
12-Aug	50.00	49.98	50.01	49.93	50.00	49.98	7.30	77.50	15.20	77.50	50.13	17:02:50	49.66	19:27:50	50.08	0:00	49.71	0:00
13-Aug	50.02	49.99	50.01	50.00	50.03	50.01	3.40	75.60	21.00	75.60	50.14	19:01:20	49.81	07:21:40	50.09	0:00	49.86	0:00
14-Aug	50.00	50.01	50.00	50.01	50.02	50.01	1.20	73.80	25.00	73.80	50.18	22:01:10	49.85	18:27:20	50.11	0:00	49.89	0:00
15-Aug	50.02	50.08	50.11	49.98	50.00	50.05	4.14	47.04	48.82	47.04	50.32	09:34:10	49.85	19:13:20	50.27	0:00	49.72	0:00
16-Aug	50.02	50.00	50.02	50.02	50.00	50.01	4.60	61.80	33.60	61.80	50.13	11:19:10	49.85	05:13:10	50.09	0:00	49.88	0:00
17-Aug	49.98	49.97	49.98	50.00	50.02	49.98	4.90	80.90	14.20	80.90	50.13	11:19:10	49.59	05:13:10	50.09	0:00	49.88	0:00
18-Aug	50.02	49.97	49.99	49.90	49.99	49.97	12.30	73.60	14.10	73.60	50.14	03:03:50	49.67	19:11:10	50.12	0:00	49.74	0:00
19-Aug	49.96	50.01	50.01	49.94	49.94	49.98	12.30	69.10	18.60	69.10	50.17	13:05:20	49.55	19:10:50	50.10	0:00	49.76	0:00
20-Aug	49.99	49.97	49.98	49.88	49.95	49.96	16.00	77.70	6.30	77.70	50.11	09:00:30	49.75	19:19:00	50.04	0:00	49.67	0:00
21-Aug	49.96	49.99	50.00	49.99	50.02	49.99	5.90	77.70	16.40	77.70	50.15	16:02:30	49.81	00:08:10	50.09	0:00	49.83	0:00
22-Aug	49.95	49.99	50.00	50.01	49.99	49.99	3.84	79.42	16.74	79.42	50.14	13:06:20	49.85	22:30:10	50.08	0:00	49.88	0:00
23-Aug	50.00	50.02	49.99	50.02	50.02	50.01	1.50	81.60	17.00	81.60	50.16	18:00:40	49.85	11:26:10	50.08	0:00	49.91	0:00
24-Aug	49.99	50.02	50.01	50.00	50.01	50.00	3.00	75.00	22.00	75.00	50.18	13:01:50	49.82	00:08:00	50.09	0:00	49.89	0:00
25-Aug	50.00	49.98	50.00	50.01	50.03	50.00	4.20	73.90	21.80	73.90	50.16	16:02:30	49.76	06:14:40	50.07	0:00	49.86	0:00
26-Aug	50.02	49.99	50.00	49.99	49.99	50.00	3.30	80.60	16.10	80.60	50.15	01:04:50	49.80	06:11:50	50.09	0:00	49.86	0:00
27-Aug	49.99	49.97	49.99	49.93	49.88	49.96	15.90	74.40	9.70	74.40	50.16	08:02:30	49.72	18:58:20	50.07	0:00	49.76	0:00
28-Aug	49.99	49.97	49.99	49.98	50.00	49.99	7.20	78.20	14.60	78.20	50.16	16:04:00	49.71	19:13:00	50.09	0:00	49.84	0:00
29-Aug	49.97	49.98	49.99	50.01	49.99	49.99	6.90	76.30	16.80	76.30	50.23	18:04:40	49.72	06:46:50	50.11	0:00	49.82	0:00
30-Aug	50.02	49.98	50.01	49.98	50.01	50.00	5.50	75.60	18.90	75.60	50.18	16:02:00	49.78	21:04:30	50.10	0:00	49.84	0:00
31-Aug	49.98	50.02	49.99	50.01	50.01	50.00	3.80	78.40	17.80	78.40	50.14	15:03:40	49.83	18:48:40	50.07	0:00	49.88	0:00
MAX	50.03	50.08	50.11	50.02	50.04	50.05	16.40	81.60	48.82	81.60	50.32		49.85		50.27		49.91	
MIN	49.95	49.97	49.98	49.88	49.88	49.96	1.20	47.04	6.30	47.04	50.11		49.55		50.04		49.67	
AVG	50.00	50.00	50.01	49.97	49.99	49.99	7.28	72.67	20.04	72.48	50.18		49.75		50.11		49.83	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.32 Hz at 09:34 Hrs.

Minimum Frequency : 49.55 Hz at 19:19 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.27 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.67 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	7.28	72.67	20.04

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF AUG'2019

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	419	398	423	403	423	381	424	396

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	385	413	396	414	403	421	406

ANNEXURE-III

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 48.6 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-19

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-08-19)	(31-08-18)		
Hirakud	192	180	189.89	189.93	182.94	01.08.19
Balimela	462	439	454.70	460.95	445.77	01.08.19
Rengali	123	109	121.82	121.30	111.24	01.08.19
Upperkolab	858	844	853.46	856.05	849.22	01.08.19
Indravati	642	625	640.34	640.04	633.65	01.08.19
Subernrekha	590	580	587.62	586.86	585.09	01.08.19

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Aug-19

(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	52.07
West Bengal	62.99	22.50	0	0	0	0	0	39.71	125.20
ODISHA	0	0	49.06	100.62	4.22	1.25	0	268.47	423.61
DVC	0	0	0	0	0	0	18.12	0	18.12
TOTAL	62.99	22.50	49.06	100.62	4.22	1.25	18.12	308.17	618.99

C.

Distribution of Schedule Supply among Key Customers by IPPs during

Aug-19

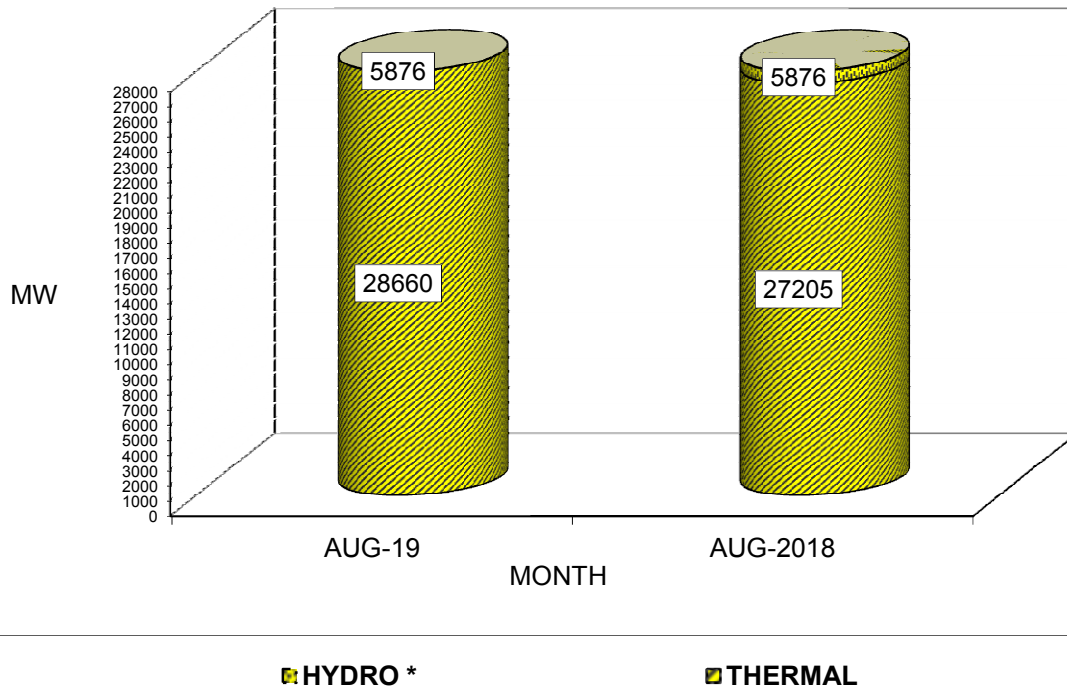
(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	152.60	153.14	86.70	0.00	0	0	104.92	497.36
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	39.82	0	31.26	0.00	135.94	71.83	278.85
Total	152.60	192.96	86.70	31.26	0.00	135.94	176.75	776.21

Task/ Works performed by ERPC during AUGUST, 2019		
Sl. No.	Period	Date of Report
1	DSM, RRAS Accounts 170619-230619(Revision-I)	02.08.2019
2	DSM Account 240619-300619(Revision-I)	02.08.2019
3	DSM Account 010719-070719(Revision-I)	02.08.2019
4	Progress Report-June 2019	02.08.2019
5	REA July 2019	05.08.2019
6	AS-3 format of MPL from 16.05.2019-15.08.2019	05.08.2019
7	DC-MPL-July 2019	06.08.2019
8	DC- Teesta III – July 2019	06.08.2019
9	VAR Account 150719-210719	06.08.2019
10	Bilateral REA for July -2019	06.08.2019
11	DSM, RRAS, FRAS & SCED Accounts 150719-210719 & RRAS 080719-140719(Revision-I)	06.08.2019
12	REA Bhutan July-19	08.08.2019
13	RTA July-2019	09.08.2019
14	DSM, RRAS, FRAS & SCED Accounts 220719-280719 & Revised RRAS A/c 150719-210719	14.08.2019
15	Revised AS-3 format of Kahalgaon STPP 16.07.19-15.08.19	14.08.2019
16	AS-3 Format 16.08.19-15.09.19	14.08.2019
17	VAR Account 220719-280719	14.08.2019
18	TSTPP-I Re-allocation of share w.e.f 24.08.2019	23.08.2019
19	BRBCL Re-allocation of share w.e.f 26.08.2019	23.08.2019
20	DSM Account 220719-280719(Revision-I)	26.08.2019
21	DSM, RRAS, FRAS & SCED Account 290419-040819	26.08.2019
22	VAR Account 290719-040819	26.08.2019
23	Annual Report 2018-19	27.08.2019
24	DSM, RRAS & FRAS Account 050819-110819	30.08.2019
25	SCED Account 050819-110819	30.08.2019
26	Mangdechhu HEP,Bhutan share allocation w.e.f 01.09.2019	30.08.2019
27	URS July-19	30.08.2019
28	VAR Account 050819-110819	30.08.2019
29	Provisional Power Supply Position for July-2019	07.08.2019
30	Transmission System Availability Certificate for CBPTCL Transmission Elements for May-19 & June-19	09.08.2019
31	Transmission System Availability Certificate for Powerlinks Transmission Elements for May-19 & June-19	09.08.2019
32	Transmission System Availability Certificate for TPTL Transmission Elements for May-19 & June-19	09.08.2019
33	Transmission System Availability Certificate for PKTCL Transmission Elements for May-19 & June-19	09.08.2019
34	Transmission System Availability Certificate for OGPTL Transmission Elements for May-19 & June-19	09.08.2019
35	Transmission System Availability Certificate for DMTCL Transmission Elements for May-19 & June-19	09.08.2019
36	Transmission System Availability Certificate for Powergrid Transmission Elements for May-19 & June-19	09.08.2019
37	Transmission System Availability Certificate for ENICL Transmission Elements for May-19 & June-19	09.08.2019
38	Monthly progress report for the month of July-19	30.08.2019
39	Revised Power Supply Position for July-2019	30.08.2019

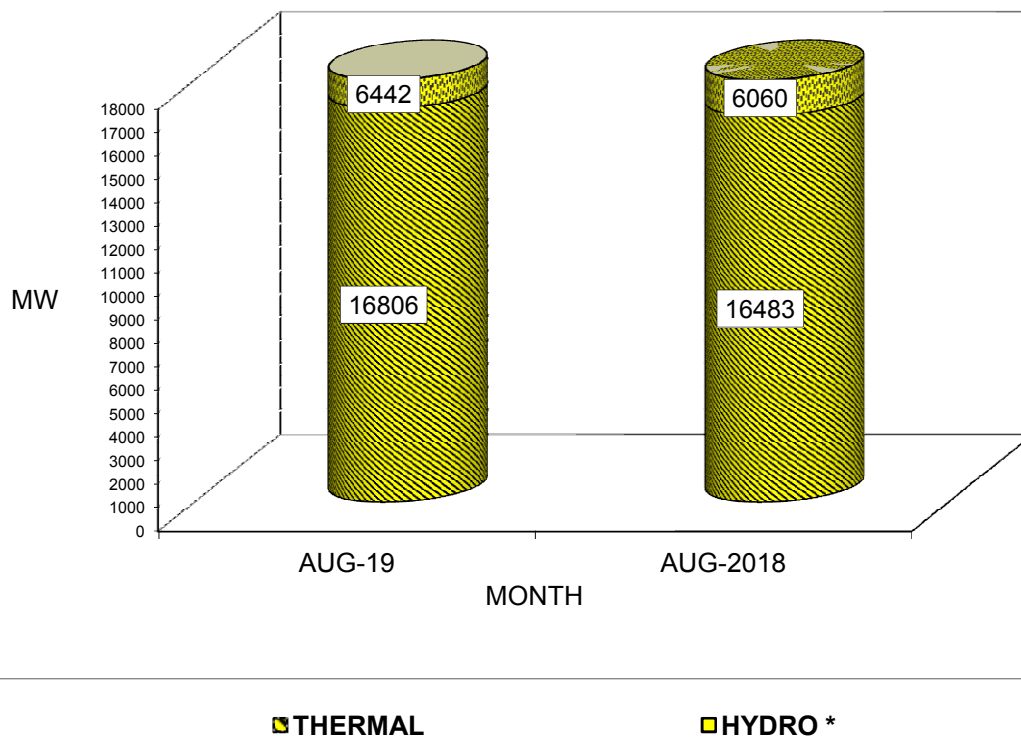
List of Meetings / Workshops held during AUGUST, 2019			
Sl. No.	Description	Date	Venue
1	Meeting on Nabinagar Issues	02.08.2019	ERPC, Kolkata
2	Meeting with Transmission Licensees	02.08.2019	ERPC, Kolkata
3	OCC Shutdown Meeting	08.08.2019	ERLDC, Kolkata
4	Special Meeting on S/d of 400 kV Farakka -Gokarno Line II	08.08.2019	ERPC, Kolkata
5	160th OCC Meeting	09.08.2019	ERPC, Kolkata
6	Meeting with CPWD	09.08.2019	ERPC, Kolkata
7	2nd Meeting on S/d of 400 kV Farakka -Gokarno Line II	14.08.2019	ERPC, Kolkata
8	82nd PCC Meeting	19.08.2019	ERPC, Kolkata
9	41st TCC Meeting	26.08.2019	Kochi
10	41st ERPC Meeting	27.08.2019	Kochi

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



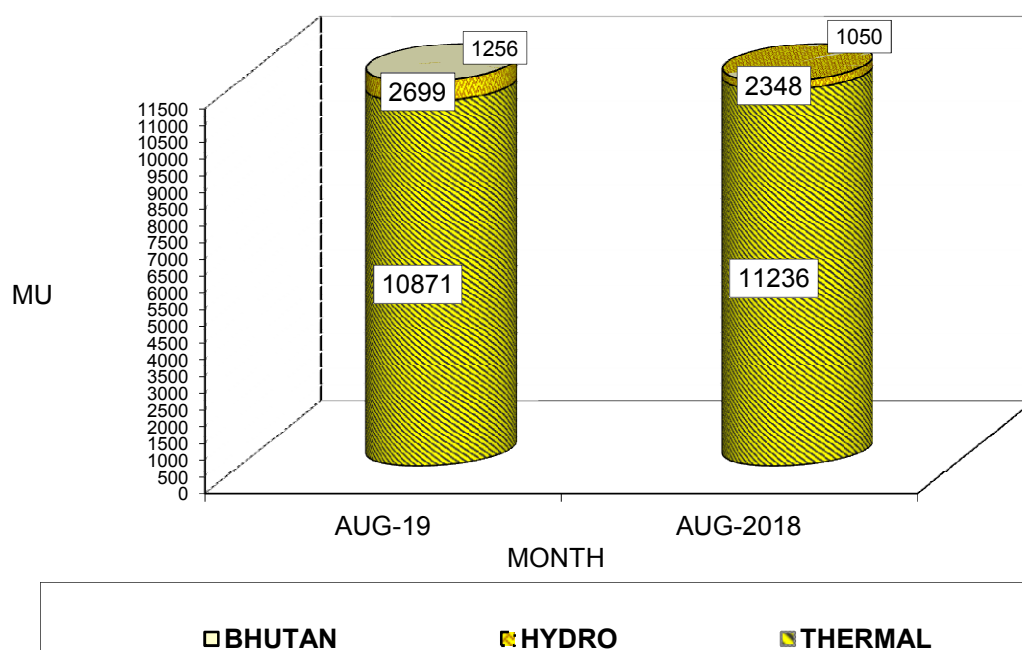
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

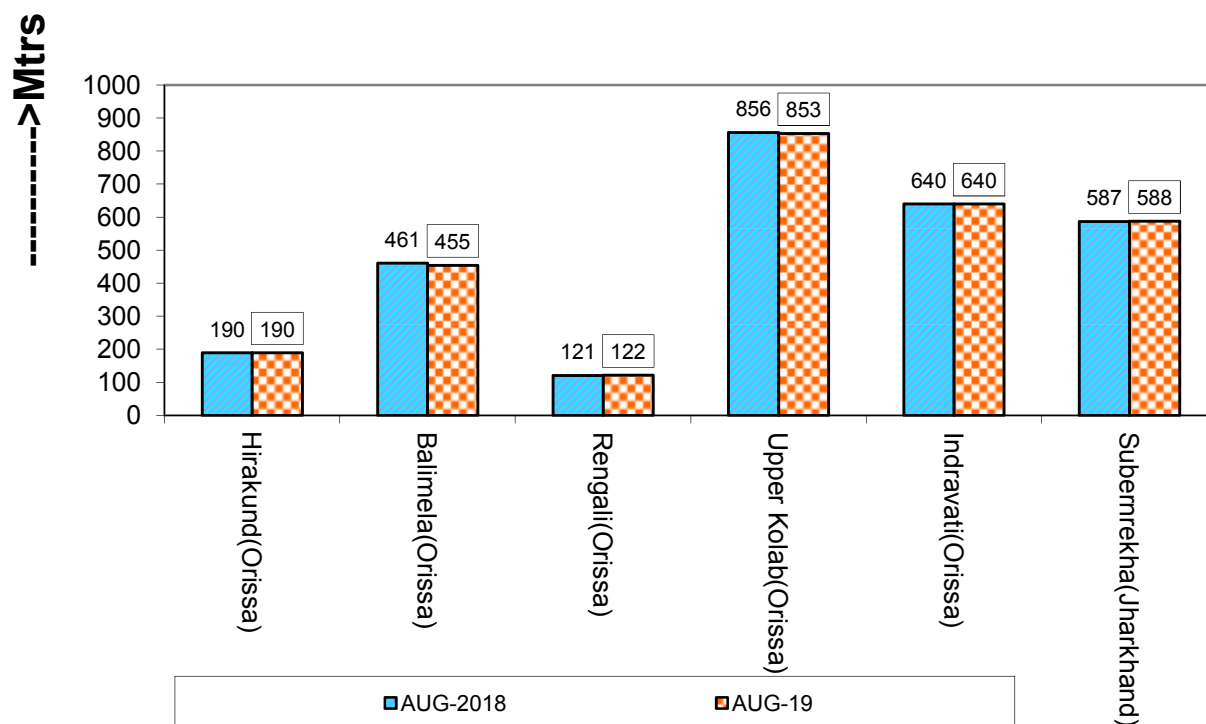


*Includes contribution from HEP of Bhutan

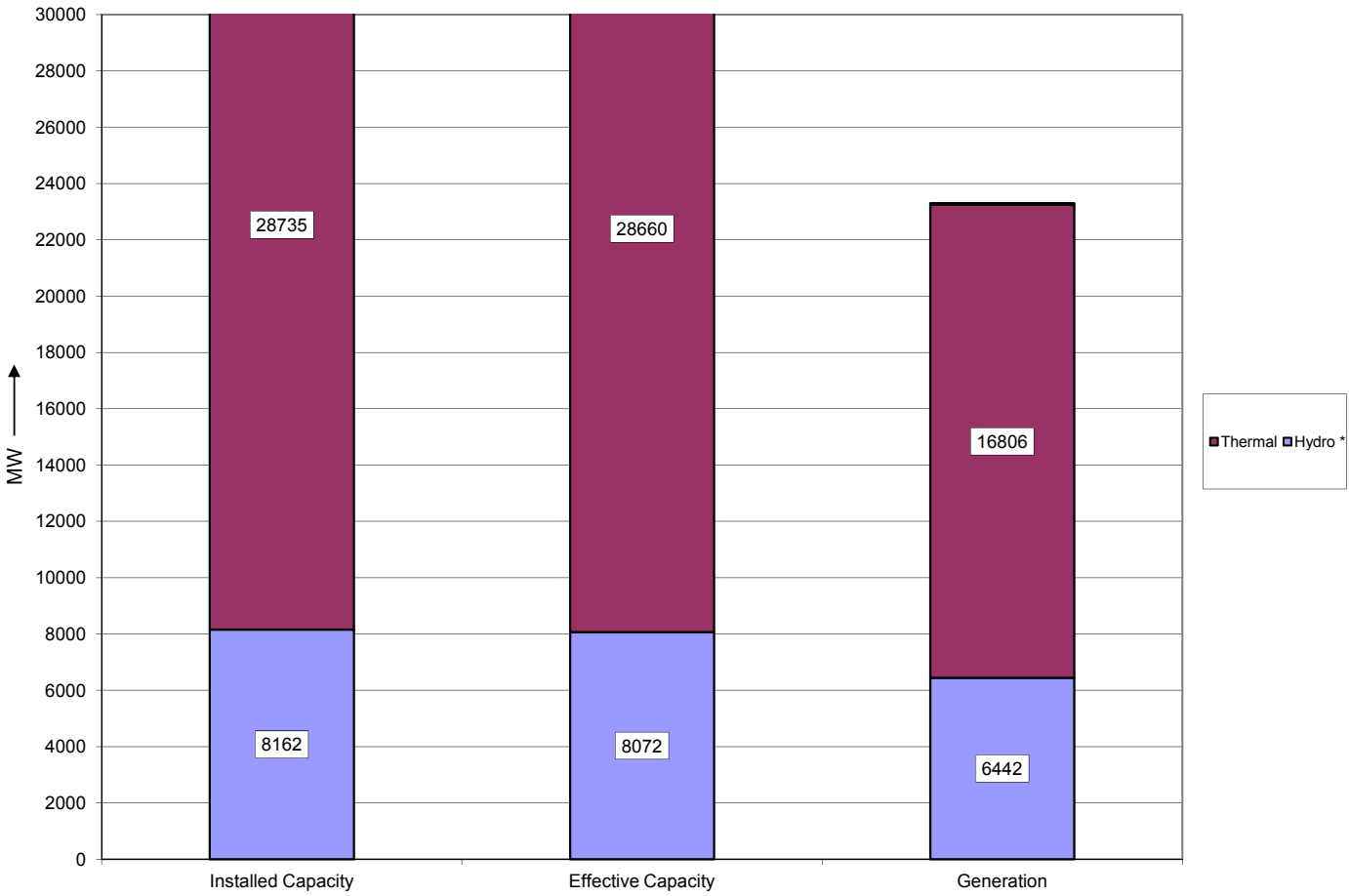
NET ENERGY GENERATION



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

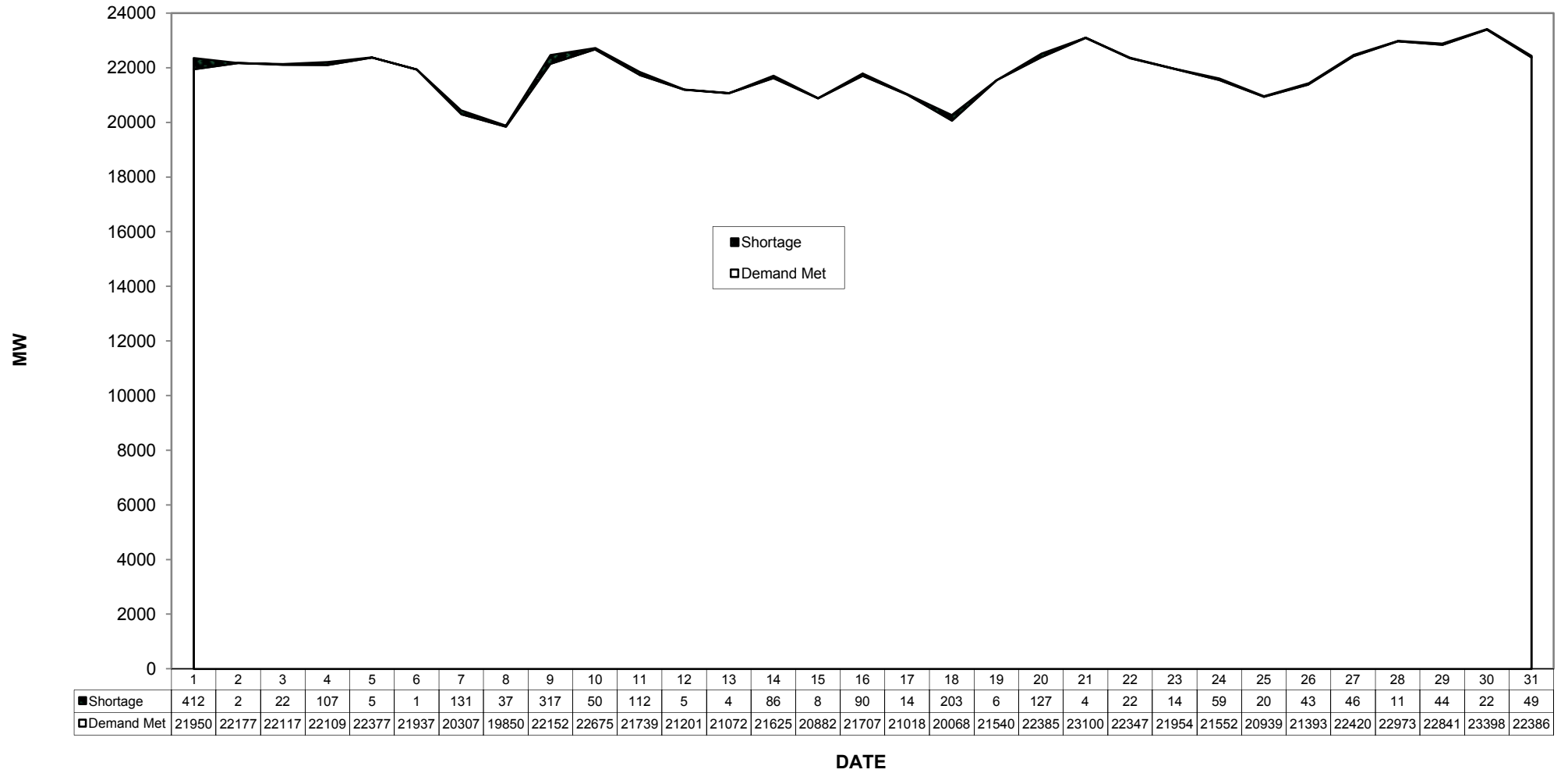


Capacity / Actual Generation Pattern of ER on Peak Day (30-8-2019) at 20.00 hrs.

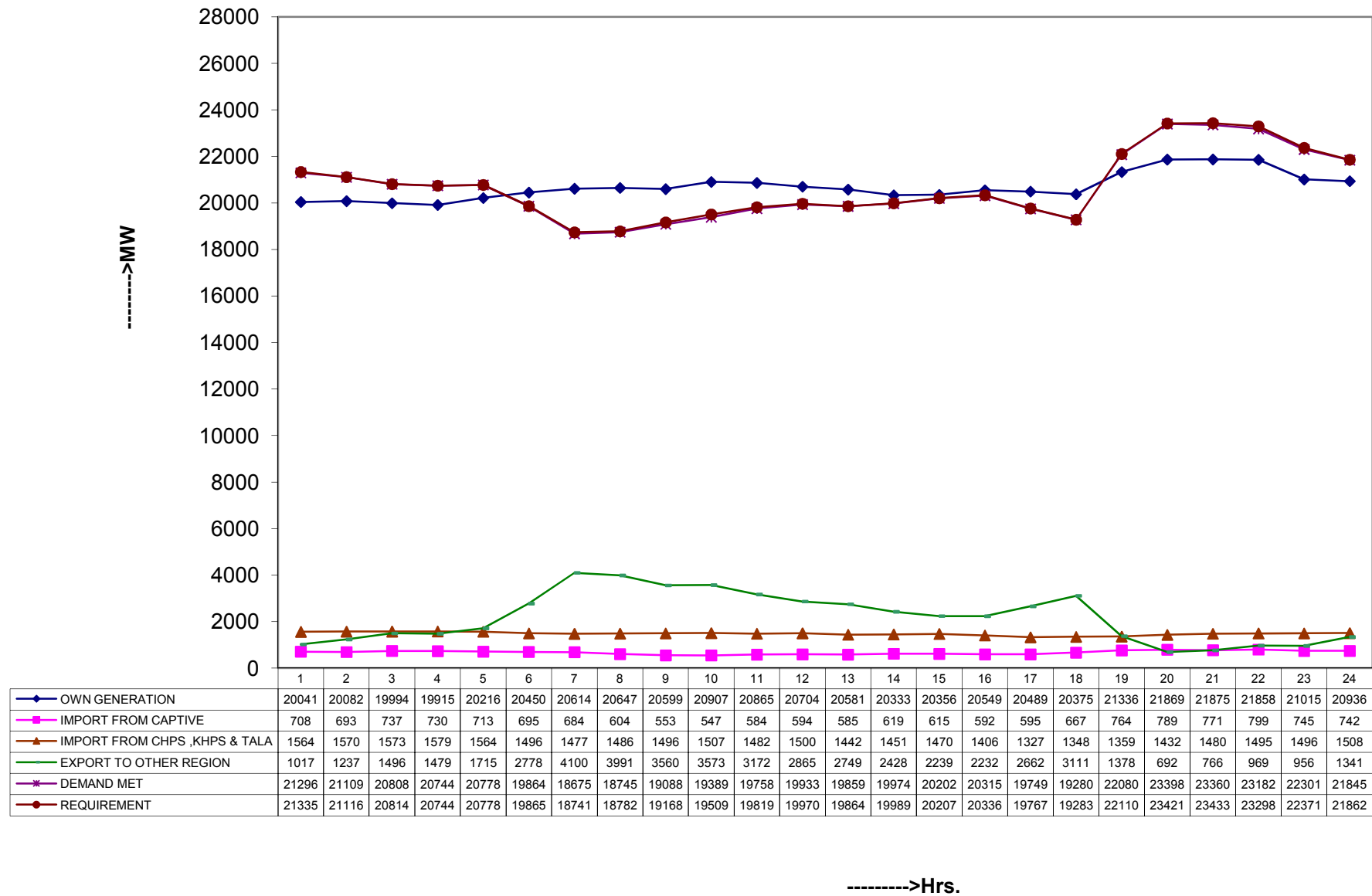


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

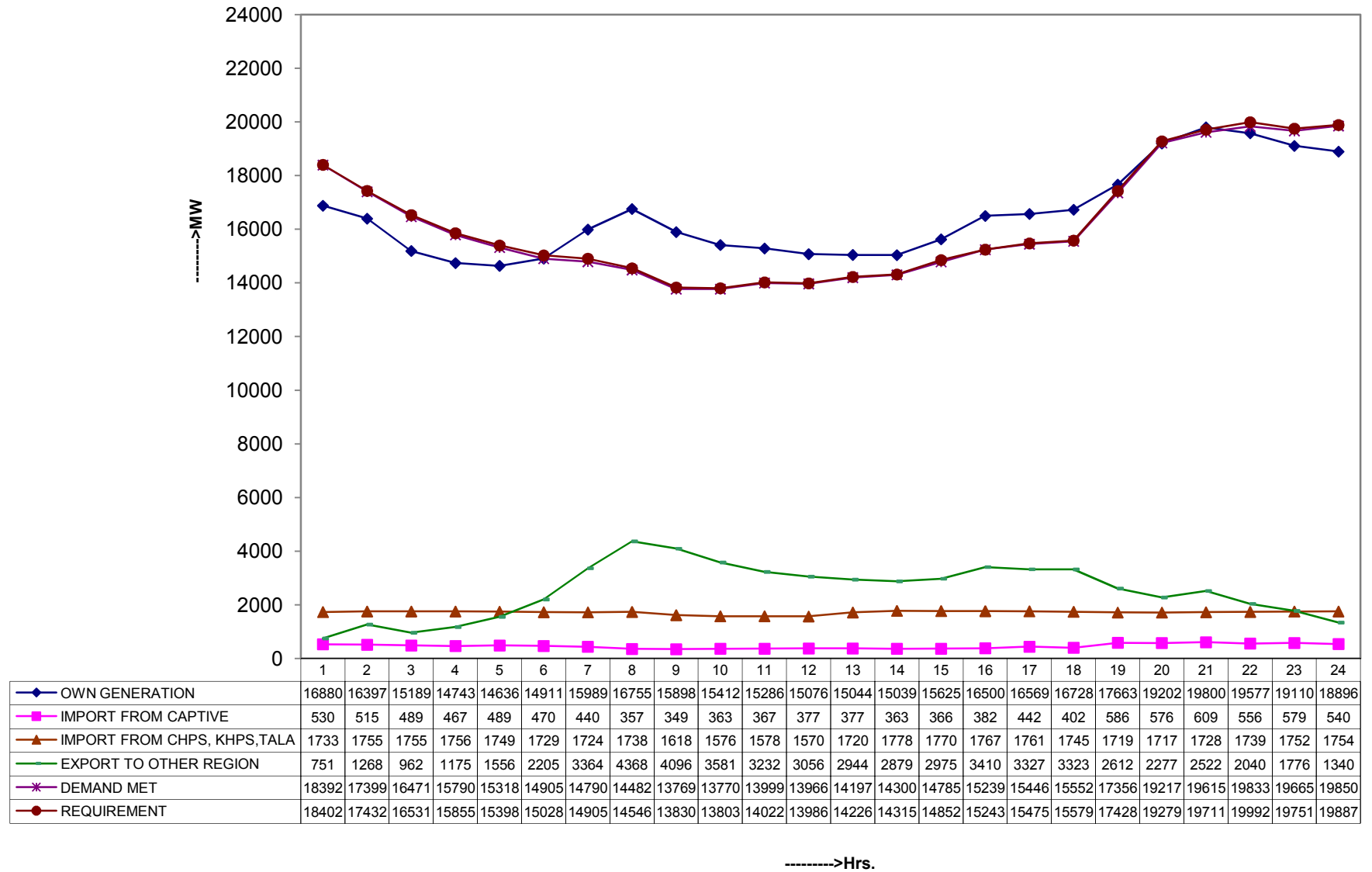
Peak Demand Met / Shortage of Eastern Region For The Month Of AUG'2019



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of AUG'2019 (30-8-2019)

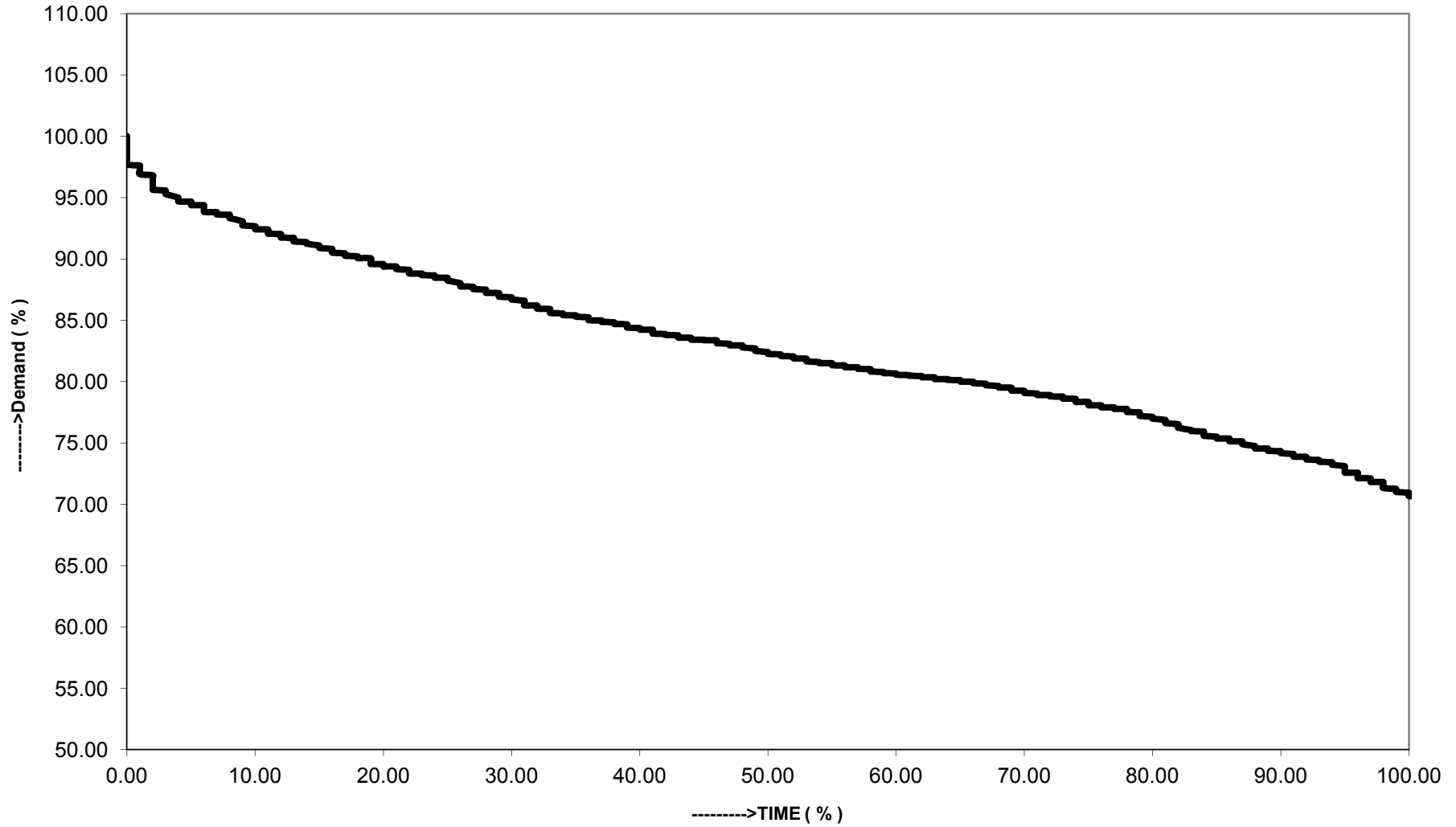


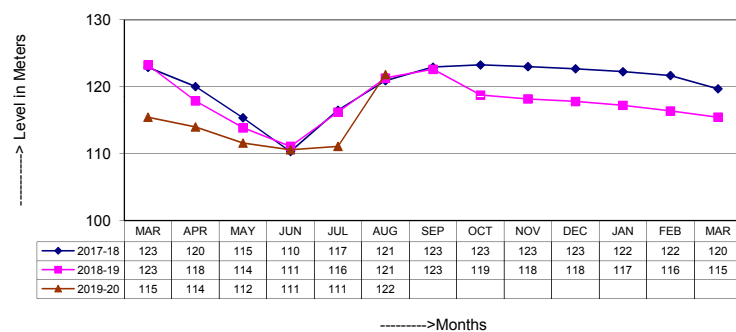
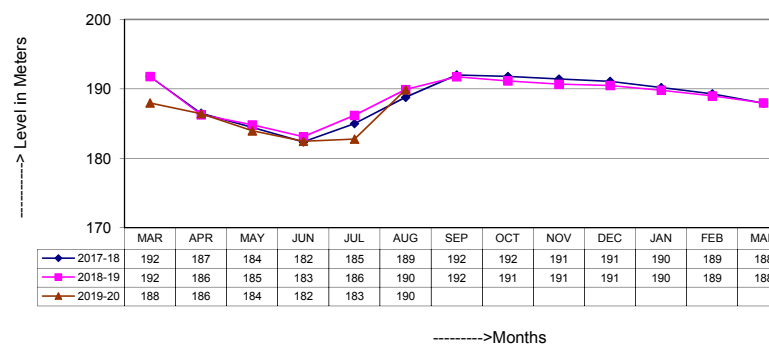
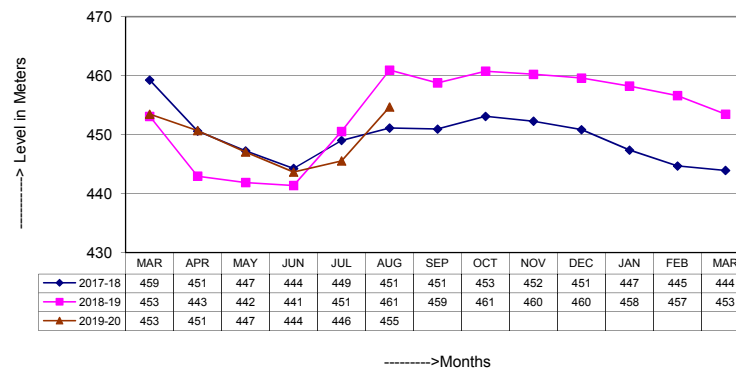
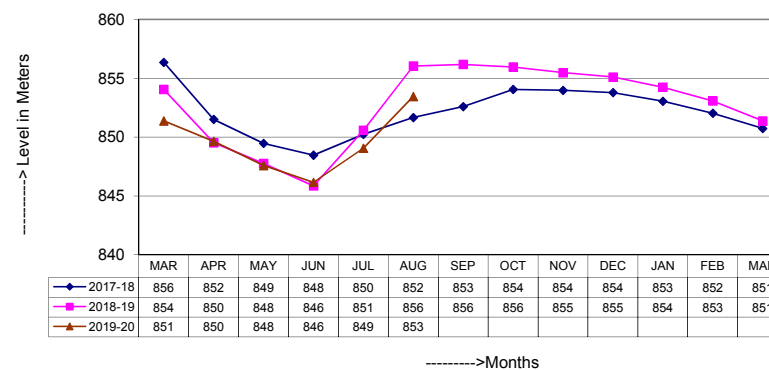
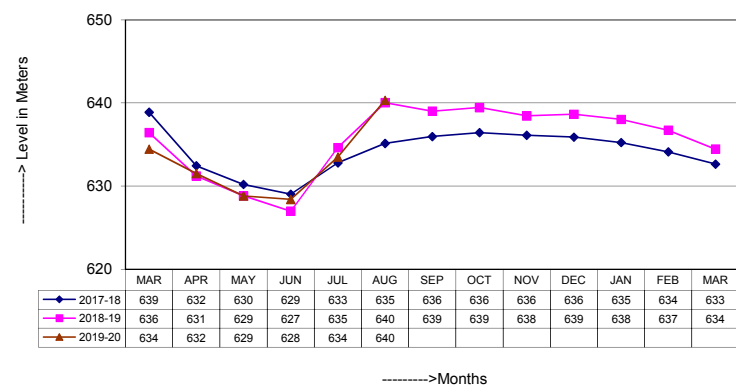
Hourly Load Generation Data of ER On Regional Lean Day During The Month of AUG'2019 (8-8-2019)



Monthly Load Duration Curve of Eastern Region for AUG-19

Maximum Demand met : 23398 MW
Minimum Demand met: 13769 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**