



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

सितंबर - 2018

September - 2018



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for September-2018

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Sep, 2018** was **22286MW** which is 9.88% more than the **Sep, 2017** (20283 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 **Sep, 2018** was **440.53 MU** excluding export, which is 5.22% more than the corresponding period of last year (418.66 MU).
- The **Average regional PLF of thermal units during the month** is **58.23%**, which is 0.15% more than the corresponding period of the last year (**58.08%**).
- **CESC (Budge- Budge)** registered the highest **PLF** of **100.15 %**, followed by DVC, (CTPS U#7&8), 98.13% HEL 97.55% and NTPC (FSTPP#I&II) 89.11 % during the month of **Sep, 2018**.
- **Maximum Net generation** of ER was **20592 MW** against total **Effective Capacity of 35443 MW** (including import from Bhutan). At the time of Regional peak (22286 MW on 29.09.2018 at 22.00 hrs.) the generation was 20329 MW and import from CPP was 595 MW, Net import was 1362 MW.
- The system frequency in the recommended band (49.9 Hz to 50.05 Hz) remained for 80.31% of time during the month. **Average frequency** for the month was **49.96 Hz**. The instantaneous maximum and the minimum frequency touched were 50.20 Hz and 49.57 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.11 Hz** and **49.64 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **424 KV** at Jeerat 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 **6681 MW** (including Nepal and Bangladesh) on **5th September, 2018** at 7:00 hrs. Total net energy export during the month was **1491.80 MU** which is corresponds to 10.56 % of ex-bus total generation (14116.43 MU) of Eastern Region.
- The import from CPPs was **591.35 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	3875	1657	1171.63
WR	0	4645	-1991.88
SR	3061	351	1190.06
NER	2094	192	489.85
BANGLADESH	823	0	507.57
NEPAL (CTU)	243	0	124.58
Total(Net)	5310		1491.8
NEPAL by Bihar(NBPDCL)			49.50

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Sep-18	SEP-2017	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	27205	28760	-1555	-5.41
	HYDRO (MW)	5876	5754	122	2
	DIESEL (MW)	0	7	-7	0
	RES (MW)	886	10	0	0
	TOTAL (MW)	33967	34531	-564	-1.63
2)	Peak Demand (MW)	22815	20670	2145	10.38
3)	Peak Demand Met (MW)	22286	20283	2003	9.88
4)	Shortage (MW)	529	387	142	36.68
5)	% Shortage	2.32	1.87	0.45	23.98
6)	Average Energy Requirement Per Day (MU)	448.47	420.98	27.49	6.53
7)	Average Energy Availability Per Day (MU)	440.53	418.66	21.87	5.22
8)	Average Shortage Per Day (MU)	7.94	2.32	5.62	242.23
9)	% Shortage	1.77	0.02	1.75	7531.09
10)	Net Generation for the Month				
	Thermal (MU)	10490.32	10800.00	-309.68	-2.87
	Hydro (MU)	3596.11	3098.73	497.38	16.05
	RES (MU)	30.01	0.00	0.00	-
	Total (MU)	14116.43	13917.86	198.57	1.43
11)	Generation at the Time of Max. Regional Demand Met (29-09-18 at 22.00 Hrs.)				
	Thermal (MW)	15135	15348	-213	-1.39
	Hydro (MW)	5137	5003	134	2.68
	RES(MW)	56	0	56	-
	Total (MW)	20329	20351	-22	-0.11
12)	Inter-Regional Energy Transfer				
	Export (MU)	3483.76	2883.82	599.94	20.80
	Import (MU)	1991.88	1020.77	971.11	95.14
	Net Exp.(+)/Net Imp.(-) (MU)	1491.88	1862.85	-370.97	-19.91
13)	Import From Captive(MU)	591.35	1443.29	-851.94	-59.03
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 05-09-18 at 07.00Hrs	6681	5222	1459	27.95
	Max Import (MW) on 30-09-18 at 22.00Hrs	5715	3133	2582	82.41
	Max Net Export(+)/Import (-) (MW)	5310	4467	843	18.88
15)	Maximum voltage recorded	424	JEERAT	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	94.78	96.35	1.57	1.63
JUVNL	24.43	24.99	0.56	2.26
DVC	58.33	63.39	5.05	7.97
ODISHA	97.73	97.87	0.14	0.14
WBSEDCL	123.65	124.43	0.78	0.63
CESC	34.22	34.27	0.05	0.14
DPL	5.84	5.85	0.01	0.14
SIKKIM	1.31	1.31	0.00	0.14
REGION	440.53	448.47	7.94	1.77

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4992	4993	2	0.03
JUVNL	1250	1251	2	0.12
DVC	2764	2766	2	0.06
ODISHA	4936	4950	15	0.30
WBSEDCL	6759	6796	36	0.54
CESC	1932	1944	12	0.6
DPL	273	274	0	0.08
SIKKIM	85	86	1	1.16
REGION	22286	22815	529	2

➤ **DIVERSITY FACTOR** **1.03**

➤ **Regional Peak Demand Met on 29-9-2018 at 22.00 hrs. at 49.97 Hz.**

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CONSTITUENT-WISE PERFORMANCE DATA SEP-18

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from	Exchange	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total	Captive (MU)	Net Import(+) Net Export(-)	Consumption(MU)	Cons.(MU)	Demand	Demand
BSPHCL	0.00	12.25	15.68	27.93	0.00	2.50	0.00	2.50	0.00	9.75	15.68	25.43	0.00	2818.02	2843.45	94.8	4992	4992
JUVNL	50.02	106.07	0.00	156.09	0.00	12.35	0.00	12.35	50.02	93.72	0.00	143.74	42.06	547.11	732.91	24.4	1250	1273
DVC	43.45	2444.64	0.00	2488.09	0.17	186.88	0.00	187.05	43.27	2257.76	0.00	2301.04	9.72	-560.76	1750.00	58.3	2764	3013
ODISHA(OPGC+OHPC+TTPS)	1030.42	505.55	9.90	1545.87	8.83	59.50	0.00	68.33	1021.59	446.05	9.90	1477.53	431.21	1023.15	2931.89	97.7	4936	5030
WBPDC+WBSEDCL	166.99	1527.00	0.00	1693.99	0.00	157.19	0.00	157.19	166.99	1369.81	0.00	1536.80	108.36	2064.39	3709.55	123.7	6759	7017
DPL	0.00	145.57	0.50	146.07	0.00	16.58	0.00	16.58	0.00	128.99	0.50	129.49	0.00	46.25	175.74	5.9	273	308
CESC	0.00	568.31	0.00	568.31	0.00	43.67	0.00	43.67	0.00	524.64	0.00	524.64	0.00	501.98	1026.63	34.2	1932	2003
HEL	0.00	421.40	0.00	421.40	0.00	31.88	0.00	31.88	0.00	389.52	0.00	389.52	0.00	-389.52				
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	36.27	39.27	1.3	85	85
NTPC	0.00	4148.98	0.00	4148.98	0.00	299.88	0.00	299.88	0.00	3849.11	0.00	3849.11	0.00	-3849.11				
BRBCL	0.00	154.80	0.00	154.80	0.00	13.60	0.00	13.60	0.00	141.20	0.00	141.20	0.00	-141.20				
MPL	0.00	471.99	0.00	471.99	0.00	29.75	0.00	29.75	0.00	442.24	0.00	442.24	0.00	-442.24				
APNRL	0.00	210.57	0.00	210.57	0.00	18.00	0.00	18.00	0.00	192.57	0.00	192.57	0.00	-192.57				
GMR	0.00	378.49	0.00	378.49	0.00	21.76	0.00	21.76	0.00	356.73	0.00	356.73	0.00	-356.73				
JITPL	0.00	310.26	0.00	310.26	0.00	22.03	0.00	22.03	0.00	288.23	0.00	288.23	0.00	-288.23				
NHPC (Inc TLDP= 182.27 MU)	562.13	0.00	0.00	562.13	0.00	0.00	0.00	0.00	562.13	0.00	0.00	562.13	0.00	-562.13	0.00			
CHPC(Birpara Receipt)	249.76	0.00	0.00	249.76	0.00	0.00	0.00	0.00	249.76	0.00	0.00	249.76	0.00	-249.76	0.00			
KHPS	71.78	0.00	0.00	71.78	0.00	0.00	0.00	0.00	71.78	0.00	0.00	71.78	0.00	-71.78	0.00			
THPS	512.06	0.00	0.00	512.06	0.00	0.00	0.00	0.00	512.06	0.00	0.00	512.06	0.00	-512.06	0.00			
DAGACHU HPS	61.61	0.00	0.00	61.61	0.00	0.00	0.00	0.00	61.61	0.00	0.00	61.61	0.00	-61.61	0.00			
CHUZACHEN HPS	66.58	0.00	0.00	66.58	0.00	0.00	0.00	0.00	66.58	0.00	0.00	66.58	0.00	-66.58	0.00			
JORHANG HPS	71.13	0.00	0.00	71.13	0.00	0.00	0.00	0.00	71.13	0.00	0.00	71.13	0.00	-71.13	0.00			
TEESTA-III HPS	574.44	0.00	0.00	574.44	0.00	0.00	0.00	0.00	574.44	0.00	0.00	574.44	0.00	-574.44	0.00			
DIKCHU HPS	68.83	0.00	0.00	68.83	0.00	0.00	0.00	0.00	68.83	0.00	0.00	68.83	0.00	-68.83	0.00			
TASHIDING HPS	75.93	0.00	0.00	75.93	0.00	0.00	0.00	0.00	75.93	0.00	0.00	75.93	0.00	-75.93	0.00			
TALCHER SOLAR	0.00	0.00	0.93	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.00	-0.93				
Total Drawal by HVDC Sahsaram,Alipurduar,BRBCL,Indbharat and OPGC														6.47	6.47			
Total	3605.11	11405.88	30.01	15041.00	9.00	915.58	0.00	924.58	3596.11	10490.30	30.01	14116.42	591.36	-1491.88	13215.90	440.5	22286	23617

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13215.90

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	440.53	448.47	7.94	1.77	49.96
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	22286	22815	529	2.32	49.96
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		30-Sep-18		During September-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	1661.42	1551.00					322.70	305.00			
	FARAKKA STPS III	496.47	452.86					84.37	77.58			
	KAHALGAON STPS I	1273.10	1108.88					221.20	196.88			
	KAHALGAON STPS II	259.28	278.16					37.98	42.55			
	TALCHER STPS I	1465.79	1458.61					226.94	226.30			
	MTPS-II	828.86	785.38					182.51	172.93			
	BRBCL	84.36	79.51					14.30	14.72			
	Rly BRBCL	77.51	66.52					19.50	15.52			
	BARH STPS II	3737.97	3488.37					531.61	517.99			
	RANGIT HEP	73.96	190.72					14.97	14.97			
	CHUKHA HEP	229.70	362.73					57.92	80.65			
	KIRUCHHU HEP	0.00	0.00					0.00	0.00			
	TALA HPS	704.87	587.37					164.46	139.69			
	TEESTA HEP	384.43	384.43					70.73	70.73			
	TOTAL	11277.74	10794.53	5074.03	15775.11	15739.75		1949.21	1875.51	695.83	2749.85	2767.68
JUVNL	FARAKKA STPS I	453.70	411.46					88.12	85.77			
	FARAKKA STPS III	315.31	234.23					53.92	46.97			
	KAHALGAON STPS I	97.35	106.76					16.91	18.43			
	KAHALGAON STPS II	65.01	92.67					9.52	11.35			
	TALCHER STPS I	272.52	268.78					42.21	42.23			
	MTPS-II	37.95	39.56					8.36	8.71			
	BARH STPS II	348.06	306.66					49.50	48.24			
	RANGIT HEP	28.18	28.18					5.70	5.70			
	CHUKHA HEP	83.26	131.47					21.00	29.23			
	KIRUCHHU HEP	0.00	0.00					0.00	0.00			
	TALA HPS	316.78	253.98					73.91	62.78			
	TEESTA HEP	223.14	223.14					41.06	41.06			
	TOTAL	2241.26	2096.90	749.77	3189.31	3289.96		410.21	400.46	53.89	511.27	537.34
DVC	FARAKKA STPS I	16.79	0.00					0.00	0.00			
	FARAKKA STPS III	102.38	121.07					20.24	23.28			
	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	11.62	16.07					1.71	7.17			
	MTPS-II	57.40	28.31					6.33	6.47			
	BRBCL	171.23	182.46					29.25	29.21			
	RANGIT HEP	29.20	21.13					4.28	4.28			
	CHUKHA HEP	77.44	126.96					20.27	28.23			
	KIRUCHHU HEP	47.75	30.50					7.19	7.29			
	TALA HPS	162.27	127.61					35.73	30.35			
	TEESTA HEP	253.94	156.23					28.75	28.75			
	TOTAL	804.47	810.34	-7449.29	-6699.71	-6315.70		153.74	165.02	-889.61	-717.26	-560.76
GRIDCO	FARAKKA STPS I	750.52	737.38					145.77	124.09			
	FARAKKA STPS III	321.33	299.91					54.56	40.91			
	KAHALGAON STPS I	479.80	445.19					83.36	54.63			
	KAHALGAON STPS II	136.44	202.00					19.99	18.90			
	TALCHER STPS (Stg-I)	1153.84	1146.77					177.98	177.98			
	TALCHER STPS (Stg-II)	20.76	0.47					0.00	0.00			
	MTPS-II	176.19	95.54					20.76	0.47			
	BARH STPS II	619.29	556.83					102.68	86.57			
	RANGIT HEP	29.69	41.34					0.00	0.00			
	CHUKHA HEP	127.36	144.60					29.69	41.34			
	KIRUCHHU HEP	27.41	23.28					0.00	0.00			
	TALA HPS	158.57	151.52					27.41	23.28			
	TEESTA HEP	#REF!	#REF!					68.50	68.50			
	TOTAL	4305.02	4148.65	2563.56	6815.27	7375.77		730.71	636.69	270.25	927.89	1004.87
WBSEDCL	FARAKKA STPS I	1664.64	1592.25					323.32	314.82			
	FARAKKA STPS III	603.29	550.07					102.44	96.24			
	KAHALGAON STPS I	27.95	34.10					4.86	7.70			
	KAHALGAON STPS II	47.86	65.28					7.01	10.91			
	TALCHER STPS I	356.08	344.52					55.13	54.27			
	MTPS-II	106.51	88.27					23.46	20.34			
	RANGIT HEP	59.89	57.75					12.12	12.12			
	CHUKHA HEP	246.91	389.90					62.26	86.69			
	KIRUCHHU HEP	17.82	30.49					7.19	7.28			
	TALA HPS	1057.31	559.68					246.69	209.53			
	TEESTA HEP	433.62	433.62					79.78	79.78			
	TOTAL	4621.88	4145.93	4580.29	9034.36	9523.39		924.27	899.69	928.07	1894.73	2004.38
SIKKIM	FARAKKA STPS I	86.25	76.87					16.75	14.66			
	FARAKKA STPS III	8.19	7.93					0.00	0.00			
	KAHALGAON STPS I	41.47	40.63					8.19	7.93			
	KAHALGAON STPS II	27.88	27.79					2.52	2.49			
	TALCHER STPS I	73.43	73.43					13.21	13.21			
	MTPS-II	13.99	13.34					1.35	1.35			
	BARH STPS II	61.27	58.31					9.21	8.60			
	RANGIT HEP	26.81	28.52					5.70	5.70			
	CHUKHA HEP	12.87	21.13					4.34	6.04			
	KIRUCHHU HEP	43.88	43.88					0.00	0.00			
	TEESTA HEP	#REF!	#REF!					43.88	43.88			
	TOTAL	590.66	586.43	-197.71	244.48	227.01		105.15	103.85	-34.64	33.84	35.62
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	-1381.25	-1247.46					-202.34	-211.28			
	TALCHER STPS I	0.00	0.00					0.00	0.00			
	BARH STPS II	0.00	0.00					0.00	0.00			
	BRBCL	-354.76	-295.08					-19.50	-26.95			
	TOTAL	-1736.01	-1542.54	2430.57	2359.40	8690.12		-221.84	-238.23	485.10	703.84	1991.88
SR	FARAKKA STPS I	-108.03	-89.52					-20.98	-26.90			
	FARAKKA STPS III	-13.75	-14.52					-2.34	-3.27			
	KAHALGAON STPS I	-42.03	-49.73					-7.30	-14.19			
	KAHALGAON STPS II	-39.74	-43.50					-5.82	-11.73			
	TALCHER STPS STG-I	-55.55	-55.29					-8.60	-8.89			
	MTPS-II	-3.08	-6.41					-0.68	-4.37			
	BARH STPS II	-33.18	-33.69					-4.72	-6.80			
	TOTAL	-295.35	-287.53	-1952.68	-2642.51	-5290.64		-50.44	-76.14	-236.20	-755.70	-1168.79
NR	FARAKKA STPS I	-375.17	-291.83					-72.87	-52.57			
	KAHALGAON STPS I	-943.47	-717.54					-163.92	-121.71			
	KAHALGAON STPS II	-2898.69	-2248.17					-427.79	-327.22			
	TALCHER STPS I	0.00	0.00					0.00	0.00			
	BRBCL	-75.37	-59.94					-13.65	-3.74			
	TALA HPS	-414.64	-345.51					-96.74	-82.17			
	TOTAL	-4707.33	-3663.00	-10359.36	-7861.19	-6953.26		-774.98	-587.40	-1698.81	-1125.35	-1150.68
WR+SR+NR (GRAND TOTAL)		-6738.69	-5493.07	-9881.47	-8144.30	-3553.77		-1047.26	-901.77	-1449.91	-1177.21	-327.59
NER	FARAKKA STPS I	-175.17	-128.71					-34.02	-24.30			
	FARAKKA STPS III	-1.72	-1.88					-0.29	-0.30			
	KAHALGAON STPS I	-89.86	-82.09					-15.61	-14.18			
	KAHALGAON STPS II	-269.97	-212.95					-39.55	-31.42			
	TALCHER STPS I	-104.87	-99.99					-16.24	-15.43			
TOTAL		-641.60	-525.63	350.64	-45.72	-1959.61		-105.71	-85.62	74.68	-10.80	-481.10

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	12.25	9.75	209.95	179.60	
		Thermal Total	440.00	430.00	12.25	9.75	254.81	219.07	
	RES		327.40	327.40	15.68	15.68	122.89	122.89	
		Total BIHAR	767.40	757.40	27.93	25.43	377.70	341.96	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	106.08	93.73	718.76	618.20	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	50.02	50.02	84.12	84.12	
	RES		29.72	29.72	0.00	0.00	0.00	0.00	
	Total		159.72	159.72	50.02	50.02	84.12	84.12	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	90.06	79.26	291.63	256.15	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	353.26	322.11	1938.42	1761.43	
		Durgapur(4)	210.00	210.00	22.87	18.28	451.32	391.61	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	474.33	425.31	3197.60	2859.01	
		Mezia(U # 7,8)	1000.00	1000.00	307.26	289.04	2869.90	2720.28	
		Bokaro-A(1,2)	500.00	500.00	305.26	288.43	1815.43	1713.72	
		Durgapur STPS (U#1,2)	1000.00	1000.00	299.34	277.88	3119.10	2960.65	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	202.58	187.86	1456.45	1354.05	
		Koderma STPS (U#1,2)	1000.00	1000.00	389.68	369.60	3439.01	3274.69	
	Total Thermal	7100.00	7090.00	2444.64	2257.76	18578.86	17290.91		
	6.273	Hydro	Maithon (U#1,2,3)	63.20	63.20	17.92	17.88	69.06	68.80
			Panchet (U#1,2)	80.00	80.00	25.53	25.41	67.70	67.13
			Tilaya (U#1,2)	4.00	4.00	0.00	-0.01	0.24	0.20
			Hydro Total	147.20	147.20	43.45	43.27	137.00	136.11
Total DVC		7247.20	7237.20	2488.09	2301.04	18715.86	17427.02		
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	540.00	450.00	93.53	82.81	761.49	675.08	
		Santalidih TPS(U#5&6)	500.00	500.00	184.88	166.78	1802.60	1649.32	
		Kolaghat TPS	1260.00	1260.00	339.34	300.21	2323.65	2055.55	
		Bakreswar TPP	1050.00	1050.00	431.05	388.16	3497.60	3169.35	
		Sagardighi TPP	1600.00	1600.00	478.20	431.85	3159.99	2851.03	
		Thermal Total	4950.00	4860.00	1527.00	1369.81	11545.33	10400.33	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.83	23.83	132.54	132.54	
		Ramam (4x12.73)	51.00	51.00	35.73	35.73	158.04	158.04	
		Teesta C.F. (3x3x7.3)	67.30	67.30	10.11	10.11	65.29	65.29	
		Purulia PSS (4x225)	900.00	900.00	97.33	97.33	564.35	564.35	
		Total Hydro	1053.30	1053.30	166.99	166.99	920.22	920.22	
		RES	277.52	277.52	0.00	0.00	0.00	0.00	
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	145.57	128.99	1216.36	1086.76	
		RES	5.00	5.00	0.50	0.50	3.09	3.09	
	➤	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 (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	Net Energy Generation in MU	Cummulative Gross Energy Generation upto Current Month (2017-18) in MU	Cummulative Net Energy Generation upto Current Month (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	27.53	25.09	182.25	165.42
		Budge-Budge (3x250)	750.00	750.00	540.78	499.55	3257.45	3006.31
		Total CESC	1125.00	1125.00	568.31	524.64	3439.70	3171.73
HEL	Thermal	HEL	600.00	600.00	421.40	389.52	2488.11	2298.28
		Total West Bengal	8670.82	8580.82	2829.27	2579.95	19611.38	17878.98
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	126.19	109.02	922.74	822.26
		Talcher-II	220.00	220.00	111.55	96.37	870.01	773.21
		Total Thermal	470.00	460.00	237.74	205.39	1792.74	1595.47
OPGC	Thermal	IB TPS	420.00	420.00	267.81	240.66	1489.12	1326.96
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	57.82	57.58	248.37	246.99
		Hirakud-II (Chiplima)	72.00	72.00	14.11	14.04	100.56	100.15
		Balimela (6x60+2x75)	510.00	510.00	223.95	223.24	1022.81	1019.75
		Rengali (5x50)	250.00	250.00	180.71	180.58	552.77	552.09
		Upper Kolab (4x80)	320.00	320.00	156.03	155.57	468.76	467.47
		Indravati HPS (4x150)	600.00	600.00	377.78	370.54	1069.94	1048.24
		Mckd.(Odisha drawal)	57.38	57.38	20.04	20.04	120.66	120.66
		Total Hydro	2084.88	2084.88	1030.42	1021.59	3583.88	3555.36
		RES	184.30	184.30	9.90	9.90	67.06	67.06
		Total Odisha	3159.18	3149.18	1545.87	1477.54	6932.79	6544.85
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00	3.00	18.00	18.00
NTPC		MTPS Stg-II	390.00	390.00	234.052	210.23	1053.72	935.94
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	1026.54	957.04	5311.74	4939.94
		FSTPP (U# 6)	500.00	500.00	306.29	285.20	1810.42	1687.61
		KhSTPP (4x210+3x500)	2340.00	2340.00	1261.25	1166.18	7947.89	7361.47
		TSTPP (2x500)	1000.00	1000.00	602.85	552.73	3857.02	3545.01
		BARH STPS II (2X660)	1320.00	1320.00	718.00	677.73	4887.40	4628.77
		Total NTPC	7150.00	7150.00	4148.97	3849.11	24868.18	23098.74
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	43.80	43.80	218.62	218.62
		Teesta (3x170)	510.00	510.00	336.06	336.06	1851.66	1851.66
		TLDP -(4x33+4x40)	292.00	292.00	182.27	182.27	924.65	924.65
		Total NHPC	862.00	862.00	562.13	562.13	2994.93	2994.93
IPP		MPL (U#1&2)	1050.00	1050.00	471.99	442.24	3538.85	3335.77
IPP		APNRL (U#1,2)	540.00	540.00	210.57	192.57	1579.77	1447.78
		GMR (2x350)	700.00	700.00	378.49	356.73	2274.89	2144.09
		JITPL (2X600)	1200.00	1200.00	310.26	288.23	2223.84	2067.02
		BRBCL # I,2	500.00	500.00	154.80	141.20	844.21	769.63
		CHUZACHEN** (2x55)	110.00	110.00	66.58	66.58	332.74	331.51
		JORETHANG (2x48)	96.00	96.00	71.13	71.13	300.77	300.77
		TEESTA URJA St III (6x200)	1200.00	1200.00	574.44	574.44	2847.70	2847.70
		Tashilding (2x48.5)	97.00	97.00	75.93	75.93	306.65	306.65
		DICKCHU (3X32)	96.00	96.00	68.83	68.83	363.34	363.34
		TALCHER SOLAR	10.00	10.00	0.93	0.93	6.45	6.45
		Total Thermal (E.R)	27325.00	27205.00	11405.89	10490.32	76853.53	70870.75
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2709.90	2700.90	11874.35	11843.71
		Total RES	886.05	886.05	30.01	30.01	214.49	214.49
		TOTAL (E.R)	34087.43	33967.43	14145.80	13221.22	88942.37	82928.94
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	249.76	249.76	1125.29	1125.29
	Hydro	Kurichu (4x15)	60.00	60.00	71.78	71.78	287.15	287.15
	Hydro	TALA (6x170)	1020.00	1020.00	512.06	512.06	2158.66	2158.66
	Hydro	DAGACHU (2x63)	126.00	126.00	61.61	61.61	249.95	249.95
		Grand Total	35653.43	35443.43	15041.00	14116.43	92763.41	86749.99

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

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2018-19) in MU	Cummulative PLF upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	4.86
		Muzaffarpur Stg-I	220.00	220.00	12.25	7.74	209.95	21.73
		Thermal Total	440.00	430.00	12.25	3.96	254.81	13.49
	RES				15.68		122.89	
		Total BIHAR	767.40	757.40	27.93		377.70	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	106.08	35.08	718.76	38.96
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	50.02		84.12	
	RES		29.72	29.72	0.00		0.00	
	Total		159.72	159.72	50.02		84.12	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	90.06	59.56	291.63	31.62
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	353.26	98.13	1938.42	88.27
		Durgapur(4)	210.00	210.00	22.87	15.13	451.32	48.93
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	474.33	49.16	3197.60	54.33
		Mezia(U # 7,8)	1000.00	1000.00	307.26	42.68	2869.90	65.34
		Bokaro-A(1,2)	500.00	500.00	305.26	84.79	1815.43	82.67
		Durgapur STPS (U#1,2)	1000.00	1000.00	299.34	41.57	3119.10	71.02
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	202.58	23.45	1456.45	27.63
		Koderma STPS (U#1,2)	1000.00	1000.00	389.68	54.12	3439.01	78.30
	Total Thermal	7100.00	7090.00	2444.64	47.89	18578.86	59.66	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	17.92		69.06	
		Panchet (U#1,2)	80.00	80.00	25.53		67.70	
		Tilaya (U#1,2)	4.00	4.00	0.00		0.24	
		Hydro Total	147.20	147.20	43.45		137.00	
		Total DVC	7247.20	7237.20	2488.09		18715.86	
WEST BENGAL								
WBDCL	Thermal	Bandel TPS	540.00	450.00	93.53	28.87	761.49	38.53
		Santalidih TPS(U#5&6)	500.00	500.00	184.88	51.36	1802.60	82.09
		Kolaghat TPS	1260.00	1260.00	339.34	37.41	2323.65	41.99
		Bakreswar TPP	1050.00	1050.00	431.05	57.02	3497.60	75.84
		Sagardighi TPP	1600.00	1600.00	478.20	41.51	3159.99	44.97
		Thermal Total	4950.00	4860.00	1527.00	43.64	11545.33	54.09
WBSDEL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.83		132.54	
		Ramam (4x12.73)	51.00	51.00	35.73		158.04	
		Teesta C.F. (3x3x7.3)	67.30	67.30	10.11		65.29	
		Purulia PSS (4x225)	900.00	900.00	97.33		564.35	
		Total Hydro	1053.30	1053.30	166.99		920.22	
	RES	277.52	277.52	0.00		0.00		
	TLDP -(4x33+4x40)	292.00	292.00	182.27		924.65		
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	145.57	30.63	1216.36	41.96
	RES		5.00	5.00	0.50		3.09	

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	27.53	28.32	182.25	30.74
		Budge-Budge (3x250)	750.00	750.00	540.78	100.15	3257.45	98.89
		Total CESC	1125.00	1125.00	568.31	70.16	3439.70	69.62
HEL	Thermal		600.00	600.00	421.40	97.55	2488.11	94.42
		Total West Bengal	8670.82	8580.82	2829.27		19611.38	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	126.19	73.03	922.74	87.54
		Talcher-II	220.00	220.00	111.55	70.42	870.01	90.04
		Total Thermal	470.00	460.00	237.74	71.78	1792.74	88.74
OPGC	Thermal	IB TPS	420.00	420.00	267.81	88.56	1489.12	80.73
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	57.82		248.37	
		Hirakud-II (Chiplima)	72.00	72.00	14.11		100.56	
		Balimela (6x60+2x75)	510.00	510.00	223.95		1022.81	
		Rengali (5x50)	250.00	250.00	180.71		552.77	
		Upper Kolab (4x80)	320.00	320.00	156.03		468.76	
		Indravati HPS (4x150)	600.00	600.00	377.78		1069.94	
		Mckd.(Odisha drawal)	57.38	57.38	20.04		120.66	
		Total Hydro	2084.88	2084.88	1030.42		3583.88	
		RES	184.30	184.30	9.90		67.06	
(**) SIKKIM	Hydro		3159.18	3149.18	1545.87		6932.79	
		RES	52.11	52.11	3.00		18.00	
NTPC		MTPS Stg-II	390	390	234.052	83.35	1053.7197	61.52
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	1026.54	89.11	5311.74	75.59
		FSTPP (U# 6)	500.00	500.00	306.29	85.08	1810.42	82.44
		KhSTPP (4x210+3x500)	2340.00	2340.00	1261.25	74.86	7947.89	77.33
		TSTPP (2x500)	1000.00	1000.00	602.85	83.73	3857.02	87.82
		BARH STPS II (2X660)	1320.00	1320.00	718.00	75.55	4887.40	84.30
		Total NTPC	7150.00	7150.00	4148.97	80.59	24868.18	79.19
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	43.80		218.62	
		Teesta (3x170)	510.00	510.00	336.06		1851.66	
		TLDP -(4x33+4x40)	292.00	292.00	182.27		924.65	
		Total NHPC	862.00	862.00	562.13		2994.93	
IPP IPP	Thermal	MPL (U#1&2)	1050.00	1050.00	471.99	62.43	3538.85	76.74
		APNRL (U#1,2)	540.00	540.00	210.57	54.16	1579.77	66.61
		GMR (2x350)	700.00	700.00	378.49	75.10	2274.89	73.99
		JITPL (2X600)	1200.00	1200.00	310.26	35.91	2223.84	42.19
		BRBCL # I,2	500.00	500.00	154.80	43.00	844.21	38.44
		CHUZACHEN** (2x55)	110.00	110.00	66.58		332.74	
		JORETHANG (2x48)	96.00	96.00	71.13		300.77	
		TEESTA URJA St III (6x200)	1200.00	1200.00	574.44		2847.70	
		Tashilding (2x48.5)	97.00	97.00	75.93		306.65	
		DICKCHU (3X32)	96.00	96.00	68.83		363.34	
		TALCHER SOLAR	10.00	10.00	0.93		6.45	
		Total Thermal (E.R)	27325.00	27205.00	11405.89	58.23	76853.53	64.32
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2709.90		11874.35	
		Total RES	886.05	886.05	30.01		214.49	
		TOTAL (E.R)	34087.43	33967.43	14145.80		88942.37	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	249.76		1125.29	
		Kurichu (4x15)	60.00	60.00	71.78		287.15	
		TALA (6x170)	1020.00	1020.00	512.06		2158.66	
		DAGACHU (2x63)	126.00	126.00	61.61		249.95	
		Grand Total	35653.43	35443.43	15041.00		92763.41	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF (29-9-2018)

Date **29-Sep-18**
Time **22.00** Hrs.
Frequency **49.97** 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	120	132	0	252
DVC	7247	7237	11	2788	0	2800
ODISHA	3159	3149	1468	673	57	2197
WBSEDCL	6281	6191	652	1996	0	2647
TLDP	292	292	269	0	0	269
HEL HALDIA	600	600	0	548	0	548
CESC	1125	1125	0	725	0	725
DPL	665	665	0	301	0	301
SIKKIM	52	52	0	0	0	0
NTPC	7150	7150	0	5325	0	5325
NHPC	570	570	584	0	0	584
CHUKHA	360	270	235	0	0	235
KURICHU	60	60	86	0	0	86
TALA	1020	1020	481	0	0	481
MPL	1050	1050	0	843	0	843
SEL	0	0	0	0	0	0
APNRL	540	540	0	461	0	461
Kamalganga (GMR)	700	700	0	633	0	633
JITPL	1200	1200	0	481	0	481
BRBCL	500	500	0	230	0	0
Chuzachen	110	110	86	0	0	86
Jorethang	96	96	102	0	0	102
TEESTA URJA St III	1200	1200	786	0	0	786
Tashilding	97	97	101	0	0	101
DICKCHU	96	96	99	0	0	99
<u>Daghachu</u>	126	126	58	0	0	58
<u>Solar</u>	10	10	0	0	0	0
<u>Diseal</u>	0	0	0	0	0	0
<u>Total</u>	35653	35443	5137	15135	57	20329
Import From Captive:						595
Export To:						
NER						967
SR						1800
WR						-4145
NR						-932.33
Bangladesh						777.89
Nepal						170.59
Total						-1362
➤ Net Peak Demand Met (MW) :						22286

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of (29-9-2018)

(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	3774	15351	19125	559	776	-807	21268	41	365	21673
2	3755	15326	19081	479	775	-1114	21450	62	349	21861
3	3736	15251	18988	467	775	-1094	21324	56	349	21729
4	3718	15078	18796	474	778	-902	20950	11	579	21541
5	3715	14976	18692	481	782	-691	20647	18	581	21245
6	3722	15091	18812	530	755	647	19451	44	623	20118
7	3722	15025	18747	559	735	2217	17825	-6	706	18525
8	3749	14899	18648	545	747	2378	17561	12	741	18314
9	3706	14857	18563	547	773	2174	17709	15	809	18534
10	3691	14735	18427	506	791	1574	18151	14	721	18886
11	3762	14626	18387	554	788	1519	18210	33	803	19046
12	3734	14889	18623	559	792	1381	18592	26	711	19330
13	3518	14981	18499	526	791	1288	18528	13	696	19237
14	3543	14736	18279	541	801	980	18641	0	634	19275
15	3631	14798	18429	577	795	929	18871	68	584	19523
16	3683	14906	18588	576	795	1058	18902	65	546	19513
17	3731	14811	18542	562	785	1531	18358	21	455	18834
18	4121	14918	19039	583	755	1177	19201	66	459	19725
19	4501	15290	19791	606	754	33	21118	161	766	22045
20	4220	15329	19549	576	774	-511	21409	67	937	22413
21	4409	15152	19561	599	791	-1167	22118	31	716	22865
22	4392	15135	19527	595	802	-1362	22286	21	507	22815
23	4346	14545	18891	582	813	-781	21068	52	527	21647
24	3702	14507	18209	612	786	-1064	20672	45	490	21207

Hourly Load Generation Data of ER On Regional Lean Day During The Month of (21-9-2018)

(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	4185	13424	17609	640	1134	2273	17110	22	90	17223
2	4039	13271	17310	656	1124	2763	16326	16	99	16441
3	3761	12774	16535	660	1150	2255	16090	21	106	16217
4	3718	12649	16367	554	1111	2189	15844	24	106	15973
5	3645	12876	16521	585	1124	2891	15339	5	107	15451
6	3652	13070	16722	648	1103	4319	14154	4	323	14481
7	3537	13015	16552	688	1106	5014	13331	23	207	13561
8	3586	13141	16727	731	1118	5310	13266	15	260	13541
9	3628	12766	16394	723	1125	4945	13298	13	261	13572
10	3659	12860	16519	641	1125	4709	13576	15	258	13849
11	3379	12975	16354	648	1136	4806	13332	1	172	13504
12	3576	12899	16475	609	1124	4644	13564	0	211	13775
13	3571	12263	15834	618	1093	3762	13784	-2	195	13977
14	3602	12530	16132	624	1082	3947	13892	-18	131	14005
15	3472	12710	16182	634	1069	4327	13557	-13	77	13621
16	3519	12550	16069	658	1073	4436	13365	-6	56	13415
17	3547	12195	15743	697	1071	4289	13221	7	90	13318
18	3861	12566	16427	677	1058	3861	14300	19	81	14400
19	4455	13513	17968	708	1041	2536	17181	38	186	17405
20	4065	13830	17895	665	1047	1813	17794	-14	190	17970
21	4264	13745	18009	683	1055	1375	18372	3	63	18439
22	4209	13675	17884	731	1072	1690	17998	-2	124	18120
23	3988	13788	17776	733	1114	1992	17632	2	184	17817
24	3705	13008	16713	750	1115	1391	17186	-5	114	17296

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 42.96 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 15.85 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 149.01 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 18.11 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

Sep-18

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	<49.9	49.9	>50.05	49.9	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	HZ		HZ		HZ		HZ	
01-Sep	49.98	49.99	49.97	49.99	49.96	49.98	3.60	88.80	7.60	88.80	50.15	13:02	49.82	14:43	50.07	0:00	49.88	0:00
02-Sep	49.99	50.01	50.01	49.99	50.01	50.00	0.70	82.80	16.50	82.80	50.14	6:03	49.85	18:43	50.09	0:00	49.91	0:00
03-Sep	49.97	49.99	49.97	49.95	49.97	49.97	5.90	89.20	4.90	89.20	50.15	10:00	49.76	18:42	50.05	0:00	49.84	0:00
04-Sep	49.99	49.98	49.97	49.97	49.98	49.98	8.90	82.90	8.20	82.90	50.13	7:02	49.72	14:42	50.06	0:00	49.81	0:00
05-Sep	49.96	49.97	49.95	49.92	49.95	49.95	12.60	83.90	3.50	83.90	50.12	12:03	49.68	19:16	50.07	0:00	49.76	0:00
06-Sep	49.98	49.97	49.99	49.94	49.96	49.97	7.50	85.50	7.00	85.50	50.15	15:03	49.79	12:10	50.05	0:00	49.86	0:00
07-Sep	49.98	49.95	49.98	49.92	49.97	49.96	10.80	83.30	5.90	83.30	50.10	13:02	49.64	18:52	50.05	0:00	49.76	0:00
08-Sep	49.97	49.96	49.96	49.95	49.93	49.96	9.00	86.40	4.60	86.40	50.15	6:02	49.70	18:50	50.05	0:00	49.79	0:00
09-Sep	49.92	49.96	49.93	49.93	49.97	49.94	18.80	78.90	2.30	78.90	50.14	18:01	49.70	18:41	50.04	0:00	49.81	0:00
10-Sep	49.96	49.96	49.92	49.91	49.97	49.94	23.92	73.44	2.64	73.44	50.10	13:01	49.71	18:43	50.05	0:00	49.78	0:00
11-Sep	49.97	49.98	49.96	49.91	49.97	49.96	11.50	84.10	4.40	84.10	50.12	16:05	49.64	19:18	50.06	0:00	49.72	0:00
12-Sep	49.93	49.97	49.95	49.92	49.94	49.94	19.60	76.50	3.90	76.50	50.13	18:02	49.74	19:21	50.08	0:00	49.98	0:00
13-Sep	49.93	49.97	49.95	49.96	49.90	49.95	16.10	78.20	5.70	78.20	50.15	16:03	49.73	22:11	50.08	0:00	49.79	0:00
14-Sep	49.94	49.98	49.97	49.90	49.92	49.95	18.50	76.40	5.10	76.40	50.12	16:02	49.68	18:41	50.06	0:00	49.79	0:00
15-Sep	49.92	49.96	49.90	49.86	49.81	49.90	42.20	55.30	2.50	55.30	50.10	7:01	49.66	18:38	50.04	0:00	49.71	0:00
16-Sep	49.87	49.91	49.96	49.96	49.94	49.93	27.40	69.50	3.10	69.50	50.15	16:03	49.78	0:19	50.08	0:00	49.74	0:00
17-Sep	49.97	49.96	49.99	49.99	49.98	49.98	5.60	85.15	9.25	85.15	50.16	16:04	49.73	6:12	50.06	0:00	49.85	0:00
18-Sep	49.99	50.00	49.97	49.98	49.93	49.98	5.17	87.04	7.79	87.04	50.15	6:02	49.72	18:42	50.06	0:00	49.85	0:00
19-Sep	49.96	49.96	49.94	49.91	49.92	49.94	23.30	72.20	4.50	72.20	50.13	16:03	49.67	18:22	50.05	0:00	49.78	0:00
20-Sep	49.95	49.97	49.97	49.98	49.97	49.97	5.50	87.00	7.50	87.00	50.15	6:02	49.82	0:07	50.07	0:00	49.79	0:00
21-Sep	49.97	49.97	50.01	49.98	50.00	49.99	3.60	88.80	7.60	88.80	50.15	13:02	49.67	14:43	50.10	0:00	49.88	0:00
22-Sep	49.99	50.00	49.98	49.95	50.00	49.98	5.30	85.30	9.40	85.30	50.20	13:03	49.80	18:22	50.08	0:00	49.76	0:00
23-Sep	49.94	50.01	50.00	49.97	50.02	49.99	4.30	82.90	12.80	82.90	50.15	6:03	49.80	18:25	50.08	0:00	49.88	0:00
24-Sep	49.97	49.94	49.92	49.91	49.99	49.94	20.60	74.80	4.60	74.80	50.10	23:21	49.57	18:23	50.06	0:00	49.64	0:00
25-Sep	49.97	49.96	49.97	49.96	49.99	49.97	13.30	76.80	9.90	76.80	50.18	13:09	49.78	16:16	50.11	0:00	49.83	0:00
26-Sep	49.98	50.02	49.99	49.95	49.96	49.98	6.60	82.40	11.00	82.40	50.14	7:45	49.78	18:46	50.08	0:00	49.86	0:00
27-Sep	49.97	50.02	49.96	49.92	49.90	49.96	13.70	74.40	11.90	74.40	50.14	8:02	49.76	18:25	50.10	0:00	49.81	0:00
28-Sep	49.94	49.96	49.95	49.90	49.93	49.94	17.80	79.00	3.20	79.00	50.11	13:02	49.63	18:43	50.06	0:00	49.72	0:00
29-Sep	49.95	49.98	49.95	49.91	49.93	49.94	16.70	79.90	3.50	79.90	50.14	6:01	49.62	18:37	50.06	0:00	49.68	0:00
30-Sep	49.92	49.96	49.94	49.94	49.94	49.94	19.00	78.60	2.50	78.60	50.09	6:01	49.76	16:42	50.03	0:00	49.83	0:00
MAX	49.99	50.02	50.01	49.99	50.02	50.00	42.20	89.20	16.50	89.20	50.20		49.85		50.11		49.98	
MIN	49.87	49.91	49.90	49.86	49.81	49.90	0.70	55.30	2.30	55.30	50.09		49.57		50.03		49.64	
AVG	49.96	49.97	49.96	49.94	49.95	49.96	13.25	80.31	6.44	80.31	50.14		49.72		50.07		49.80	

SUMMARY:

Avg. Frequency : 49.96 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.20 Hz On 00/01/00 at 13:03 Hrs.

Minimum Frequency : 49.57 Hz On 00/01/00 at 18:23 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.11 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.64 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	13.25	80.31	6.44

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
	415	375	422	404	424	372	417	384

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	384	422	404	412	392	414	401

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

Sep-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	
			(30-09-18)	(30-09-17)		
Hirakud	192	180	191.76	192.02	190.03	01.09.18
Balimela	462	439	458.78	450.95	460.92	01.09.18
Rengali	123	109	122.60	122.93	121.40	01.09.18
Upperkolab	858	844	856.18	852.60	856.11	01.09.18
Indravati	642	625	639.01	635.97	640.01	01.09.18
Subernrekha	590	580	586.71	588.11	586.86	01.09.18

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Sep-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	42.06
West Bengal	55.16	18.02	0	0	0	0	0	35.17	108.36
ODISHA	0	0	49.37	1.06	10.24	50.47	0	320.08	431.21
DVC	0	0	0	0	0	0	9.72	0	9.72
TOTAL	55.16	18.02	49.37	1.06	10.24	50.47	9.72	355.25	591.35

C.

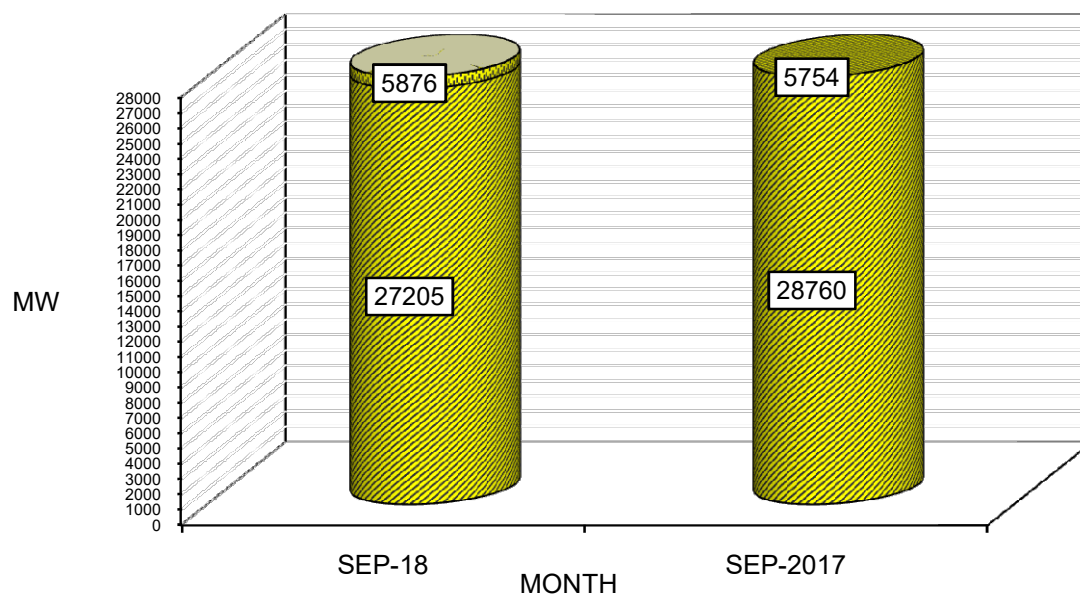
Distribution of Schedule Supply among Key Customers by IPPs during

Sep-18

(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	123.14	122.57	65.84	0.00	0	0	130.76	442.31
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	42.06	0	1.28	0.00	98.87	52.85	195.07
Total	123.14	164.63	65.84	1.28	0.00	98.87	183.61	637.38

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID

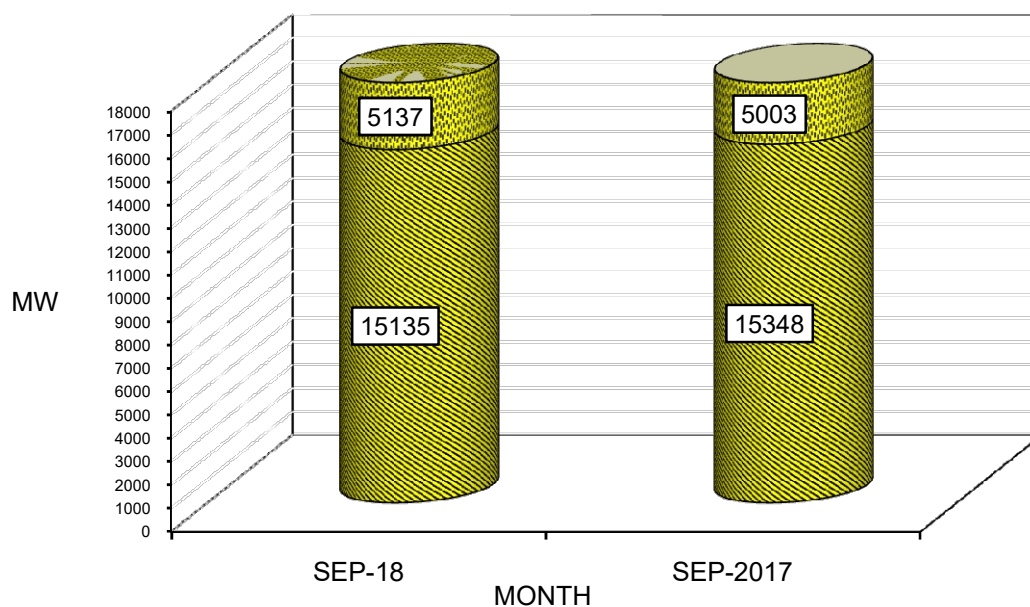


■ HYDRO *

■ THERMAL

*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

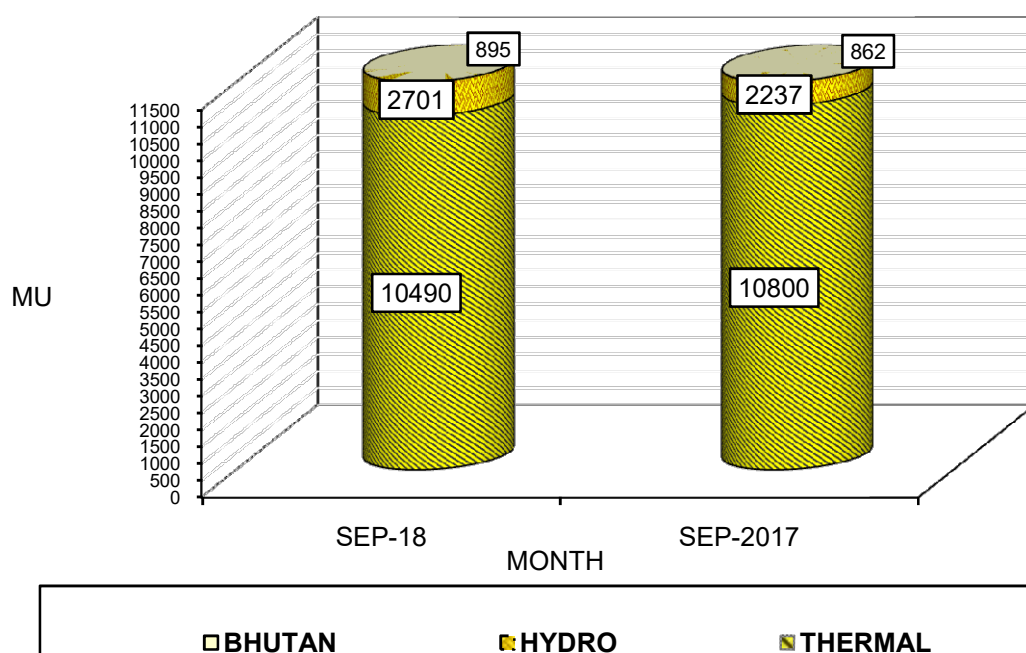


■ HYDRO *

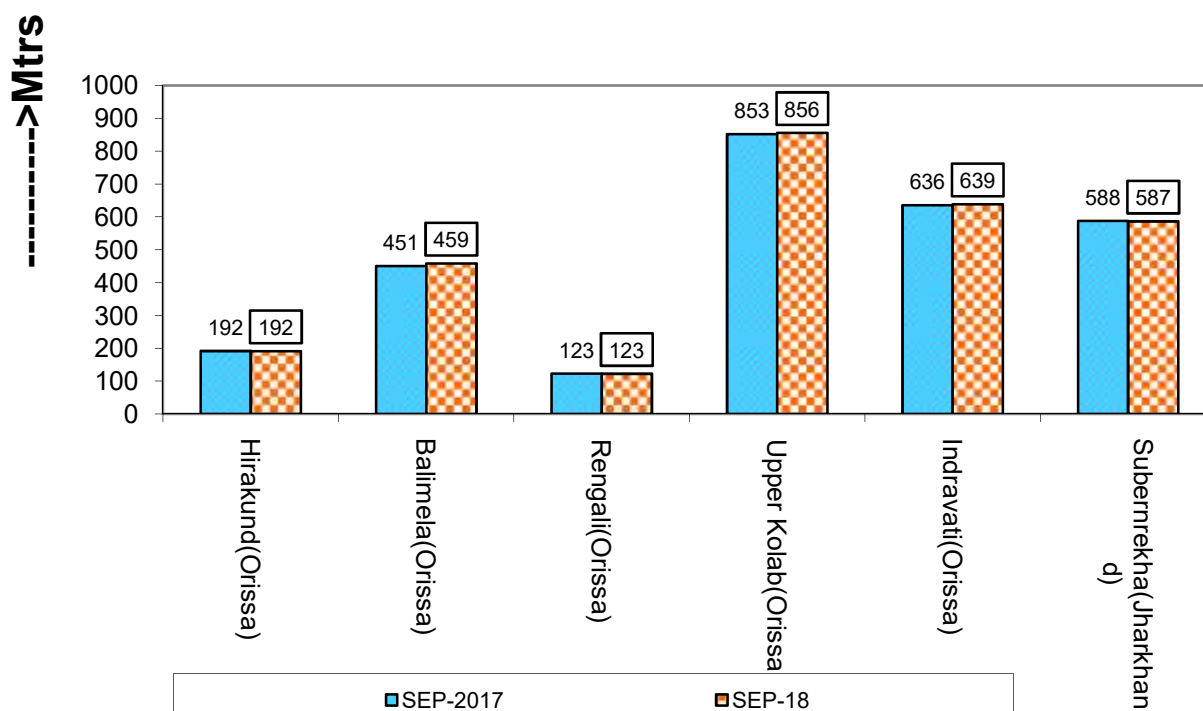
■ GAS+DIESEL

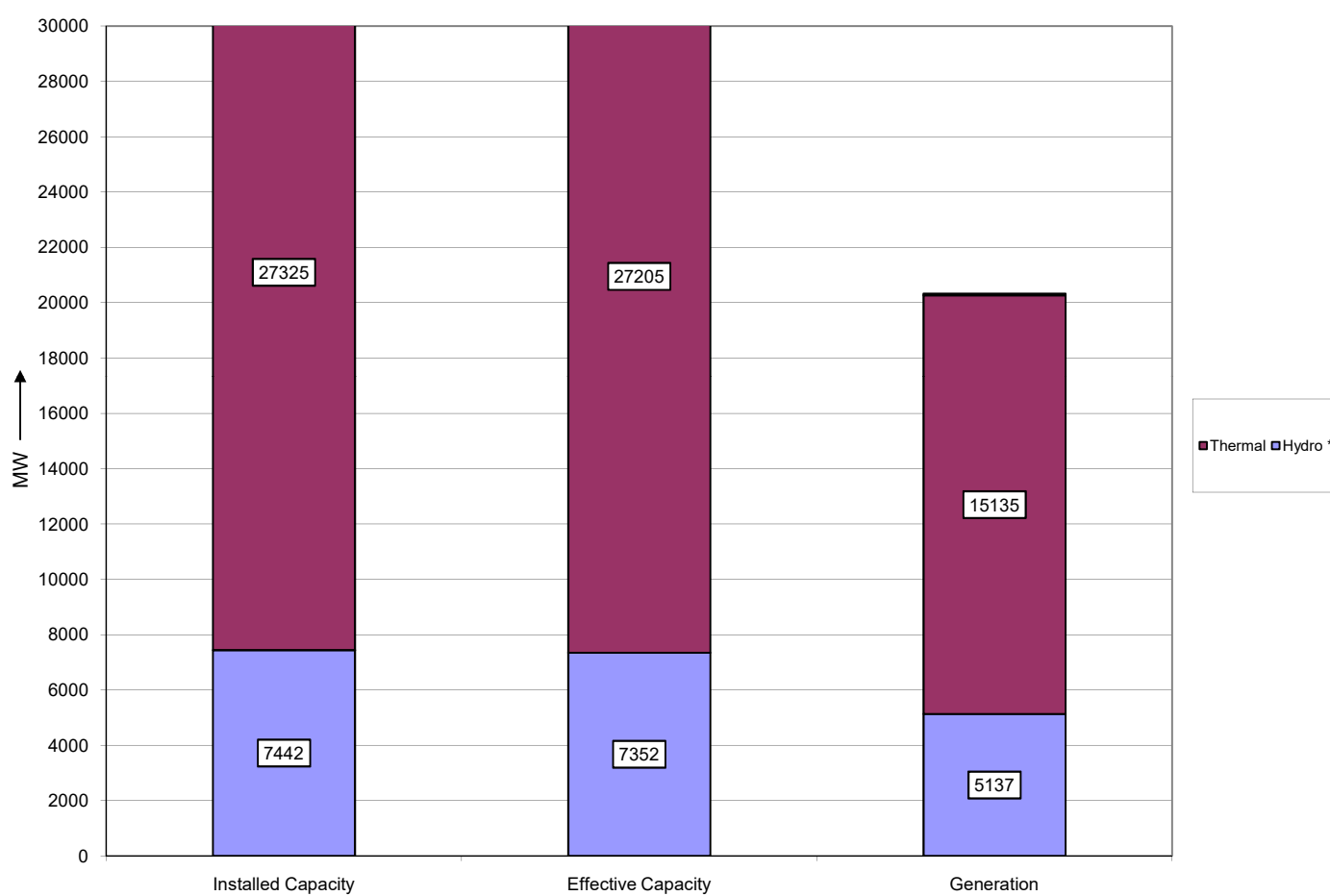
*Includes contribution from HEP of Bhutan

NET ENERGY GENERATION



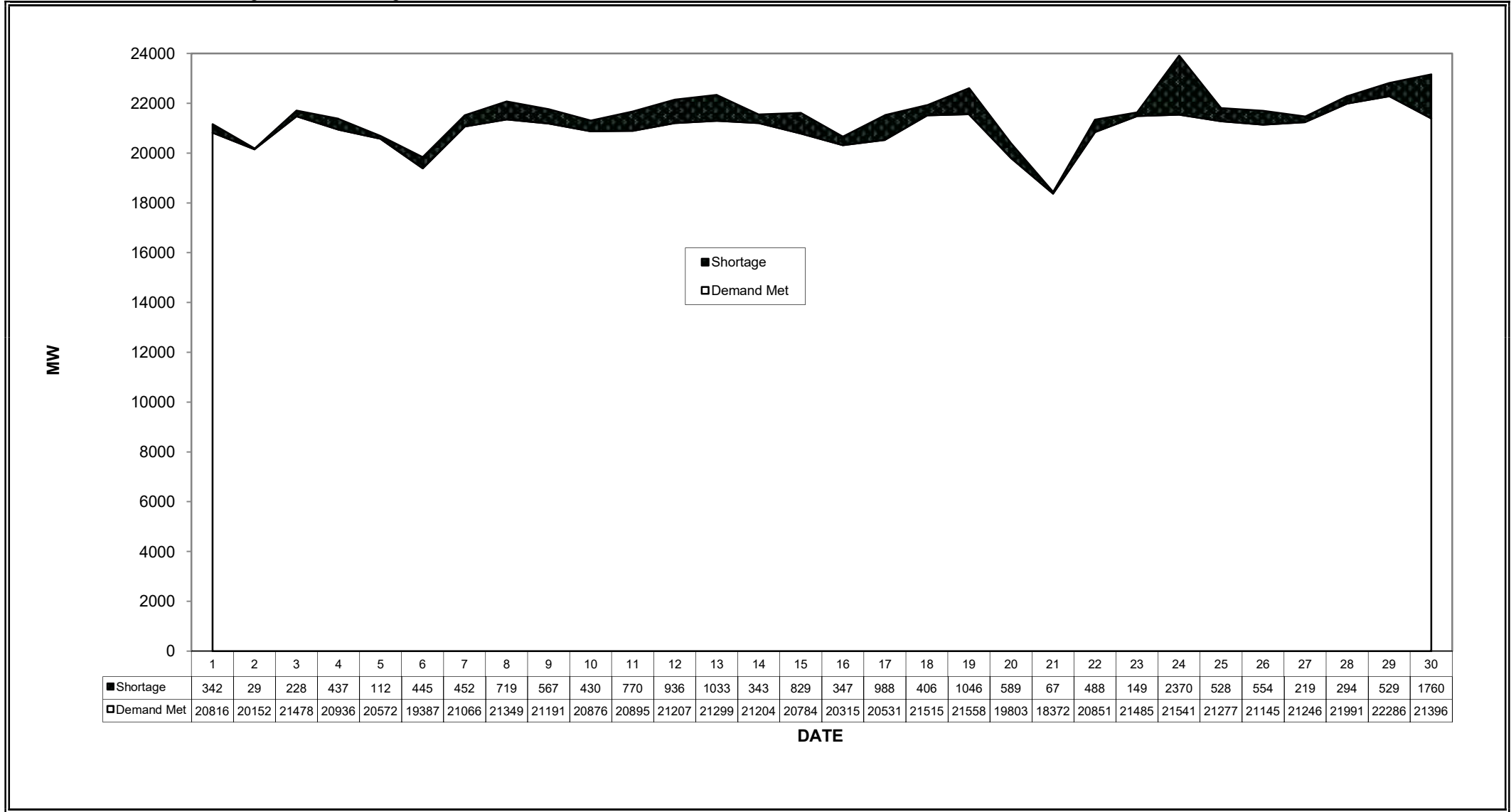
RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)



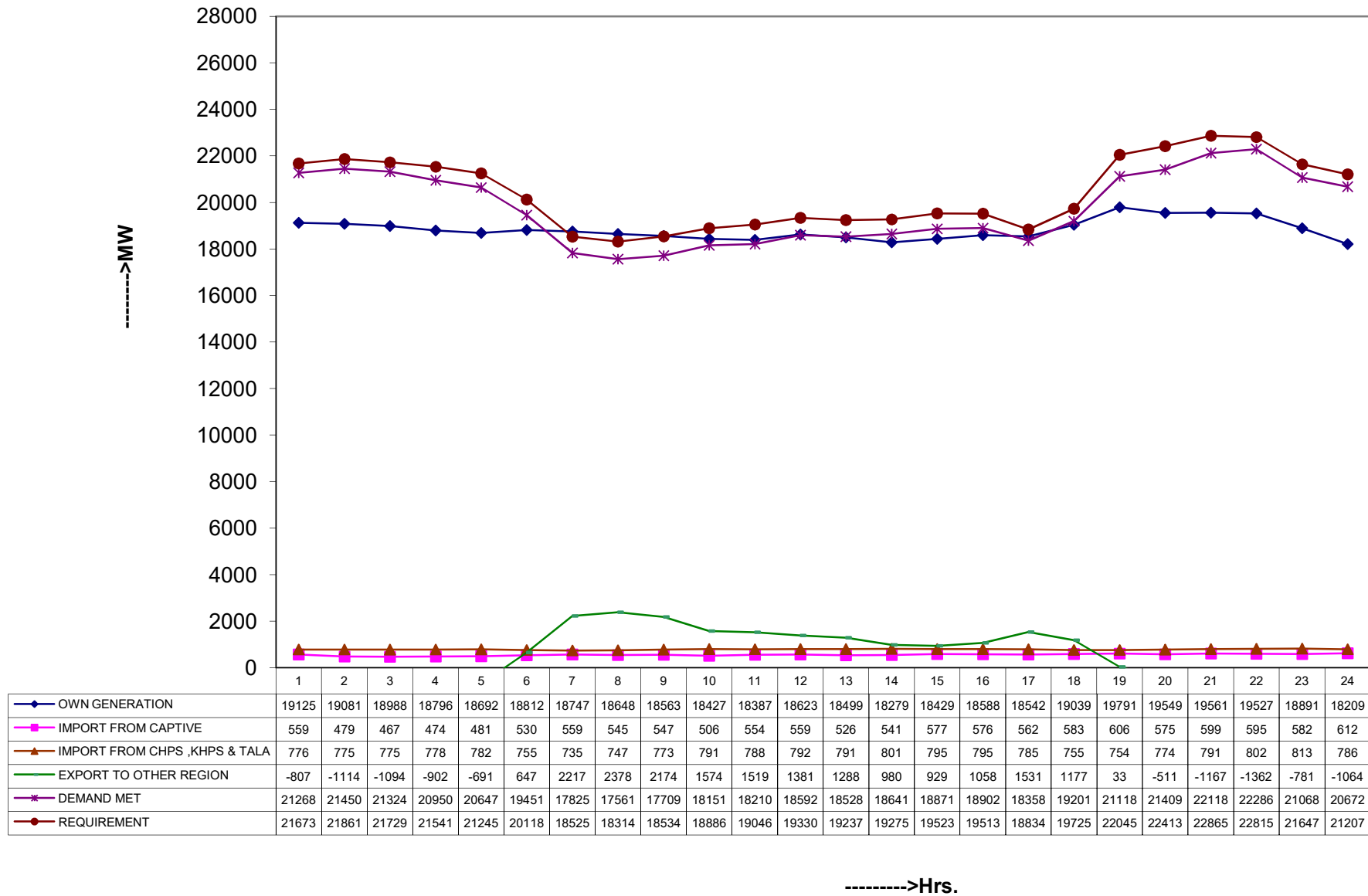
Capacity / Actual Generation Pattern of ER on Peak Day (29-9-2018) at 22.00 hrs.

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

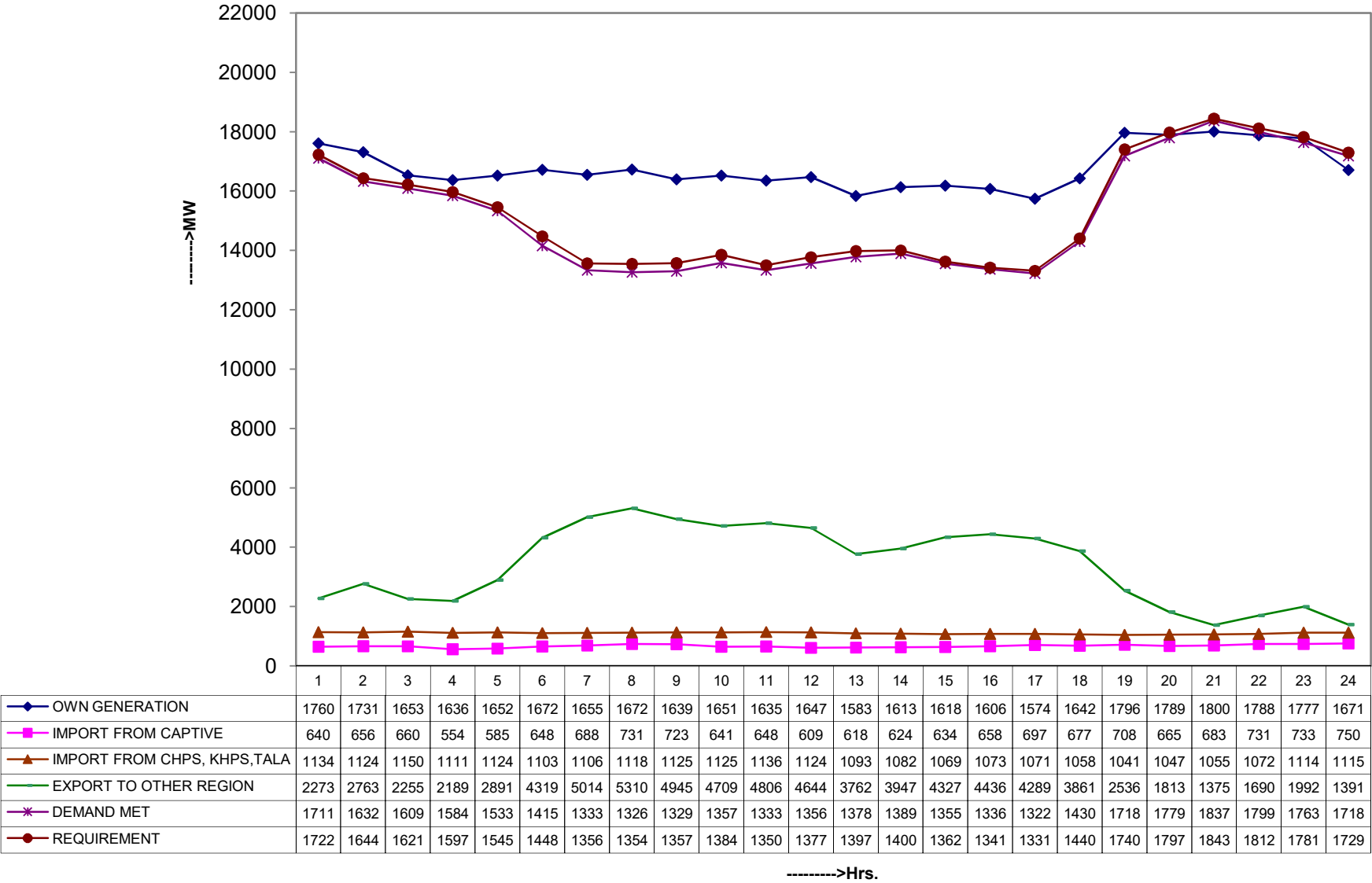
Peak Demand Met / Shortage of Eastern Region For The Month Of



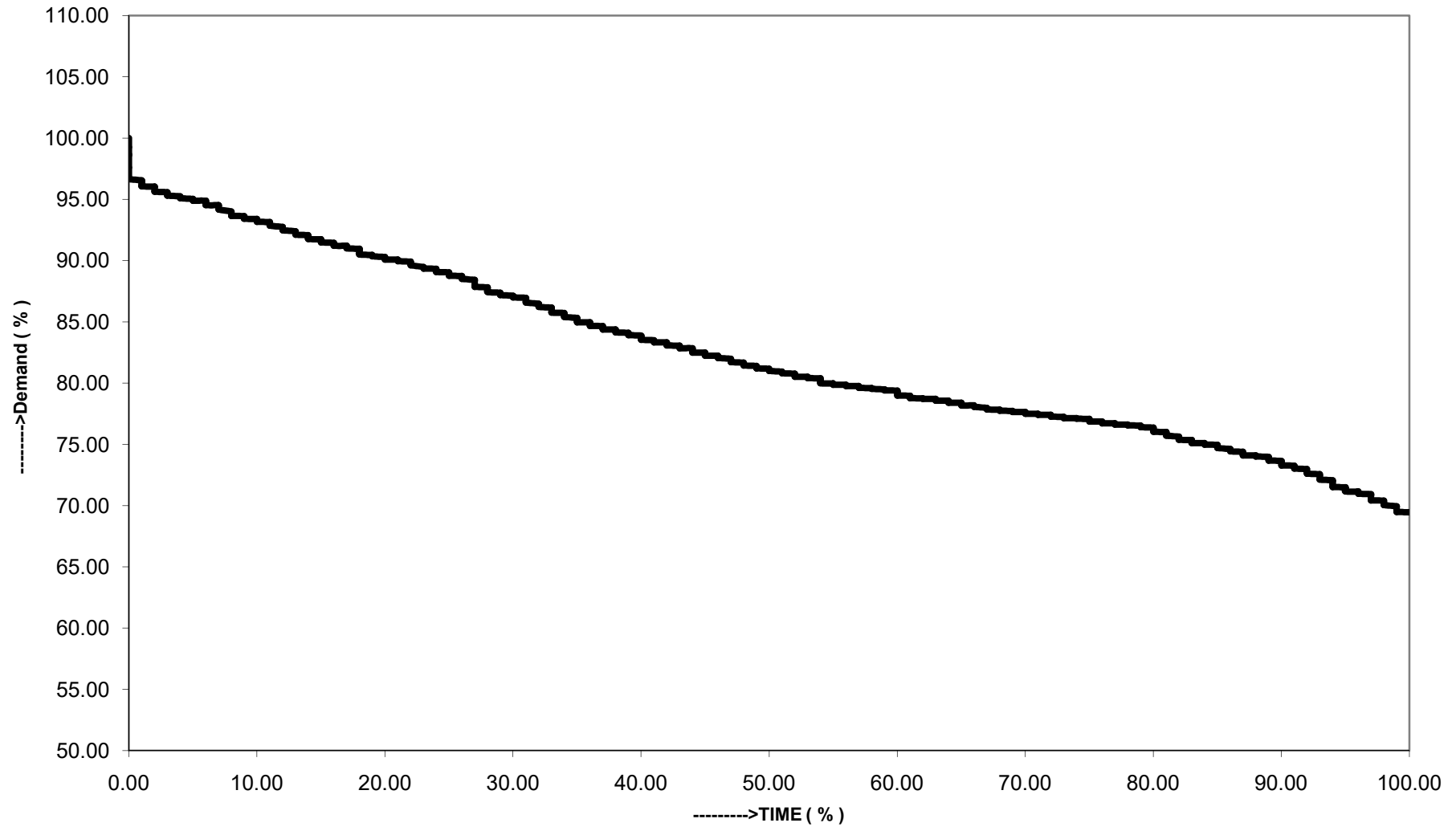
Hourly Load Generation Data OF ER On Regional Peak Day During The Month of (29-9-2018)



Hourly Load Generation Data of ER On Regional Lean Day During The Month of (21-9-2018)

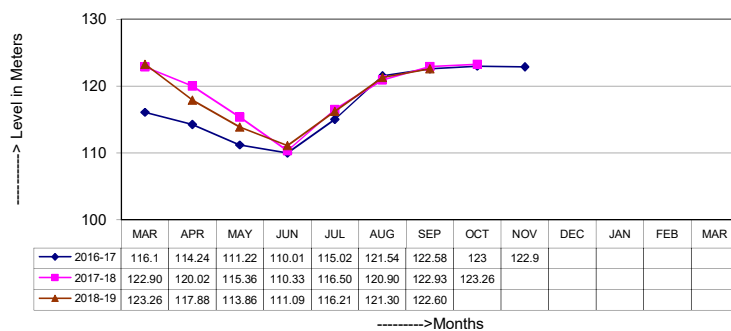


Monthly Load Duration Curve of Eastern Region for SEP-18

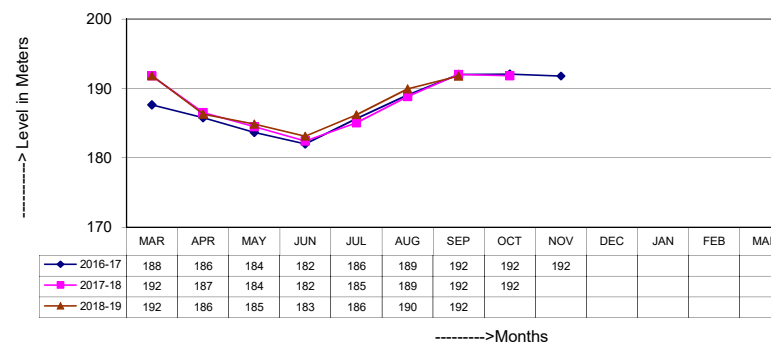
Maximum Demand met : 22286 MW**Minimum Demand met: 13221 MW**

WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

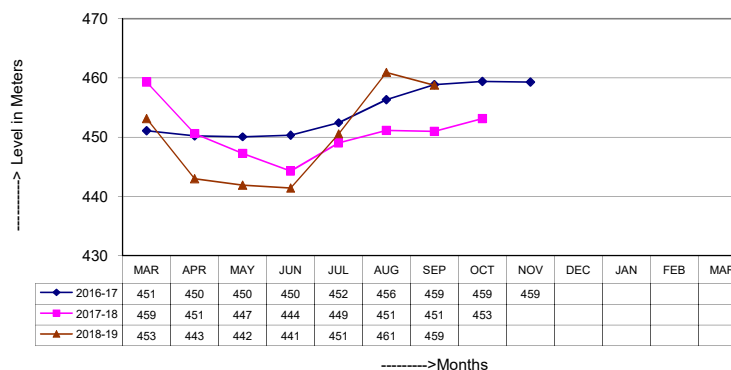
RENGALI RESERVOIR LEVEL



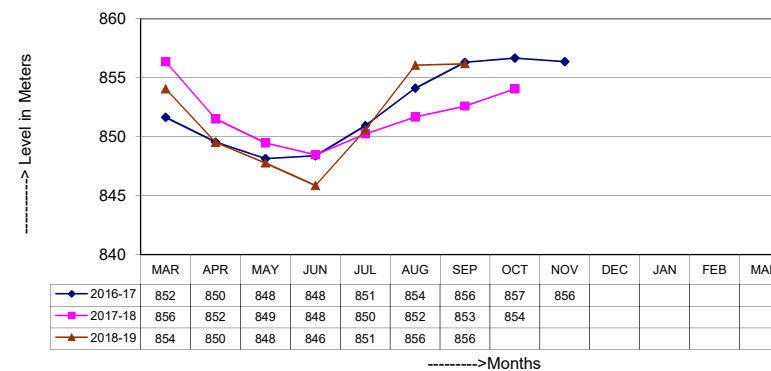
HIRAKUD RESERVOIR LEVEL



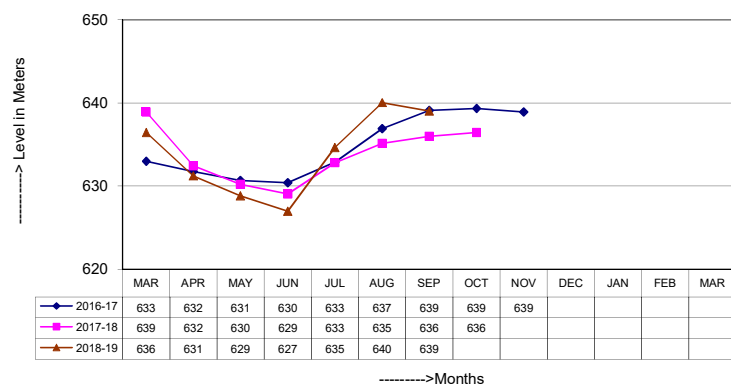
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

