



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति
Eastern Regional Power Committee
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सं /NO: ERPC/MS/Reporting/MPR/2021-22/ 1003

दिनांक/Date: 28.10.2021

सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list

विषय : सितंबर, 2021 माह की ईआरपीसी की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट पर अपलोड - के संबंध में

Subject: Upload of Monthly Progress Report of ERPC for the month of September, 2021 on ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की सितंबर, 2021 माह की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट www.erpc.gov.in पर अपलोड कर दी गई है। यह आपकी जानकारी के लिए है।

Monthly Progress Report of Eastern Regional Power Committee for the month of September, 2021 has been uploaded on ERPC website www.erpc.gov.in. This is for your information please.

संलग्नक : यथोपरी

Encl. – As above.

भवदीय / Yours faithfully


28/10/2021

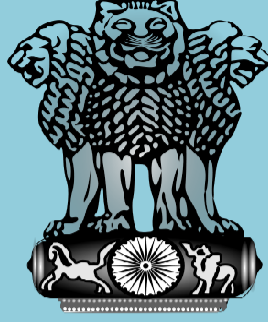
(Swapan Roy)

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Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

सितंबर-2021

September-2021



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for Sep - 2021

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of Sep, 2021 was **25010 MW** which is 6.15% more than the Sep, 2020 (23561 MW). Individual **Peak Demand (MW)** of all the constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of Sep, 2021 was **485.60 MU** excluding export, which is 4.36% more than the corresponding period of last year (465.31 MU).
- **The Average regional PLF of thermal units during the month is 67.45 %**, which is 3.76% more than the corresponding period of the last year (**63.69%**).
WBPDC (Santalidih TPS) registered the highest PLF of 92.35%, followed by CESC (Budge-Budge) 91.76% and Haldia (HEL) 91.13% during the month of Sep, 2021.
- **Maximum Net generation** was **29859 MW** against total **Effective Capacity of 40623.41 MW** (including import from Bhutan). At the time of Regional peak (**25010 MW** on 05.09.2021 at 21.00 hrs.) the generation was **29431 MW** and import from CPP was 1395 MW, Net export was 5816 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 77.01% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.23 Hz and 49.50 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.16 Hz** and **49.61 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded 426 KV at Jeerat 400 KV S/s whereas the minimum voltage recorded 370 KV at Biharshariff 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 10245 MW (including Nepal and Bangladesh) on 15th Sep, 2021 at 08:00 hrs. Total net energy export during the month was 4482.21 MU (Inc.Transmission loss) MU which is corresponds to 24.79 % of ex-bus total generation 18080.13 MU of Eastern Region.**
- **The import from CPPs was 970.61 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	5735	0	2336.08
WR	1896	1461	152.74
SR	3986	483	1169.27
NER	1288	495	321.69
BANGLADESH			527.44
NEPAL (via-CTU)			-24.56
Total			4482.21
NEPAL by Bihar(NBPDCL)			-4.94

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Sep-21	SEP-2020	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	30920	30130	790	2.62
	HYDRO (MW)	5990	\$ 5877	113	2
	DIESEL (MW)	0	0	0	0
	RES (MW)	1518	1489	0	0
	TOTAL (MW)	38427	37496	931	2.48
2)	Peak Demand (MW)	25454	23617	1837	7.78
3)	Peak Demand Met (MW)	25010	23561	1449	6.15
4)	Shortage (MW)	445	56	389	0.00
5)	% Shortage	1.75	0.24	1.51	0.00
6)	Average Energy Requirement Per Day (MU)	489.41	465.52	23.89	5.13
7)	Average Energy Availability Per Day (MU)	485.60	465.31	20.29	4.36
8)	Average Shortage Per Day (MU)	3.80	0.20	3.60	1801.26
9)	% Shortage	0.78	0.04	0.74	1842.42
10)	Net Generation for the Month				
	Thermal (MU)	13973.57	12738.03	1235.54	9.70
	Hydro (MU)	4013.83	* 4127.65	-113.82	-2.76
	RES (MU)	92.78	72.53	0.00	-
	Total (MU)	18080.18	16938.21	1141.97	6.74
11)	Generation at the Time of Max. Regional Demand Met (05-09-21 at 21.00 Hrs.)				
	Thermal (MW)	22540	20053	2487	12.40
	Hydro (MW)	6810	* 6306	504	7.99
	RES(MW)	81	75	6	7.82
	Total (MW)	29431	26434	2997	11.34
12)	Inter-Regional Energy Transfer				
	Export (MU)	4507.23	5542.52	-1035.29	-18.68
	Import (MU)	24.56	1523.19	-1498.63	-98.39
	Net Exp.(+)/Net Imp.(-) (MU)	4482.68	4019.33	463.35	11.53
13)	Import From Captive(MU)	970.61	1040.54	-69.93	-6.72
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 15-09-21 at 08.00Hrs	10245	9974	271	2.72
	Max Import (MW) on 10-09-21 at 15.00Hrs	1461	3935	-2474	-62.88
	Max Net Export(+)/Import (-) (MW)	10177	8902	1275	14.32
15)	Maximum voltage recorded	426	JAMSHEDPUR	400 kv s/s	
16)	Minimum voltage recorded	370	JAMSHEDPUR	400 kv s/s	

\$ Excludes 2196 MW contribution from HEPs of Bhutan

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

POWER SUPPLY POSITION FOR THE MONTH OF SEP'2021

A) Net Average Energy Per Day

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	118.01	120.80	2.79	2.31
JUVNL	30.01	30.99	0.97	3.14
DVC	64.69	64.69	0.00	0.01
ODISHA	107.02	107.03	0.01	0.01
WBSEDCL	132.15	132.33	0.17	0.13
CESC	32.00	32.00	0.00	0.01
SIKKIM	1.57	1.57	0.00	0.01
REGION	485.60	489.41	3.80	0.78

B) Peak Demand in MW:

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	6340	6613	273	4.12
JUVNL	1543	1706	163	9.58
DVC	3037	3037	0	0.00
ODISHA	5605	5610	4	0.08
WBSEDCL	7234	7239	5	0.07
CESC	1783	1783	0	0.0
SIKKIM	102	102	0	0.00
REGION	25010	25454	445	1.75

➤ **DIVERSITY FACTOR : 1.03**

➤ **Regional Peak Demand Met on 5-9-2021 at 21.00 hrs. at 49.98 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA SEP-2021

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 Met (MW)	Gross Peak Demand Met (MW)
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total						
BSPHCL	0.00	174.86	20.17	195.03	0.00	19.27	0.00	19.27	0.00	155.59	20.17	175.76	0.00	3364.48	3540.24	118.0	6340	6366
JUVNL	65.60	107.65	0.00	173.25	0.02	12.98	0.00	13.00	65.58	94.67	0.00	160.25	44.68	695.44	900.37	30.0	1543	1562
DVC	78.97	3257.32	0.00	3336.30	0.21	227.41	0.00	227.62	78.76	3029.92	0.00	3108.68	9.47	-1177.29	1940.58	64.7	3037	3393
ODISHA(OPGC+OHPC+TTPS)	535.32	884.88	52.41	1472.61	4.23	70.87	0.00	75.10	531.09	814.01	52.41	1397.51	742.66	1070.42	3210.58	107.0	5605	5717
WBPDC+WBSEDCL+DPL	175.12	2321.75	17.31	2514.19	0.00	210.09	0.00	210.09	175.12	2111.66	17.31	2304.10	173.80	1486.70	3964.60	132.2	7234	7612
CESEC	0.00	522.03	0.00	522.03	0.00	40.85	0.00	40.85	0.00	481.18	0.00	481.18	0.00	478.78	959.97	32.0	1783	1844
HEL	0.00	393.68	0.00	393.68	0.00	30.28	0.00	30.28	0.00	363.40	0.00	363.40	0.00	-363.40				
SIKKIM	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	45.13	47.13	1.6	102	102
NTPC	0.00	5431.05	0.89	5431.94	0.00	413.22	0.00	413.22	0.00	5017.83	0.89	5018.72	0.00	-5018.72				
MPL	0.00	663.69	0.00	663.69	0.00	37.52	0.00	37.52	0.00	626.17	0.00	626.17	0.00	-626.17				
APNRL	0.00	191.33	0.00	191.33	0.00	16.79	0.00	16.79	0.00	174.53	0.00	174.53	0.00	-174.53				
GMR	0.00	458.22	0.00	458.22	0.00	30.88	0.00	30.88	0.00	427.33	0.00	427.33	0.00	-427.33				
JITPL	0.00	721.87	0.00	721.87	0.00	44.56	0.00	44.56	0.00	677.31	0.00	677.31	0.00	-677.31				
NHPC (Inc TLDP= 200.82 MU)	613.79	0.00	0.00	613.79	0.00	0.00	0.00	0.00	613.79	0.00	0.00	613.79	0.00	-613.79	0.00			
CHUZACHEN HPS	73.93	0.00	0.00	73.93	0.00	0.00	0.00	0.00	73.93	0.00	0.00	73.93	0.00	-73.93	0.00			
DIKCHU HPS	66.75	0.00	0.00	66.75	0.00	0.00	0.00	0.00	66.75	0.00	0.00	66.75	0.00	-66.75	0.00			
JORHANG HPS	67.03	0.00	0.00	67.03	0.00	0.00	0.00	0.00	67.03	0.00	0.00	67.03	0.00	-67.03	0.00			
TASHIDING HPS	69.33	0.00	0.00	69.33	0.00	0.00	0.00	0.00	69.33	0.00	0.00	69.33	0.00	-69.33	0.00			
TEESTA-III HPS	874.75	0.00	0.00	874.75	0.00	0.00	0.00	0.00	874.75	0.00	0.00	874.75	0.00	-874.75	0.00			
RONGNICHU HEP	63.90	0.00	0.00	63.90	0.00	0.00	0.00	0.00	63.90	0.00	0.00	63.90	0.00	-63.90	0.00			
CHPC(Birpara Receipt)	259.16	0.00	0.00	259.16	0.00	0.00	0.00	0.00	259.16	0.00	0.00	259.16	0.00	-259.16	0.00			
KHPS	8.53	0.00	0.00	8.53	0.00	0.00	0.00	0.00	8.53	0.00	0.00	8.53	0.00	-8.53	0.00			
THPS	510.84	0.00	0.00	510.84	0.00	0.00	0.00	0.00	510.84	0.00	0.00	510.84	0.00	-510.84	0.00			
DAGACHU HPS	73.78	0.00	0.00	73.78	0.00	0.00	0.00	0.00	73.78	0.00	0.00	73.78	0.00	-73.78	0.00			
Mangdechhu HEP	481.05	0.00	0.00	481.05	0.00	0.00	0.00	0.00	481.05	0.00	0.00	481.05	0.00	-481.05	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														4.44	4.44			
Total	4017.85	18036.20	92.78	19238.96	4.46	1154.73	0.00	1159.19	4013.38	13973.61	92.78	18079.77	970.60	-4482.21	14567.90	485.6	25010	25798

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

A) Net Average Energy

Month	2020-21					2021-22				
	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)
APRIL	323.27	324.20	0.93	0.29	50.00	495.89	497.87	1.98	0.40	49.99
MAY	355.60	360.37	4.77	1.32	50.00	429.83	430.89	1.06	0.25	49.99
JUNE	425.23	425.91	0.69	0.16	50.00	462.07	462.84	0.77	0.17	49.99
JULY	447.56	448.25	0.70	0.16	49.99	498.44	500.02	1.57	0.31	50.00
AUGUST	447.69	449.62	1.93	0.43	49.99	501.37	505.13	3.76	0.74	49.99
SEPTEMBER	465.31	465.52	0.20	0.04	49.99	485.60	489.40	3.80	0.78	50.00
OCTOBER	448.87	448.96	0.09	0.02	50.00	-	-	-	-	-
NOVEMBER	358.25	358.45	0.20	0.06	49.99	-	-	-	-	-
DECEMBER	361.19	361.95	0.76	0.21	50.00	-	-	-	-	-
JANUARY	385.74	386.81	1.07	0.28	49.99	-	-	-	-	-
FEBRUARY	395.83	397.69	1.86	0.47	49.99	-	-	-	-	-
MARCH	452.63	455.10	2.48	0.54	49.99	-	-	-	-	-

B) Peak in MW:

Month	2020-21					2021-22				
	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	18093	18302	209	1.14	50.00	24405	24405	0	0.00	49.99
MAY	20166	20306	140	0.69	50.00	24191	24191	0	0.00	49.99
JUNE	21832	21989	156	0.71	50.00	23494	23521	28	0.12	49.99
JULY	22643	22735	92	0.40	49.99	25145	26019	874	3.36	50.00
AUGUST	22192	22399	207	0.92	49.99	24157	24236	79	0.33	49.99
SEPTEMBER	23563	23619	56	0.24	49.99	25010	25454	445	1.75	50.00
OCTOBER	23374	23374	0	0.00	50.00	-	-	-	-	-
NOVEMBER	20406	20465	59	0.29	49.99	-	-	-	-	-
DECEMBER	19546	19697	151	0.77	50.00	-	-	-	-	-
JANUARY	20496	20703	207	1.00	49.99	-	-	-	-	-
FEBRUARY	20643	20854	211	1.01	49.99	-	-	-	-	-
MARCH	24016	24016	0	0.00	49.99	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF SEP -2021

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 (2021-22) in MU	Cummulative Net Energy Generation upto Current Month (2021-22) in MU
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.00	-0.76	46.72	34.27
	Thermal	Barauni (U# 8)	250.00	250.00	151.11	136.20	860.50	761.30
		Barauni (U# 9)	0.00	0.00	3.70	3.70	44.43	44.43
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	20.05	16.45	247.19	211.60
		Thermal Total	690.00	680.00	174.86	155.59	1198.84	1047.53
	RES		354.91	354.91	20.17	20.17	110.16	110.16
		Total BIHAR		1044.91	1034.91	195.03	175.76	1309.00
JHARKHAND								
JHARKHAND	Thermal	TVNL	420.00	420.00	107.65	94.67	697.14	612.34
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	65.60	65.60	208.37	208.34
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total	190.41	190.41	65.60	65.60	208.37	208.34
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.83	0.00	-4.81
		Chandrapura(U7 # 8)	500.00	500.00	293.94	276.07	1884.41	1710.96
		Durgapur(4)	210.00	210.00	0.00	-0.58	49.57	38.58
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	643.29	572.79	3935.80	3519.31
		Mezia(U # 7,8)	1000.00	1000.00	474.21	446.11	3247.20	3058.40
		Bokaro-A(1)	500.00	500.00	260.35	244.81	1697.87	1600.92
		Durgapur STPS (U#1,2)	1000.00	1000.00	508.47	479.45	3092.31	2911.73
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	538.60	504.95	2956.12	2768.87
	Koderma STPS (U#1,2)	1000.00	1000.00	538.47	507.15	3370.24	3183.80	
		Total Thermal		6750.00	6750.00	3257.32	3029.92	20233.52
Hydro	Maithon (U#1,2,3)	63.20	63.20	36.82	36.79	154.75	154.54	
	Panchet (U#1,2)	80.00	80.00	39.34	39.18	165.36	164.54	
	Tilaya (U#1,2)	4.00	4.00	2.81	2.8	9.72	9.7	
	Hydro Total	147.20	147.20	78.97	78.76	329.82	328.74	
	Total DVC		6897.20	6897.20	3336.30	3108.68	20563.34	19116.49
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	143.70	128.60	865.72	779.77
		Santaldih TPS(U#5&6)	500.00	500.00	332.48	305.26	2036.13	1866.87
		Kolaghat TPS	1260.00	1260.00	382.18	338.66	1946.50	1726.70
		Bakreswar TPP	1050.00	1050.00	591.45	538.81	4013.99	3659.61
		Sagardighi TPP	1600.00	1600.00	703.01	647.95	5334.56	4907.96
		DPPS (300+250 *)	550.00	550.00	168.94	152.39	1204.96	1083.24
		Thermal Total	5340.00	5295.00	2321.75	2111.66	15401.87	14024.14
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.98	23.98	125.16	125.16
		Ramam (4x12.73)	51.00	51.00	36.33	36.33	162.17	162.17
		Teesta C.F. (3x3x7.5)	67.50	67.50	12.54	12.54	47.61	47.61
		Purulia PSS (4x225)	900.00	900.00	102.28	102.28	565.65	565.65
		Total Hydro	1053.50	1053.50	175.12	175.12	900.59	900.59
		RES	500.76	500.76	17.31	17.31	92.71	92.71

➤ DVC, BTPS*B* U#3 210 MW de- commissioned from 01.04.2021

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF SEP -2021

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 (2021-22) in MU	Cummulative Net Energy Generation upto Current Month (2021-22) 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	26.55	24.11	84.89	77.10		
		Budge-Budge (3x250)	750.00	750.00	495.48	457.07	3037.75	2806.06		
		Total CESC	1125.00	1125.00	522.03	481.18	3122.63	2883.16		
HEL	Thermal	HEL	600.00	600.00	393.68	363.40	2382.04	2199.72		
		Total West Bengal	8619.26	8574.26	3429.90	3148.68	21899.83	20100.31		
OPGC	Thermal	IB TPS	420.00	420.00	249.02	220.37	1352.49	1189.38		
		IB TPS U#3(660 MW)	660.00	660.00	247.74	231.30	1524.36	1418.44		
		IB TPS U#4(660 MW)	660.00	660.00	388.12	362.36	2011.38	1873.18		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	122.05	121.75	411.94	410.59		
		Hirakud-II (Chiplima)	72.00	72.00	27.21	27.12	113.26	112.73		
		Balimela (6x60+2x75)	510.00	510.00	64.58	64.13	511.51	506.75		
		Rengali (5x50)	250.00	250.00	126.40	126.18	529.75	528.94		
		Upper Kolab (4x80)	320.00	320.00	35.14	34.91	214.30	212.86		
		Indravati HPS (4x150)	600.00	600.00	131.91	128.97	797.18	780.07		
		Mckd.(Odisha drawal)	57.38	57.38	28.03	28.03	153.93	153.93		
		Total Hydro	2084.88	2084.88	535.32	531.09	2731.87	2705.87		
		RES	539.57	539.57	52.41	52.41	328.81	328.81		
		Total Odisha	4364.45	4364.45	1472.61	1397.53	7948.91	7515.68		
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	10.00	10.00		
NTPC		MTPS Stg-II	390.00	390.00	126.081	112.40	1146.28	1024.26		
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	532.53	483.38	4010.58	3655.14		
		FSTPP (U# 6)	500.00	500.00	269.96	247.65	1634.25	1503.93		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1123.08	1034.19	8198.95	7608.82		
		TSTPP (2x500)	1000.00	1000.00	646.11	593.59	3755.63	3467.25		
		BARH STPS II (2X660)	1320.00	1320.00	593.20	555.20	4133.11	3881.50		
		BARH STPS I (1X660)			109.64	94.50	232.14	182.22		
		BRBCL # I,2,3(3X250 MW)	750	750	284.81	259.79	2380.28	2181.85		
		NSTPS U# I&2	1320.00	1320.00	703.40	659.48	3123.95	2943.88		
		NSTPS U#2 infirm			0.00	0.00	202.55	175.72		
		DSTPP #1&2	1600.00	1600.00	1042.18	977.59	3610.46	3387.47		
		Total NTPC	10820.00	10820.00	5431.00	5017.78	32718.44	30245.42		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	41.61	41.61	199.69	199.69
				Teesta (3x170)	510.00	510.00	371.36	371.36	1810.50	1810.50
TLDP(4x33+4x40) for WBSEDCL	292.00			292.00	200.82	200.82	959.05	959.05		
Total NHPC	862.00			862.00	613.79	613.79	2969.24	2969.24		
			MPL (U#1&2)	1050.00	1050.00	663.69	626.17	4083.64	3850.02	
			APNRL (U#1,2)	540.00	540.00	191.33	174.53	1696.58	1542.75	
			GMR (2x350)	700.00	700.00	458.22	427.33	2448.11	2276.77	
			JITPL (2X600)	1200.00	1200.00	721.87	677.31	4429.31	4140.87	
			CHUZACHEN** (2x55)	110.00	110.00	73.93	73.93	380.09	380.09	
			JORETHANG (2x48)	96.00	96.00	67.03	67.03	296.32	296.32	
			TEESTA URJA St III (6x200)	1200.00	1200.00	874.75	874.75	4491.70	4491.70	
			Tashilding (2x48.5)	97.00	97.00	69.33	69.33	296.39	296.39	
			DICKCHU (2x48)	96.00	96.00	66.75	66.75	375.13	375.13	
			RONGNICHU HEP (2x56.5)			63.90	63.90	209.77	209.77	
			TALCHER SOLAR	10.00	10.00	0.89	0.89	6.37	6.37	
			Total Thermal (E.R)	30975.00	30920.00	15128.28	13973.57	93300.35	86091.48	
			Total Hydro (E.R)	5989.58	5989.58	2684.49	2680.04	13189.29	13162.17	
			Total RES	1517.83	1517.83	92.78	92.78	548.06	548.06	
			EASTERN REGIONAL	TOTAL (E.R)		38482.41	38427.41	17905.54	16746.39	107037.69
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	229.11	229.11	1249.34	1249.34		
		Kurichu (4x15)	60.00	60.00	48.59	48.59	79.88	79.88		
		TALA (6x170)	1020.00	1020.00	479.89	479.89	2179.17	2179.17		
		DAGACHU (2x63)	126.00	126.00	73.78	73.78	319.65	319.65		
		MANGDECHU(4x180)	720.00	720.00	502.41	502.41	2164.96	2164.96		
Grand Total			40768.41	40623.41	19239.33	18080.18	113030.70	105794.71		

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF SEP' 2021

ORGANISATION	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 (2021-22) in MU	Cummulative PLF upto Current Month (%)
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.00	0.00	46.72	5.07
	Thermal	Barauni (U# 8)	250.00	250.00	151.11	83.95	860.50	78.37
		Barauni (U# 9)	0.00	0.00	3.70	0.00	44.43	0.00
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	20.05	12.66	247.19	25.58
		Thermal Total	690.00	680.00	174.86	34.96	1198.84	38.65
		RES	354.91	354.91	20.17		110.16	
		Total BIHAR	1044.91	1034.91	195.03		1309.00	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	107.65	35.60	697.14	37.79
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	65.60		208.37	
	RES		60.41	60.41	0.00		0.00	
		Total	190.41	190.41	65.60		208.37	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	293.94	81.65	1884.41	85.81
		Durgapur(4)	210.00	210.00	0.00	0.00	49.57	5.37
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	643.29	66.68	3935.80	66.88
		Mezia(U # 7,8)	1000.00	1000.00	474.21	65.86	3247.20	73.93
		Bokaro-A(1)	500.00	500.00	260.35	72.32	1697.87	77.32
		Durgapur STPS (U#1,2)	1000.00	1000.00	508.47	70.62	3092.31	70.41
	Raghunathpur TPS (U#1,2)	1200.00	1200.00	538.60	62.34	2956.12	56.09	
		Koderma STPS (U#1,2)	1000.00	1000.00	538.47	74.79	3370.24	76.74
		Total Thermal	6750.00	6750.00	3257.32	67.02	20233.52	68.25
Hydro	Maithon (U#1,2,3)	63.20	63.20	36.82		154.75		
	Panchet (U#1,2)	80.00	80.00	39.34		165.36		
	Tilaya (U#1,2)	4.00	4.00	2.81		9.72		
	Hydro Total	147.20	147.20	78.97		329.82		
	Total DVC	6897.20	6897.20	3336.30		20563.34		
WEST BENGAL								
WBPDCL	Thermal	Bandel TPS	380.00	335.00	143.70	59.58	865.72	58.84
		Santalidih TPS(U#5&6)	500.00	500.00	332.48	92.35	2036.13	92.72
		Kolaghat TPS	1260.00	1260.00	382.18	42.13	1946.50	35.17
		Bakreswar TPP	1050.00	1050.00	591.45	78.23	4013.99	87.04
		Sagardighi TPP	1600.00	1600.00	703.01	61.03	5334.56	75.91
		DPPS (300+250 *)	550.00	550.00	168.94	42.66	1204.96	49.88
		Thermal Total	5340.00	5295.00	2321.75	60.90	15401.87	66.23
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.98		125.16	
		Ramam (4x12.73)	51.00	51.00	36.33		162.17	
		Teesta C.F. (3x3x7.5)	67.50	67.50	12.54		47.61	
		Purulia PSS (4x225)	900.00	900.00	102.28		565.65	
		Total Hydro	1053.50	1053.50	175.12		900.59	
		RES	500.76	500.76	17.31		92.71	
DE-COMMISSIONED	WBPDCL,Bandel TPS Unit #3 & #4 (IC=2X82.5 MW,EC=2X60 MW) decommissioned from 01.04.2018. NTPC, TTPS Odisha All Six units(4X62.5+2X110) decommissioned from 01.04.2021 DVC, BTPS(B) Unit #3 (210 MW) de-commissioned from 01.04.2021 DPL U#6 (110 MW) Decommissioned from 28.01.20 as per CEA. CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA.							
COMMISSIONED	1. IB U#3 (660 MW) COD from 03.07.19 2. IB U#4 (660 MW) COD from 21.08.19 3.NSTPS U#1(660 MW) COD from 06.09.2019 4.BARAUNI TPS U#1(250 MW) COD 01.03.2020 5.DARLIPALI S TPS U#1(800 MW) COD 01.03.2020 6.NSTPS U#2 (660 MW) COD from 23.07.2021							

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF SEP' 2021

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 (2021-22) 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	26.55	27.32	84.89	14.32		
		Budge-Budge (3x250)	750.00	750.00	495.48	91.76	3037.75	92.22		
		Total CESC	1125.00	1125.00	522.03	64.45	3122.63	63.20		
HEL	Thermal		600.00	600.00	393.68	91.13	2382.04	90.39		
		Total West Bengal	8619.26	8574.26	3429.90		21899.83			
OPGC	Thermal	IB TPS	420.00	420.00	249.02	82.35	1352.49	73.32		
		IB TPS U#3(660 MW)	660.00	660.00	247.74	52.13	1524.36	52.59		
		IB TPS U#4(660 MW)	660.00	660.00	388.12	81.68	2011.38	69.39		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	122.05		411.94			
		Hirakud-II (Chiplima)	72.00	72.00	27.21		113.26			
		Balimela (6x60+2x75)	510.00	510.00	64.58		511.51			
		Rengali (5x50)	250.00	250.00	126.40		529.75			
		Upper Kolab (4x80)	320.00	320.00	35.14		214.30			
		Indravati HPS (4x150)	600.00	600.00	131.91		797.18			
		Mckd.(Odisha drawal)	57.38	57.38	28.03		153.93			
		Total Hydro	2084.88	2084.88	535.32		2731.87			
		RES	539.57	539.57	52.41		328.81			
		Total Odisha	4364.45	4364.45	1472.61		7948.91			
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		10.00			
NTPC		MTPS Stg-II	390	390	126.081	44.90	1146.28	66.92		
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	532.53	46.23	4010.58	57.07		
		FSTPP (U# 6)	500.00	500.00	269.96	74.99	1634.25	74.42		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1123.08	66.66	8198.95	79.78		
		TSTPP (2x500)	1000.00	1000.00	646.11	89.74	3755.63	85.51		
		BARH STPS II (2X660)	1320.00	1320.00	593.20	62.42	4133.11	71.29		
		BARH STPS I (1X660)			109.64		232.14			
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	284.81	52.74	2380.28	72.26		
		NSTPS U# 1&2	1320.00	1320.00	703.40	74.01	3123.95	77.95		
		NSTPS U#2 infirm			0.00		202.55			
		DSTPP #1&2	1600.00	1600.00	1042.18	90.47	3610.46	88.28		
		Total NTPC	10820.00	10820.00	5431.00	68.31	32718.44	74.76		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	41.61		199.69	
				Teesta (3x170)	510.00	510.00	371.36		1810.50	
TLDP(4x33+4x40) for WBSEDCL	292.00			292.00	200.82		959.05			
Total NHPC	862.00			862.00	613.79		2969.24			
Thermal	MPL (U#1&2)		1050.00	1050.00	663.69	87.79	4083.64	88.55		
	APNRL (U#1,2)		540.00	540.00	191.33	49.21	1696.58	71.53		
	GMR (2x350)		700.00	700.00	458.22	90.92	2448.11	79.63		
	JITPL (2X600)		1200.00	1200.00	721.87	83.55	4429.31	84.04		
	CHUZACHEN** (2x55)		110.00	110.00	73.93		380.09			
	JORETHANG (2x48)		96.00	96.00	67.03		296.32			
	TEESTA URJA St III (6x200)		1200.00	1200.00	874.75		4491.70			
	Tashilding (2x48.5)		97.00	97.00	69.33		296.39			
	DICKCHU (2x48)		96.00	96.00	66.75		375.13			
	RONGNICHU HEP (2x56.5)				63.90		209.77			
TALCHER SOLAR	10.00	10.00	0.89		6.37					
Total Thermal (E.R)	30975.00	30920.00	15128.28	67.45	93300.35	70.59				
EASTERN REGIONAL		Total Hydro (E.R)	5989.58	5989.58	2684.49		13189.29			
		Total RES	1517.83	1517.83	92.78		548.06			
		TOTAL (E.R)	38482.41	38427.41	17905.54		107037.69			
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	229.11		1249.34			
		Kurichu (4x15)	60.00	60.00	48.59		79.88			
	Hydro	TALA (6x170)	1020.00	1020.00	479.89		2179.17			
	Hydro	DAGACHU (2x63)	126.00	126.00	73.78		319.65			
		MANGDECHU(4x180)	720.00	720.00	502.41		2164.96			
		Grand Total	40768.41	40623.41	19239.33		113030.70			

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF SEP'2021 (5-9-2021)

Date 5-Sep-21
Time 21.00 Hrs.
Frequency 49.98 Hz.

(All Fig. in MW)

System/State	Installed	Effective	Hydro	Thermal	RES	Net Gen
	Capacity	Capacity				Total
BSPHCL	1045	1035	0	386	0	386
JUVNL	610	610	99	142	0	241
DVC	6897	6897	91	4804	0	4895
ODISHA	4364	4364	1062	1198	81	2341
WBSEDCL	6344	6299	675	3461	0	4135
TLDP	292	292	293	0	0	293
HEL HALDIA	600	600	0	549	0	549
CESC	1125	1125	0	758	0	758
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	10820	10820	0	8296	0	8296
NHPC	570	570	586	0	0	586
CHUKHA	360	270	378	0	0	378
KURICHU	60	60	81	0	0	81
TALA	1020	1020	791	0	0	791
MPL	1050	1050	0	965	0	965
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	247	0	247
Kamalganga (GMR)	700	700	0	666	0	666
JITPL	1200	1200	0	1069	0	1069
RONGNICHU HEP (2x56.5)	113	113	103	0	0	103
Chuzachen	110	110	119	0	0	119
Jorethang	96	96	101	0	0	101
TEESTA URJA St III	1200	1200	1305	0	0	1305
Tashilding	97	97	106	0	0	106
DICKCHU	96	96	105	0	0	105
<u>Daghachu</u>	126	126	123	0	0	123
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	792	0	0	792
Total	40768	40623	6810	22540	81	29431
Import From Captive:						1395
Export To:						
NER						516
SR						1269
WR						-529
NR						3876
Bangladesh						729
Nepal						-45
Total						5816
➤ nal Net Peak Demand Met (MW) :						25010

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of SEP'2021 (5-9-2021)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From Hydro of Bhutan	Export to other region	Met	Correction	Shed	Requirement
1	4213	21718	25931	1273	2304	5018	24490	-4	298	24783
2	3927	21358	25284	1214	2302	5173	23628	8	0	23636
3	3878	21295	25173	1227	2303	5415	23287	31	0	23317
4	3582	21289	24871	1211	2304	5565	22821	12	0	22833
5	3415	21497	24911	1252	2308	5890	22581	28	0	22609
6	3481	21332	24813	1246	2290	6442	21906	-8	416	22315
7	3478	21181	24659	1244	2262	7053	21112	-39	192	21265
8	3574	21080	24654	1265	2252	7571	20601	-22	66	20645
9	3535	20292	23827	1266	2263	6747	20608	-32	46	20622
10	3602	19876	23478	1206	2263	6185	20763	-31	41	20772
11	3599	19166	22766	1212	2268	5468	20777	-25	76	20827
12	3780	18463	22243	1191	2264	4861	20837	-5	396	21227
13	3763	18320	22083	1177	2269	4151	21378	-13	4	21382
14	3793	18226	22019	1211	2283	4067	21446	4	0	21449
15	3880	18428	22308	1297	2295	4103	21797	71	273	22141
16	3685	18640	22325	1289	2304	4266	21652	-8	0	21652
17	3498	19008	22506	1339	2293	5129	21009	9	0	21018
18	3528	19714	23242	1308	2280	6008	20821	16	0	20838
19	4321	21116	25437	1376	2252	5772	23292	12	691	23996
20	4531	22485	27017	1394	2255	6598	24066	36	534	24636
21	4623	22540	27163	1395	2268	5816	25010	20	425	25454
22	4518	22372	26890	1506	2286	5853	24829	-22	113	24921
23	4300	22143	26443	1563	2308	5738	24577	-13	0	24577
24	4235	22029	26264	1522	2314	5551	24550	-2	116	24664

Hourly Load Generation Data of ER On Regional Lean Day During The Month of SEP'2021 (15-9-2021)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From Hydro of Bhutan	Export to other region	Met	Correction	Shed	Requirement
1	3550	19225	22776	1360	2276	8182	18229	24	11	18265
2	3374	18936	22309	1322	2270	8347	17554	35	12	17602
3	3353	18784	22138	1312	2274	8569	17155	-6	15	17164
4	3391	18793	22184	1313	2251	9180	16568	-6	16	16578
5	3440	18127	21567	1246	2239	8844	16208	10	19	16237
6	3512	17956	21469	1154	2216	9001	15837	7	20	15865
7	3697	18431	22128	1165	2197	9646	15844	30	30	15904
8	3850	19436	23286	1182	2184	10177	16475	33	28	16536
9	3803	19156	22959	1174	2189	9515	16807	-10	122	16918
10	3612	18975	22587	1188	2185	9170	16790	-3	326	17114
11	3608	18799	22407	1174	2154	8383	17352	-15	22	17358
12	3761	18354	22115	1189	2154	7787	17672	-5	3	17674
13	3704	17991	21696	1189	2138	7323	17699	-19	1	17700
14	3577	17956	21533	1209	2071	7345	17468	-9	1	17469
15	3444	18206	21650	1228	2024	7642	17260	24	365	17649
16	3416	18694	22109	1185	2072	7782	17585	28	226	17839
17	3468	19301	22769	1205	2080	8177	17877	42	373	18292
18	3573	20206	23779	1257	2068	8212	18892	8	967	19867
19	4147	21189	25337	1296	2039	7888	20782	138	846	21766
20	4376	21483	25859	1327	2052	7605	21634	78	178	21890
21	4316	21494	25810	1351	2060	7563	21658	55	178	21891
22	4349	21597	25945	1383	2077	7703	21701	49	0	21751
23	4496	21436	25932	1364	2120	8448	20967	7	459	21433
24	3747	21046	24793	1413	2124	8142	20188	12	172	20373

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

FOR THE MONTH OF SEP'2021

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 83.55 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 29.09 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 4.90 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-21

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		HZ		HZ		HZ		HZ	
01-Sep	49.99	50.02	49.99	50.01	50.00	50.00	1.30	81.30	17.40	81.30	50.13	18:01:50	49.83	19:17:40	50.08	0:00	49.92	0:00
02-Sep	49.98	49.96	49.98	49.98	49.97	49.97	11.20	77.10	11.70	77.10	50.13	14:01:50	49.63	16:53:50	50.08	0:00	49.72	0:00
03-Sep	49.99	49.99	50.03	50.02	50.04	50.01	0.40	73.50	26.10	73.50	50.15	13:01:10	49.87	18:25:30	50.12	0:00	49.93	0:00
04-Sep	50.02	50.03	50.01	50.00	49.99	50.01	0.60	78.10	21.30	78.10	50.22	09:01:50	49.85	11:11:10	50.16	0:00	49.94	0:00
05-Sep	49.98	50.04	49.99	49.98	50.01	50.00	3.70	78.50	17.80	78.50	50.16	06:03:20	49.77	14:49:20	50.10	0:00	49.87	0:00
06-Sep	49.99	50.00	49.99	49.99	50.01	49.99	2.30	85.20	12.60	85.20	50.15	10:02:30	49.76	17:47:30	50.09	0:00	49.92	0:00
07-Sep	49.98	50.03	49.99	49.98	49.98	50.00	6.40	81.30	12.30	81.30	50.13	13:00:50	49.79	18:18:40	50.08	0:00	49.86	0:00
08-Sep	49.99	50.00	49.98	49.96	49.98	49.98	6.10	82.50	11.40	82.50	50.16	13:02:40	49.72	19:20:40	50.07	0:00	49.86	0:00
09-Sep	49.98	49.98	50.01	49.97	49.98	49.99	6.80	81.00	12.20	81.00	50.13	13:01:20	49.75	16:51:10	50.10	0:00	49.85	0:00
10-Sep	49.98	50.02	50.02	50.00	50.01	50.01	1.80	75.40	22.80	75.40	50.23	13:04:40	49.84	17:31:20	50.14	0:00	49.91	0:00
11-Sep	50.01	50.03	49.99	49.99	50.01	50.00	3.50	75.40	21.10	75.40	50.18	08:00:50	49.77	15:55:00	50.10	0:00	49.83	0:00
12-Sep	49.98	50.02	50.02	49.98	49.99	50.00	2.95	78.09	18.96	78.09	50.22	13:06:50	49.81	18:36:20	50.12	0:00	49.90	0:00
13-Sep	50.00	49.99	50.00	49.99	49.98	49.99	3.50	81.90	14.60	81.90	50.20	06:01:50	49.69	17:50:30	50.10	0:00	49.80	0:00
14-Sep	50.00	50.01	49.98	49.93	50.01	49.98	7.90	80.00	12.10	80.00	50.13	08:02:30	49.68	17:41:20	50.08	0:00	49.72	0:00
15-Sep	49.98	49.98	49.99	49.91	49.99	49.97	12.60	76.20	11.20	76.20	50.13	06:02:40	49.80	18:42:10	50.06	0:00	49.71	0:00
16-Sep	49.98	50.02	49.99	49.97	50.01	49.99	5.10	81.00	13.90	81.00	50.15	08:00:00	49.74	17:45:40	50.10	0:00	49.88	0:00
17-Sep	49.98	49.97	49.99	50.01	50.02	49.99	5.63	78.72	15.66	78.72	50.15	18:03:10	49.63	06:12:40	50.10	0:00	49.84	0:00
18-Sep	50.01	50.00	50.01	49.94	50.00	49.99	5.91	76.97	17.12	76.97	50.18	13:04:00	49.79	18:41:10	50.10	0:00	49.71	0:00
19-Sep	49.97	50.01	50.00	50.00	50.00	50.00	4.21	81.66	14.13	81.66	50.18	18:02:40	49.78	10:18:00	50.10	0:00	49.85	0:00
20-Sep	50.01	50.01	50.00	49.99	50.04	50.01	3.19	75.34	21.47	75.34	50.18	14:35:20	49.89	16:54:00	50.12	0:00	49.84	0:00
21-Sep	50.03	50.03	50.03	50.04	50.02	50.03	0.05	59.34	40.61	59.34	50.20	22:01:40	49.76	14:26:00	50.09	0:00	49.97	0:00
22-Sep	50.01	50.01	50.00	50.01	50.02	50.01	1.62	78.77	19.61	78.77	50.18	13:28:20	49.84	18:39:20	50.10	0:00	49.85	0:00
23-Sep	50.02	49.99	50.02	50.01	50.03	50.01	2.09	69.03	28.88	69.03	50.15	22:03:00	49.84	10:29:50	50.10	0:00	49.90	0:00
24-Sep	50.00	49.98	49.99	49.87	50.02	49.97	10.23	78.21	11.56	78.21	50.18	12:59:50	49.50	18:42:40	50.06	0:00	49.61	0:00
25-Sep	50.00	50.02	50.03	50.03	49.99	50.02	0.39	72.53	27.08	72.53	50.23	18:01:30	49.84	23:20:00	50.11	0:00	49.96	0:00
26-Sep	50.00	50.01	50.00	50.03	49.98	50.01	0.31	81.66	18.03	81.66	50.17	18:03:10	49.88	23:18:10	50.07	0:00	49.92	0:00
27-Sep	50.02	50.03	50.04	50.03	50.00	50.03	0.93	70.46	28.61	70.46	50.21	13:01:50	49.84	23:04:00	50.14	0:00	49.93	0:00
28-Sep	49.99	50.01	50.00	50.02	50.00	50.00	1.13	70.43	28.44	70.43	50.20	13:02:00	49.85	23:04:10	50.14	0:00	49.93	0:00
29-Sep	50.00	50.01	50.00	50.01	49.99	50.00	3.03	76.94	20.02	76.94	50.14	18:03:50	49.82	13:20:10	50.08	0:00	49.87	0:00
30-Sep	50.00	49.98	49.99	49.96	50.01	49.98	10.52	73.72	15.76	73.72	50.17	12:03:30	49.68	18:27:30	50.08	0:00	49.80	0:00
MAX	50.03	50.04	50.04	50.04	50.04	50.03	12.60	85.20	40.61	85.20	50.23		49.89		50.16		49.97	
MIN	49.97	49.96	49.98	49.87	49.97	49.97	0.05	59.34	11.20	59.34	50.13		49.50		50.06		49.61	
AVG	50.00	50.01	50.00	49.99	50.00	50.00	4.18	77.01	18.81	77.01	50.17		49.77		50.10		49.85	

SUMMARY:

Avg. Frequency : **50.0 Hz.**

Instantaneous Frequency :

Maximum Frequency : 50.23 Hz at 13:04 Hrs.

Minimum Frequency : 49.50 Hz at 18:42 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.16 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.61 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	4.18	77.01	18.81

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF SEP'2021

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	416	400	416	397	421	391	413	391

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	388	426	370	407	397	417	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 (49.4 Hz) (Inst.)	STAGE-II (49.2 Hz) (Inst.)	STAGE-III (49.0 Hz) (Inst.)	STAGE-IV 48.8 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. Revised UFR Scheme (Stg-I 49.4Hz. Stg-II 49.2 Hz Stg-III 49.0 Hz and Stg-IV 48.8 Hz) implemented from March/ April-2020

A.

**WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN
Sep-21**

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(30-09-21)	(30-09-20)		
Hirakud	192	180	192.02	191.99	188.98	01.09.21
Balimela	462	439	451.41	457.47	447.39	01.09.21
Rengali	123	109	123.53	122.50	121.39	01.09.21
Upperkolab	858	844	851.44	851.36	847.87	01.09.21
Indravati	642	625	632.97	638.12	631.53	01.09.21
Subernrekha	590	580	589.00	587.26	588.48	01.09.21

B.

CPP/IPP IMPORT by Eastern Region Constituents during Sep-21

(All figs. are in MU)

System	Tata Power	Cresent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	44.68
West Bengal	56.86	25.42	0	0	0	0	0	91.54	173.81
ODISHA	0	0	23.30	315.42	2.87	0.00	0	401.07	742.65
DVC	0	0	0	0	0	0	9.47	0	9.47
TOTAL	56.86	25.42	23.30	315.42	2.87	0.00	9.47	492.61	970.61

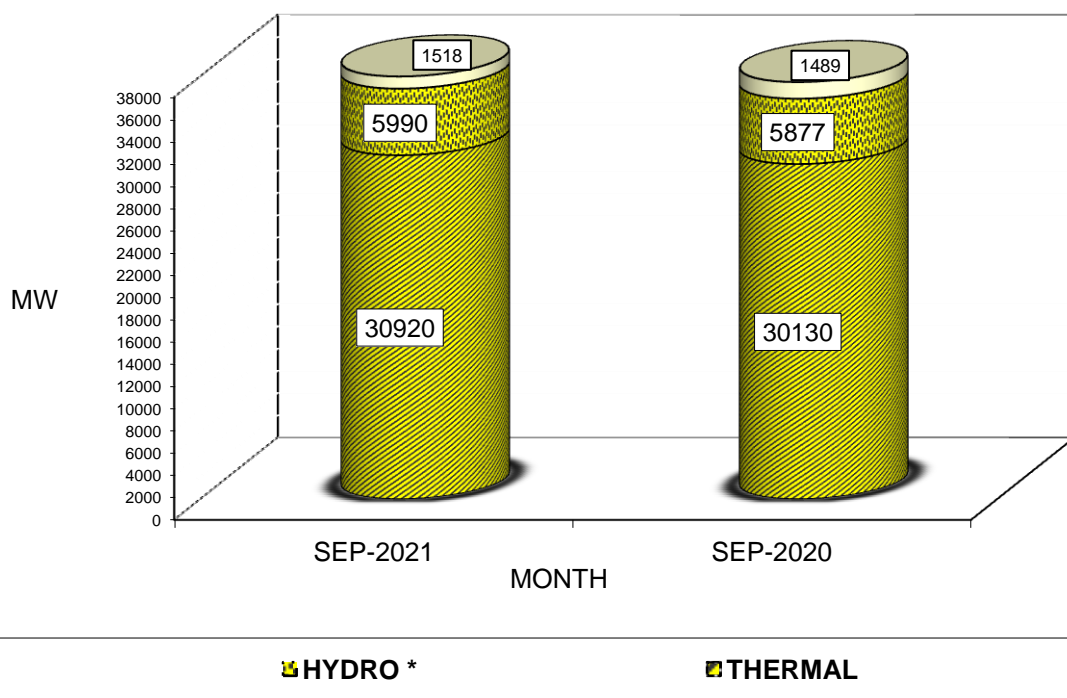
C.

Distribution of Schedule Supply among Key Customers by IPPs during Sep-21

(All figs. are in MU)

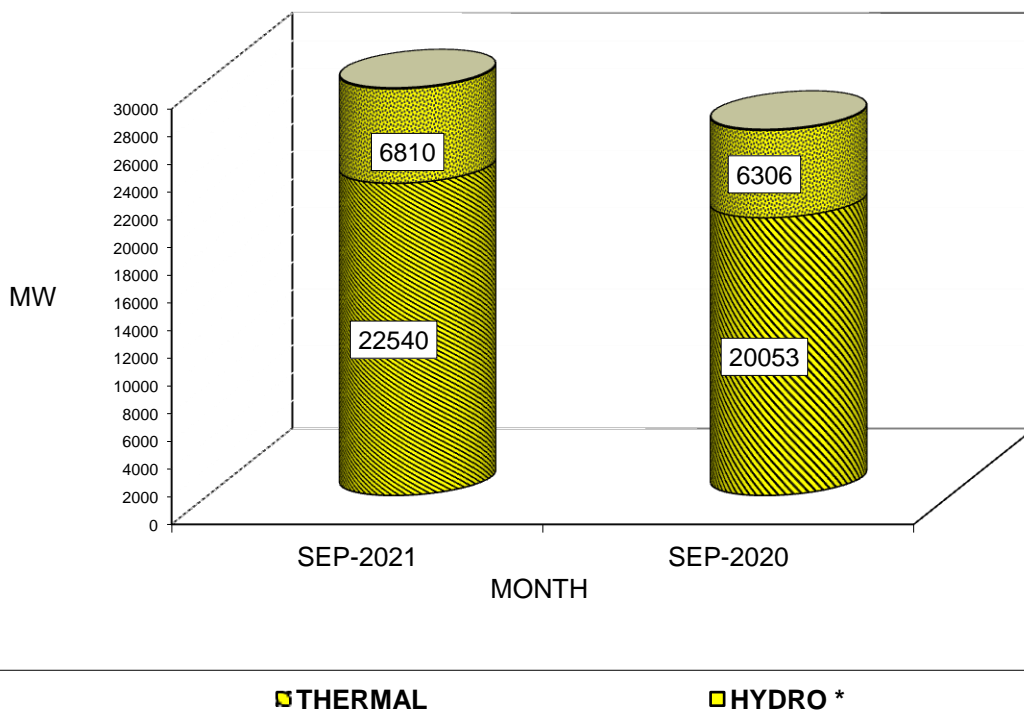
IPP	TPDDL	WBSEDCL/ WBPDCD	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	187.95	183.29	89.17	0.00	0	0	163.11	623.52
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
Total	187.95	183.29	89.17	0.00	0.00	0.00	163.11	623.52

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



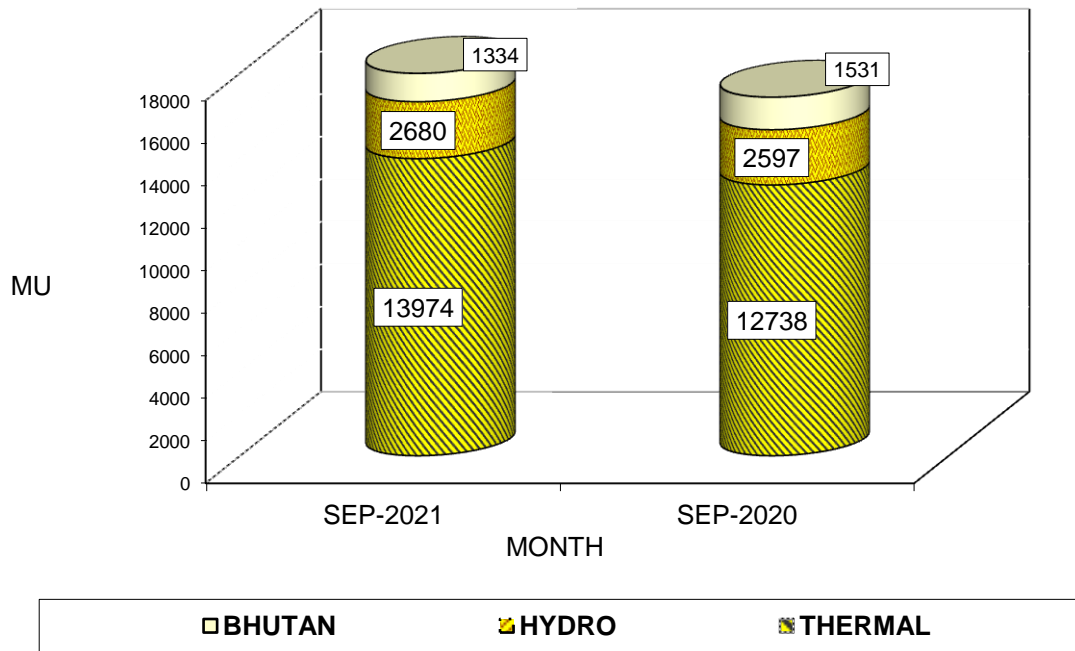
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

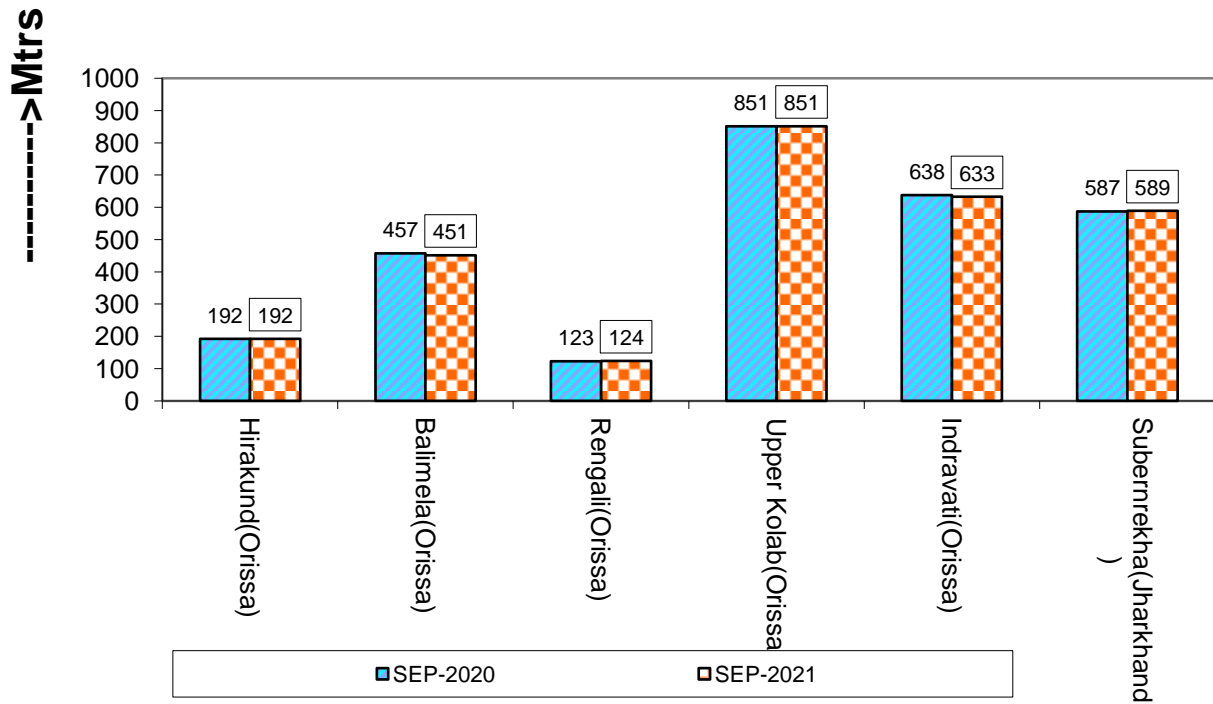


*Includes contribution from HEP of Bhutan

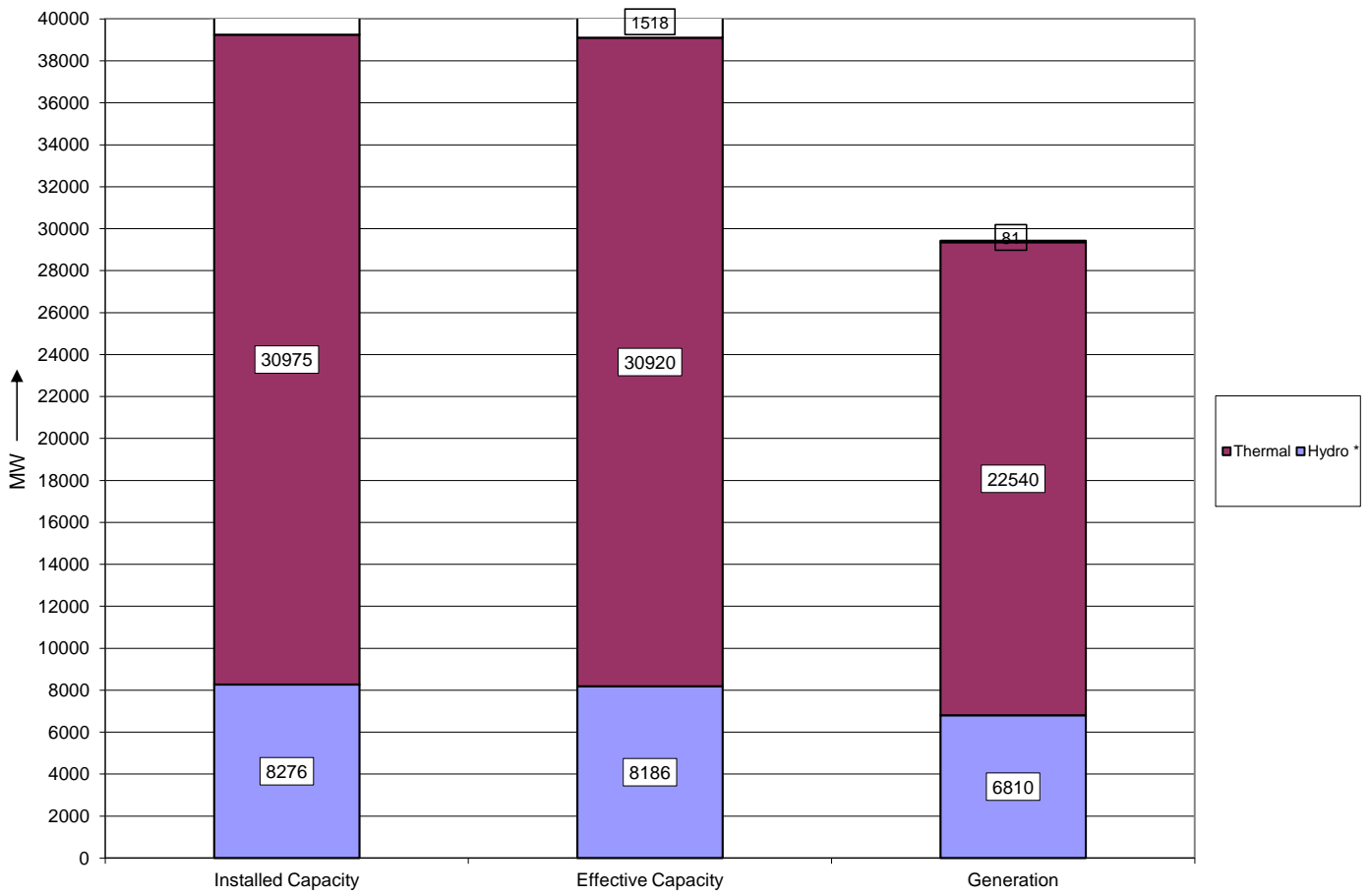
NET ENERGY GENERATION



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

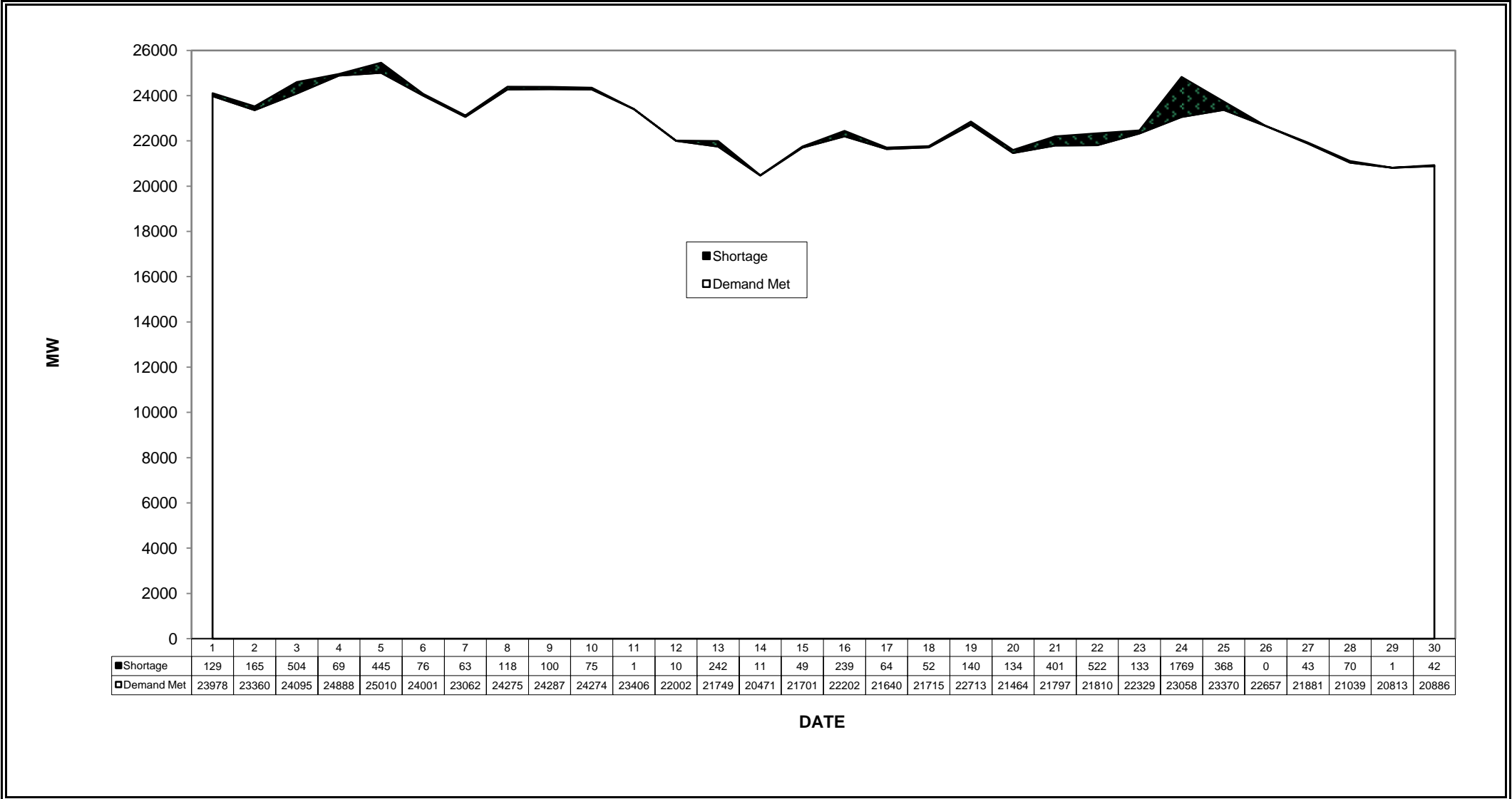


Capacity / Actual Generation Pattern of ER on Peak Day (5-9-2021) at 21.00 hrs.

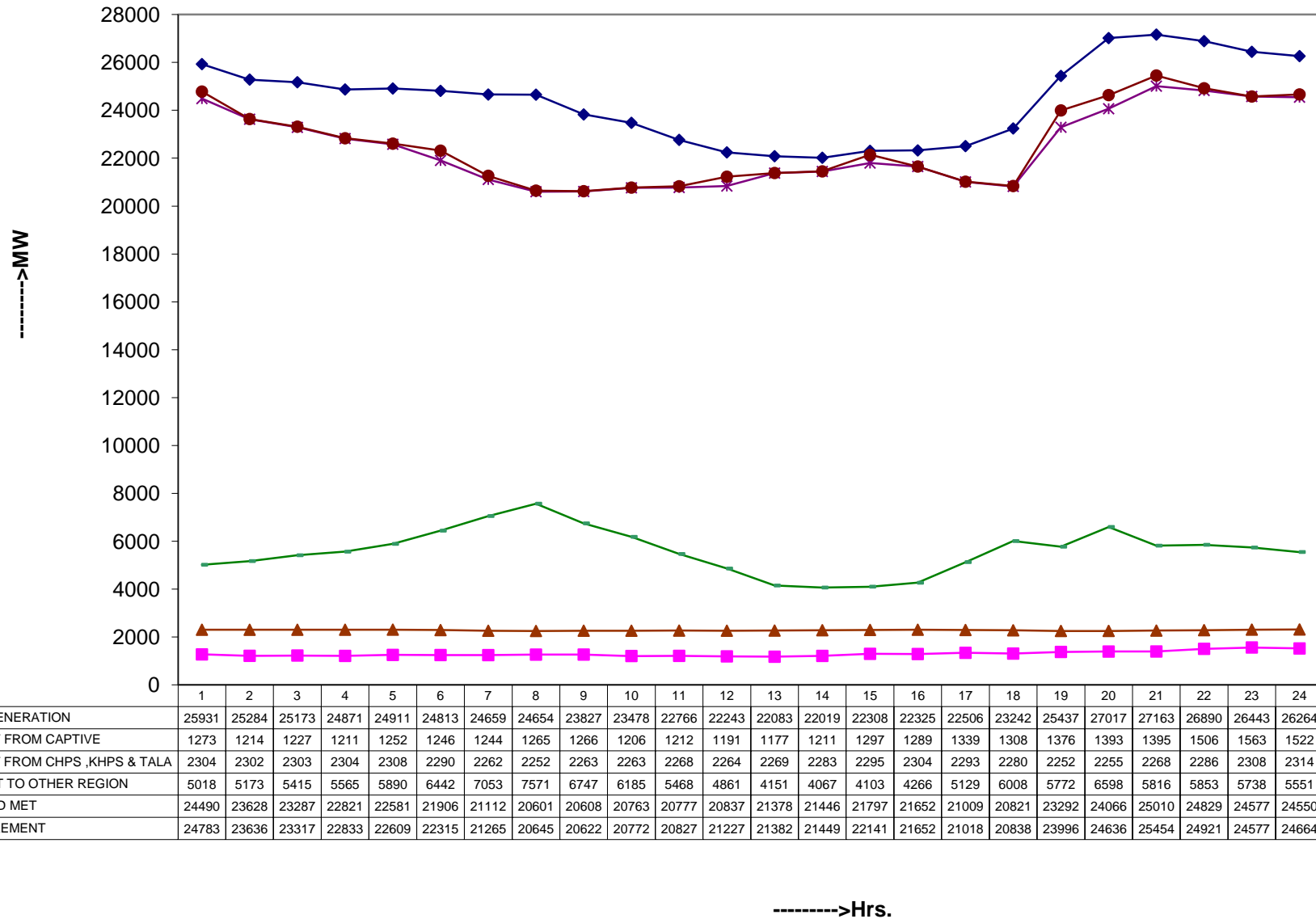


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

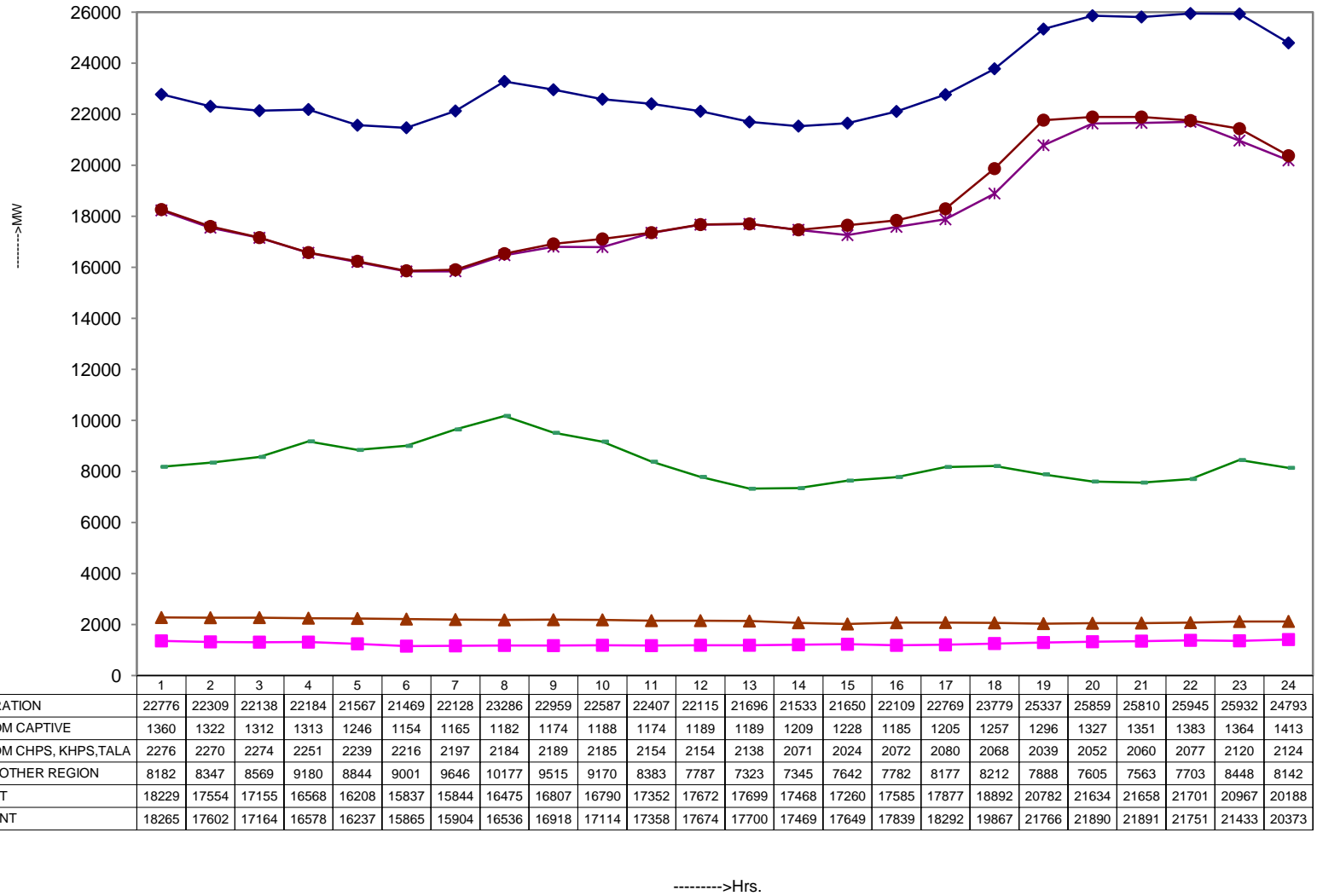
Peak Demand Met / Shortage of Eastern Region For The Month Of SEP'2021



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of SEP'2021 (5-9-2021)

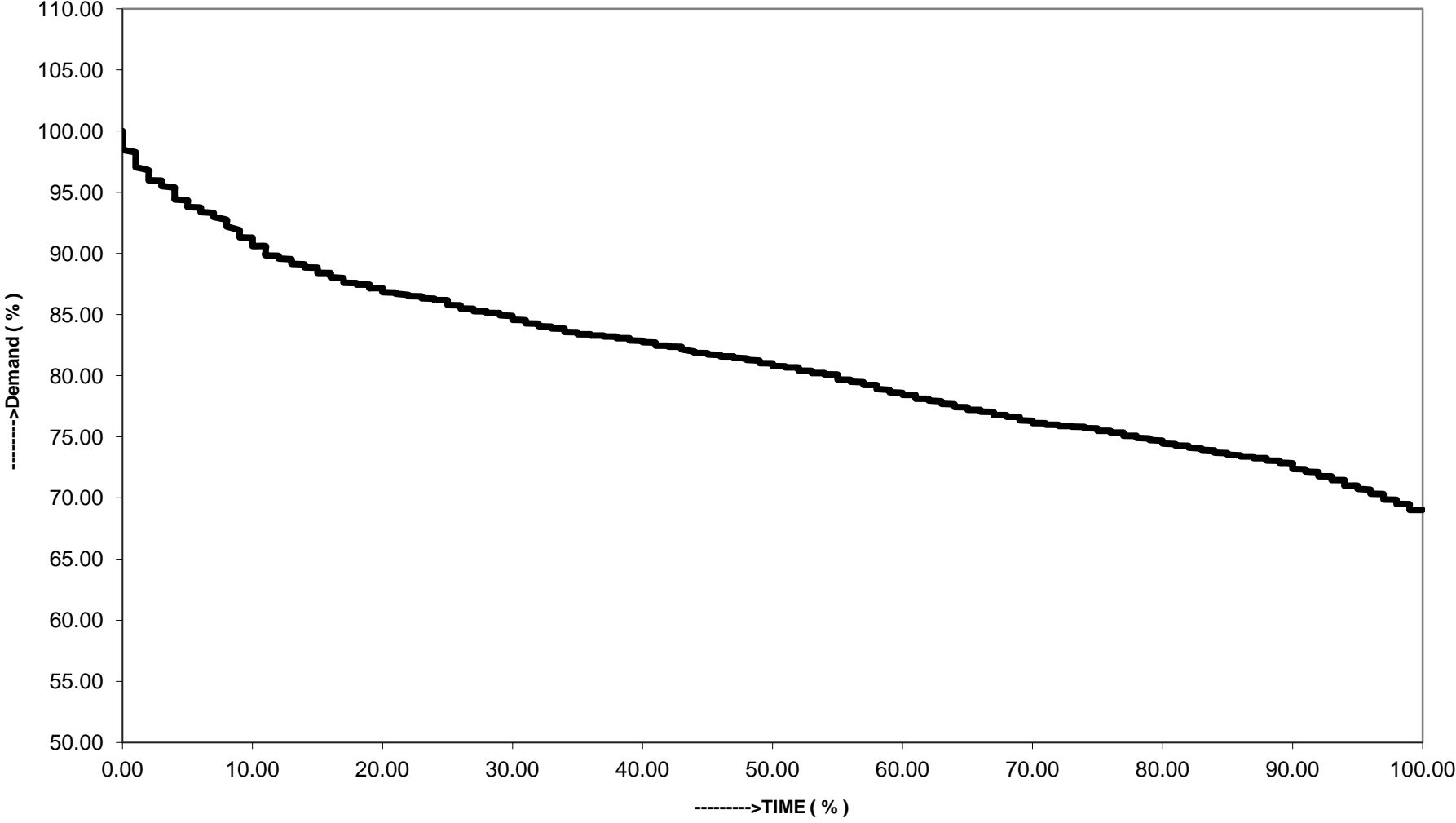


Hourly Load Generation Data of ER On Regional Lean Day During The Month of SEP'2021 (15-9-2021)



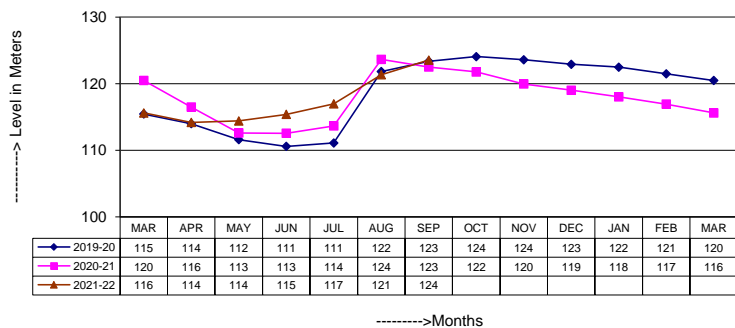
Monthly Load Duration Curve of Eastern Region for SEP-2021

Maximum Demand met : 25010 MW
Minimum Demand met: 15837 MW

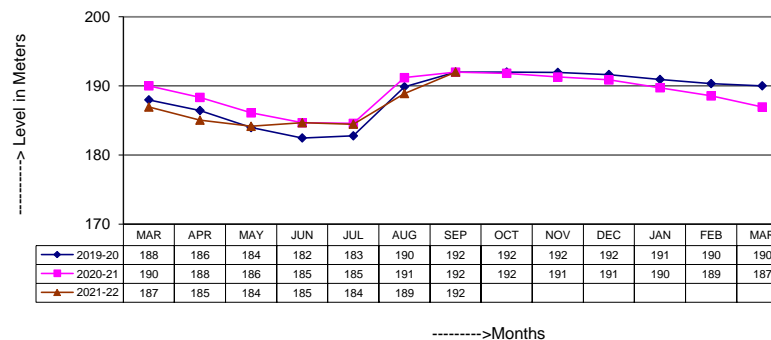


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

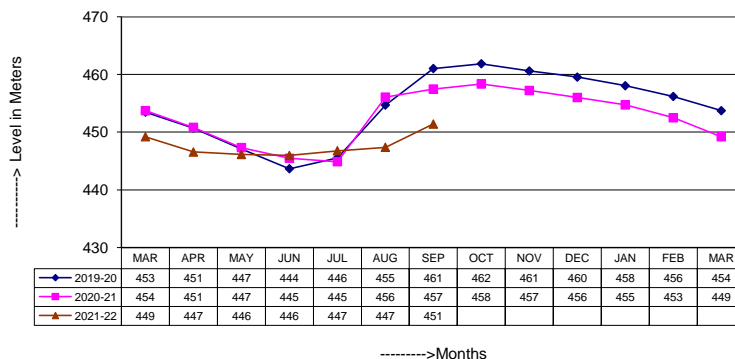
RENGALI RESERVOIR LEVEL



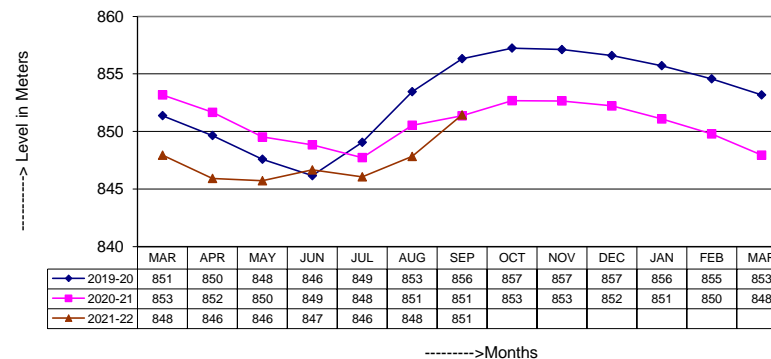
HIRAKUD RESERVOIR LEVEL



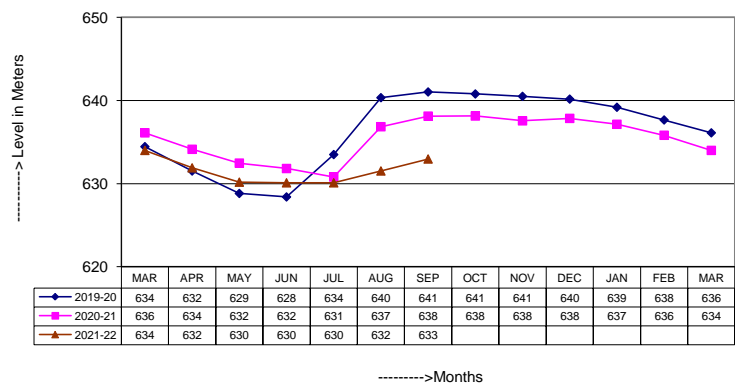
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

