

सत्यमेव जयते

Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

अगस्त - 2021

AUGUST-2021



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for Aug - 2021

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **Aug, 2021** was **24157 MW** which is 8.85% more than the **Aug, 2020** (22192 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 **Aug, 2021** was **501.37 MU** excluding export, which is 11.99% more than the corresponding period of last year (447.69 MU).
- The **Average regional PLF of thermal units during the month is 67.78 %**, which is 8.58% more than the corresponding period of the last year (**59.20%**).

NTPC (TSTPP) registered the highest **PLF** of 95.42%, followed by CESC (Budge-Budge) 94.97% and WBPDC (Santalidih TPS) 93.98% during the month of **Aug, 2021**.

- **Maximum Net generation** was **28376 MW** against total **Effective Capacity of 39823.41 MW** (including import from Bhutan). At the time of Regional peak (**24157 MW** on 14.08.2021 at 21.00 hrs.) the generation was **27683 MW** and import from CPP was 1411 MW, Net export was 4937 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 76.92% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.22 Hz and 49.53 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.18 Hz** and **49.70 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded 418 KV at Jeerat 400 KV S/s whereas the minimum voltage recorded 389 KV at Biharsharif 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region was 8855 MW (including Nepal and Bangladesh) on 7th Aug, 2021 at 09:00 hrs.** Total net energy export during the month was **4254.26 MU (Inc.Transmission loss) MU** which corresponds to **22.94 %** of ex-bus total generation 18548.79 MU of Eastern Region.
- The import from CPPs was **1247.91 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	5584	0	2778.23
WR	1966	2552	-539.62
SR	4203	225	1356.56
NER	1167	733	158.00
BANGLADESH			514.89
NEPAL (via-CTU)			-13.81
Total			4254.26
NEPAL by Bihar(NBPDCL)			10.44

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Aug-21		AUG-2020	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	30120		30130	-10	-0.03
	HYDRO (MW)	5990	\$	5877	113	2
	DIESEL (MW)	0		0	0	0
	RES (MW)	1518		1489	0	0
	TOTAL (MW)	37627		37496	131	0.35
2)	Peak Demand (MW)	24236		22399	1837	8.20
3)	Peak Demand Met (MW)	24157		22192	1965	8.85
4)	Shortage (MW)	79		207	-128	0.00
5)	% Shortage	0.33		0.92	-0.59	0.00
6)	Average Energy Requirement Per Day (MU)	505.13		449.62	55.51	12.35
7)	Average Energy Availability Per Day (MU)	501.37		447.69	53.68	11.99
8)	Average Shortage Per Day (MU)	3.76		1.93	1.83	94.95
9)	% Shortage	0.74		0.43	0.31	73.22
10)	Net Generation for the Month					
	Thermal (MU)	14141.36		12212.10	1929.26	15.80
	Hydro (MU)	4311.07	*	4408.81	-97.74	-2.22
	RES (MU)	96.37		92.55	0.00	-
	Total (MU)	18548.79		16713.46	1835.33	10.98
11)	Generation at the Time of Max. Regional Demand Met (14-08-21 at 21.00 Hrs.)					
	Thermal (MW)	20746		17613	3133	17.79
	Hydro (MW)	6843	*	6910	-67	-0.97
	RES(MW)	94		50	44	88.50
	Total (MW)	27683		24573	3110	12.66
12)	Inter-Regional Energy Transfer					
	Export (MU)	4807.68		5277.77	-470.09	-8.91
	Import (MU)	553.42		1582.58	-1029.16	-65.03
	Net Exp.(+)/Net Imp.(-) (MU)	4254.26		3695.19	559.07	15.13
13)	Import From Captive(MU)	1247.91		859.97	387.94	45.11
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 07-08-21 at 09.00Hrs	8855		9660	-805	-8.33
	Max Import (MW) on 25-08-21 at 24.00Hrs	2552		3927	-1375	-35.00
	Max Net Export(+)/Import (-) (MW)	8721		7914	807	10.19
15)	Maximum voltage recorded	418		JEERAT	400 kv	s/s
16)	Minimum voltage recorded	389		BIHARSHARIFF	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 AUG'2021

A) Net Average Energy Per Day

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	119.45	121.55	2.10	1.73
JUVNL	30.73	32.17	1.44	4.47
DVC	64.51	64.54	0.03	0.05
ODISHA	112.29	112.35	0.06	0.05
WBSEDCL	139.64	139.82	0.18	0.13
CESC	33.18	33.19	0.02	0.05
SIKKIM	1.51	1.51	0.00	0.05
REGION	501.37	505.13	3.76	0.74

B) Peak Demand in MW:

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	6241	6679	438	6.55
JUVNL	1611	1786	175	9.80
DVC	2914	2919	4	0.14
ODISHA	5552	5575	23	0.41
WBSEDCL	7168	7182	14	0.20
CESC	1893	1893	0	0.0
SIKKIM	98	99	1	1.01
REGION	24157	24236	79	0.33

➤ DIVERSITY FACTOR : 1.05

➤ Regional Peak Demand Met on 14-8-2021 at 21.00 hrs. at 50.01 Hz.

CONSTITUENT-WISE PERFORMANCE DATA AUG-2021

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 Met (MW)	Demand Met (MW)
BSPHCL	0.00	193.72	19.79	213.51	0.00	19.61	0.00	19.61	0.00	174.11	19.79	193.90	0.00	3509.00	3702.90	119.4	6241	6267
JUVNL	69.67	108.24	0.00	177.91	0.02	13.12	0.00	13.14	69.65	95.12	0.00	164.77	41.13	746.75	952.65	30.7	1611	1628
DVC	88.43	3093.49	0.00	3181.92	0.22	228.48	0.00	228.71	88.20	2865.01	0.00	2953.21	14.25	-967.62	1999.84	64.5	2914	3227
ODISHA(OPGC+OHPC+TTPS)	593.85	875.00	56.08	1524.92	4.34	72.93	0.00	77.27	589.51	802.07	56.08	1447.65	1034.41	999.06	3481.12	112.3	5552	5672
WBPDC+WBSEDCL+DPL	181.94	2405.21	17.47	2604.61	0.00	219.10	0.00	219.10	181.94	2186.11	17.47	2385.52	158.12	1785.05	4328.69	139.6	7168	7581
CESC	0.00	537.96	0.00	537.96	0.00	41.03	0.00	41.03	0.00	496.93	0.00	496.93	0.00	531.53	1028.46	33.2	1893	1953
HEL	0.00	417.25	0.00	417.25	0.00	31.96	0.00	31.96	0.00	385.29	0.00	385.29	0.00	-385.29				
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	44.93	46.93	1.5	98	98
NTPC	0.00	5577.48	1.02	5578.50	0.00	426.96	0.00	426.96	0.00	5150.52	1.02	5151.54	0.00	-5151.54				
MPL	0.00	710.68	0.00	710.68	0.00	40.01	0.00	40.01	0.00	670.67	0.00	670.67	0.00	-670.67				
APNRL	0.00	237.28	0.00	237.28	0.00	21.75	0.00	21.75	0.00	215.53	0.00	215.53	0.00	-215.53				
GMR	0.00	394.27	0.00	394.27	0.00	27.96	0.00	27.96	0.00	366.31	0.00	366.31	0.00	-366.31				
JITPL	0.00	786.89	0.00	786.89	0.00	53.17	0.00	53.17	0.00	733.72	0.00	733.72	0.00	-733.72				
NHPC (Inc TLDP= 202.98MU)	631.14	0.00	0.00	631.14	0.00	0.00	0.00	0.00	631.14	0.00	0.00	631.14	0.00	-631.14	0.00			
CHUZACHEN HPS	87.48	0.00	0.00	87.48	0.00	0.00	0.00	0.00	87.48	0.00	0.00	87.48	0.00	-87.48	0.00			
DIKCHU HPS	77.86	0.00	0.00	77.86	0.00	0.00	0.00	0.00	77.86	0.00	0.00	77.86	0.00	-77.86	0.00			
JORHANG HPS	70.64	0.00	0.00	70.64	0.00	0.00	0.00	0.00	70.64	0.00	0.00	70.64	0.00	-70.64	0.00			
TASHIDING HPS	74.62	0.00	0.00	74.62	0.00	0.00	0.00	0.00	74.62	0.00	0.00	74.62	0.00	-74.62	0.00			
TEESTA-III HPS	939.82	0.00	0.00	939.82	0.00	0.00	0.00	0.00	939.82	0.00	0.00	939.82	0.00	-939.82	0.00			
RONGNICHU HEP	74.00	0.00	0.00	74.00	0.00	0.00	0.00	0.00	74.00	0.00	0.00	74.00	0.00	-74.00	0.00			
CHPC(Birpara Receipt)	288.43	0.00	0.00	288.43	0.00	0.00	0.00	0.00	288.43	0.00	0.00	288.43	0.00	-288.43	0.00			
KHPS	10.18	0.00	0.00	10.18	0.00	0.00	0.00	0.00	10.18	0.00	0.00	10.18	0.00	-10.18	0.00			
THPS	563.69	0.00	0.00	563.69	0.00	0.00	0.00	0.00	563.69	0.00	0.00	563.69	0.00	-563.69	0.00			
DAGACHU HPS	78.93	0.00	0.00	78.93	0.00	0.00	0.00	0.00	78.93	0.00	0.00	78.93	0.00	-78.93	0.00			
Mangdechhu HEP	484.98	0.00	0.00	484.98	0.00	0.00	0.00	0.00	484.98	0.00	0.00	484.98	0.00	-484.98	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														1.89	1.89			
Total	4315.64	15337.47	96.35	19749.46	4.58	1196.09	0.00	1200.67	4311.06	14141.38	96.35	18548.80	1247.91	-4254.23	15542.48	501.4	24157	25190

3A

18548.80

15542.48

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	Requirement	Shortage	Shortage	Avg. Freq.	Requirement Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(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	-	-	-	-	-
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	Demand	Shortage	Shortage	Avg. Freq.	Demand Met	Demand	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(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	-	-	-	-	-
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 AUG -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	5.98	4.20	46.72	35.03
	Thermal	Barauni (U# 8)	250.00	250.00	177.05	161.63	709.39	625.10
		Barauni (U# 9)	0.00	0.00	0.00	0.00	40.73	40.73
		(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	10.69	8.28	227.14
	RES	Thermal Total	690.00	680.00	193.72	174.11	1023.98	891.94
			354.91	354.91	19.79	19.79	89.99	89.99
		Total BIHAR	1044.91	1034.91	213.51	193.90	1113.97	981.93
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	108.24	95.12	589.49	517.67
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	69.67	69.65	142.77	142.74
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total	190.41	190.41	69.67	69.65	142.77	142.74
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.44	0.00	-3.98
		Chandrapura(U7 # 8)	500.00	500.00	295.89	265.30	1590.47	1434.90
		Durgapur(4)	210.00	210.00	0.00	-0.51	49.57	39.16
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	615.68	547.24	3292.51	2946.52
		Mezia(U # 7,8)	1000.00	1000.00	464.08	435.66	2773.00	2612.29
		Bokaro-A(1)	500.00	500.00	302.94	285.55	1437.51	1356.10
		Durgapur STPS (U#1,2)	1000.00	1000.00	499.81	472.01	2583.84	2432.28
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	560.18	525.68	2417.53	2263.92
		Koderma STPS (U#1,2)	1000.00	1000.00	354.91	334.50	2831.77	2676.65
		Total Thermal	6750.00	6750.00	3093.49	2865.01	16976.20	15757.83
	Hydro	Maithon (U#1,2,3)	63.20	63.20	40.02	39.98	117.92	117.75
		Panchet (U#1,2)	80.00	80.00	45.66	45.48	126.01	125.36
		Tilaya (U#1,2)	4.00	4.00	2.75	2.7	6.91	6.9
		Hydro Total	147.20	147.20	88.43	88.20	250.85	249.98
			Total DVC	6897.20	6897.20	3181.92	2953.21	17227.04
WEST BENGAL								
WBPCL	Thermal	Bandel TPS	380.00	335.00	146.43	131.42	722.02	651.17
		Santalidih TPS(U#5&6)	500.00	500.00	349.60	321.03	1703.66	1561.60
		Kolaghat TPS	1260.00	1260.00	304.34	269.24	1564.32	1388.04
		Bakreswar TPP	1050.00	1050.00	639.17	582.15	3422.54	3120.80
		Sagardighi TPP	1600.00	1600.00	799.29	732.36	4631.55	4260.01
		DPPS (300+250 *)	550.00	550.00	166.39	149.92	1036.03	930.86
		Thermal Total	5340.00	5295.00	2405.21	2186.11	13080.12	11912.47
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	28.72	28.72	101.17	101.17
		Ramam (4x12.73)	51.00	51.00	36.84	36.84	125.84	125.84
		Teesta C.F. (3x3x7.5)	67.50	67.50	11.20	11.20	35.08	35.08
		Purulia PSS (4x225)	900.00	900.00	105.18	105.18	463.37	463.37
		Total Hydro	1053.50	1053.50	181.94	181.94	725.46	725.46
		RES	500.76	500.76	17.48	17.48	75.40	75.40
		➤	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 AUG -2021

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	Net Energy Generation	Cummulative Gross Energy Generation upto Current Month	Cummulative Net Energy Generation upto Current Month	
			(in MW)	(in MW)	in MU	in MU	(2021-22) in MU	(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	8.01	7.26	58.34	53.00	
		Budge-Budge (3x250)	750.00	750.00	529.95	489.66	2542.27	2348.98	
		Total CESC	1125.00	1125.00	537.96	496.93	2600.60	2401.98	
HEL	Thermal	HEL	600.00	600.00	417.25	385.29	1988.35	1836.32	
		Total West Bengal	8619.26	8574.26	3559.83	3267.74	18469.94	16951.64	
OPGC	Thermal	IB TPS	420.00	420.00	248.61	218.02	1103.48	969.02	
		IB TPS U#3(660 MW)	660.00	660.00	232.44	216.72	1276.62	1187.15	
		IB TPS U#4(660 MW)	660.00	660.00	393.95	367.31	1623.25	1510.82	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	108.46	108.17	289.89	288.85	
		Hirakud-II (Chiplima)	72.00	72.00	31.61	31.50	86.05	85.61	
		Balimela (6x60+2x75)	510.00	510.00	106.85	106.27	446.93	442.61	
		Rengali (5x50)	250.00	250.00	140.25	140.12	403.35	402.76	
		Upper Kolab (4x80)	320.00	320.00	39.92	39.69	179.16	177.95	
		Indravati HPS (4x150)	600.00	600.00	138.74	135.73	665.27	651.10	
		Mckd.(Odisha drawal)	57.38	57.38	28.03	28.03	125.90	125.90	
		Total Hydro	2084.88	2084.88	593.85	589.51	2196.55	2174.78	
		RES	539.57	539.57	56.08	56.08	276.40	276.40	
		Total Odisha	4364.45	4364.45	1524.92	1447.63	6476.30	6118.16	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	8.00	8.00	
NTPC		MTPS Stg-II	390.00	390.00	155.075	137.27	1020.20	911.86	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	566.30	514.00	3478.05	3171.76	
		FSTPP (U# 6)	500.00	500.00	244.21	222.14	1364.29	1256.28	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1258.96	1163.58	7075.87	6574.63	
		TSTPP (2x500)	1000.00	1000.00	709.90	658.11	3109.52	2873.66	
		BARH STPS II (2X660)	1320.00	1320.00	789.15	743.99	3539.91	3326.30	
		BARH STPS I (1X660)			99.12	82.90	122.50	96.67	
		BRBCL # 1,2,3(3X250 MW)	750	750	387.07	354.10	2095.47	1922.06	
		NSTPS U# I&2	1320.00	1320.00	733.72	686.22	2420.55	2284.39	
		NSTPS U#2 infirm			0.00	0.00	202.55	175.72	
		DSTPP #1	800.00	800.00	585.63	549.63	2568.28	2409.88	
		DSTPP #2			48.35	38.57	290.27	233.37	
		Total NTPC	10020.00	10020.00	5577.49	5150.52	27287.45	25227.65	
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	40.66	40.66	158.08	158.08	
		Teesta (3x170)	510.00	510.00	387.50	387.50	1439.14	1439.14	
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	202.98	202.98	758.24	758.24	
		Total NHPC	862.00	862.00	631.14	631.14	2355.45	2355.45	
		MPL (U#1&2)	1050.00	1050.00	710.68	670.67	3419.95	3223.85	
		APNRL (U#1,2)	540.00	540.00	237.28	215.53	1505.25	1368.22	
		GMR (2x350)	700.00	700.00	394.27	366.31	1989.89	1849.44	
		JITPL (2X600)	1200.00	1200.00	786.89	733.72	3707.44	3463.55	
		CHUZACHEN** (2x55)	110.00	110.00	87.48	87.48	306.17	306.17	
		JORETHANG (2x48)	96.00	96.00	70.64	70.64	229.29	229.29	
		TEESTA URJA St III (6x200)	1200.00	1200.00	939.82	939.82	3616.95	3616.95	
		Tashilding (2x48.5)	97.00	97.00	74.62	74.62	227.06	227.06	
		DICKCHU (2x48)	96.00	96.00	77.86	77.86	308.38	308.38	
		RONGNICHU HEP (2x56.5)			74.00	74.00	145.87	145.87	
		TALCHER SOLAR	10.00	10.00	1.02	1.02	5.48	5.48	
		Total Thermal (E.R)	30175.00	30120.00	15337.48	14141.36	78172.07	72117.91	
		Total Hydro (E.R)	5989.58	5989.58	2889.44	2884.86	10504.81	10482.12	
		Total RES	1517.83	1517.83	96.37	96.37	455.28	455.28	
	EASTERN REGIONAL		TOTAL (E.R)	37682.41	37627.41	18323.29	17122.58	89132.15	83055.31
	BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	288.43	288.43	1020.23	1020.23
Hydro		Kurichu (4x15)	60.00	60.00	10.18	10.18	31.30	31.30	
Hydro		TALA (6x170)	1020.00	1020.00	563.69	563.69	1699.28	1699.28	
Hydro		DAGACHU (2x63)	126.00	126.00	78.93	78.93	245.87	245.87	
		MANGDECHU(4x180)	720.00	720.00	484.98	484.98	1662.55	1662.55	
Grand Total			39968.41	39823.41	19749.49	18548.79	93791.38	87714.53	

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

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 (2021-22) in MU	Cummulative PLF upto Current Month (%)	
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	5.98	3.83	46.72	6.06	
	Thermal	Barauni (U# 8)	250.00	250.00	177.05	95.19	709.39	77.28	
		Barauni (U# 9)	0.00	0.00	0.00	0.00	40.73	0.00	
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	10.69	6.53	227.14	28.12	
	RES	Thermal Total	690.00	680.00	193.72	38.29	1023.98	39.38	
			354.91	354.91	19.79		89.99		
	Total BIHAR		1044.91	1034.91	213.51		1113.97		
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	108.24	34.64	589.49	38.22	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	69.67		142.77		
	RES		60.41	60.41	0.00		0.00		
	Total		190.41	190.41	69.67		142.77		
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	295.89	79.54	1590.47	86.63	
		Durgapur(4)	210.00	210.00	0.00	0.00	49.57	6.43	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	615.68	61.76	3292.51	66.91	
		Mezia(U # 7,8)	1000.00	1000.00	464.08	62.38	2773.00	75.52	
		Bokaro-A(1)	500.00	500.00	302.94	81.44	1437.51	78.30	
		Durgapur STPS (U#1,2)	1000.00	1000.00	499.81	67.18	2583.84	70.37	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	560.18	62.74	2417.53	54.86	
		Koderma STPS (U#1,2)	1000.00	1000.00	354.91	47.70	2831.77	77.12	
	Total Thermal		6750.00	6750.00	3093.49	61.60	16976.20	68.49	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	40.02		117.92		
		Panchet (U#1,2)	80.00	80.00	45.66		126.01		
		Tilaya (U#1,2)	4.00	4.00	2.75		6.91		
		Hydro Total	147.20	147.20	88.43		250.85		
		Total DVC		6897.20	6897.20	3181.92		17227.04	
WEST BENGAL									
WBPDCL	Thermal	Bandel TPS	380.00	335.00	146.43	58.75	722.02	58.70	
		Santalidih TPS(U#5&6)	500.00	500.00	349.60	93.98	1703.66	92.79	
		Kolaghat TPS	1260.00	1260.00	304.34	32.46	1564.32	33.81	
		Bakreswar TPP	1050.00	1050.00	639.17	81.82	3422.54	88.77	
		Sagardighi TPP	1600.00	1600.00	799.29	67.14	4631.55	78.83	
		DPPS (300+250 *)	550.00	550.00	166.39	40.66	1036.03	51.30	
		Thermal Total	5340.00	5295.00	2405.21	61.05	13080.12	67.27	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	28.72		101.17		
		Ramam (4x12.73)	51.00	51.00	36.84		125.84		
		Teesta C.F. (3x3x7.5)	67.50	67.50	11.20		35.08		
		Purulia PSS (4x225)	900.00	900.00	105.18		463.37		
		Total Hydro	1053.50	1053.50	181.94		725.46		
		RES	500.76	500.76	17.48		75.40		
	DE- COMM SSIONED	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.							
COMMISS- IONED	CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA.								
	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 AUG' 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	8.01	7.97	58.34	11.77
		Budge-Budge (3x250)	750.00	750.00	529.95	94.97	2542.27	92.31
		Total CESC	1125.00	1125.00	537.96	64.27	2600.60	62.95
HEL	Thermal		600.00	600.00	417.25	93.47	1988.35	90.25
		Total West Bengal	8619.26	8574.26	3559.83		18469.94	
OPGC	Thermal	IB TPS	420.00	420.00	248.61	79.56	1103.48	71.55
		IB TPS U#3(660 MW)	660.00	660.00	232.44	47.34	1276.62	52.68
		IB TPS U#4(660 MW)	660.00	660.00	393.95	80.23	1623.25	66.98
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	108.46		289.89	
		Hirakud-II (Chiplima)	72.00	72.00	31.61		86.05	
		Balimela (6x60+2x75)	510.00	510.00	106.85		446.93	
		Rengali (5x50)	250.00	250.00	140.25		403.35	
		Upper Kolab (4x80)	320.00	320.00	39.92		179.16	
		Indravati HPS (4x150)	600.00	600.00	138.74		665.27	
		Mckd.(Odisha drawal)	57.38	57.38	28.03		125.90	
		Total Hydro	2084.88	2084.88	593.85		2196.55	
		RES	539.57	539.57	56.08		276.40	
		Total Odisha	4364.45	4364.45	1524.92		6476.30	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		8.00	
NTPC		MTPS Stg-II	390	390	155.075	53.44	1020.20	71.24
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	566.30	47.57	3478.05	59.20
		FSTPP (U# 6)	500.00	500.00	244.21	65.65	1364.29	74.31
		KhSTPP (4x210+3x500)	2340.00	2340.00	1258.96	72.31	7075.87	82.35
		TSTPP (2x500)	1000.00	1000.00	709.90	95.42	3109.52	84.68
		BARH STPS II (2X660)	1320.00	1320.00	789.15	80.35	3539.91	73.03
		BARH STPS I (1X660)			99.12		122.50	
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	387.07	69.37	2095.47	76.09
		NSTPS U# I&2	1320.00	1320.00	733.72	74.71	2420.55	79.18
		NSTPS U#2 infirm			0.00		202.55	
		DSTPP #1	800.00	800.00	585.63	98.39	2568.28	87.43
		Total NTPC	10020.00	10020.00	5577.49	74.82	27287.45	76.20
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	40.66		158.08	
		Teesta (3x170)	510.00	510.00	387.50		1439.14	
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	202.98		758.24	
		Total NHPC	862.00	862.00	631.14		2355.45	
	Thermal	MPL (U#1&2)	1050.00	1050.00	710.68	90.97	3419.95	88.70
		APNRL (U#1,2)	540.00	540.00	237.28	59.06	1505.25	75.91
		GMR (2x350)	700.00	700.00	394.27	75.71	1989.89	77.42
		JITPL (2X600)	1200.00	1200.00	786.89	88.14	3707.44	84.14
		CHUZACHEN** (2x55)	110.00	110.00	87.48		306.17	
		JORETHANG (2x48)	96.00	96.00	70.64		229.29	
		TEESTA URJA St III (6x200)	1200.00	1200.00	939.82		3616.95	
		Tashilding (2x48.5)	97.00	97.00	74.62		227.06	
		DICKCHU (2x48)	96.00	96.00	77.86		308.38	
		RONGNICHU HEP (2x56.5)			74.00		145.87	
		TALCHER SOLAR	10.00	10.00	1.02		5.48	
		Total Thermal (E.R)	30175.00	30120.00	15337.48	67.78	78172.07	71.24
	EASTERN REGIONAL	Total Hydro (E.R)	5989.58	5989.58	2889.44		10504.81	
		Total RES	1517.83	1517.83	96.37		455.28	
		TOTAL (E.R)	37682.41	37627.41	18323.29		89132.15	
BHUTAN	Hydro	CHPC(4x90)	360.00	360.00	270.00	288.43	1020.23	
	Hydro	Kurichu (4x15)	60.00	60.00	10.18		31.30	
	Hydro	TALA (6x170)	1020.00	1020.00	563.69		1699.28	
	Hydro	DAGACHU (2x63)	126.00	126.00	78.93		245.87	
		MANGDECHU(4x180)	720.00	720.00	484.98		1662.55	
Grand Total			39968.41	39823.41	19749.49		93791.38	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF AUG'2021 (14-8-2021)

Date	14-Aug-21					
Time	21.00	Hrs.				
Frequency	50.01	Hz.				
						(All Fig. in MW)
	Installed	Effective				Net Gen
System/State	Capacity	Capacity	Hydro	Thermal	RES	Total
BSPHCL	1045	1035	0	305	0	305
JUVNL	610	610	110	122	0	232
DVC	6897	6897	127	4065	0	4192
ODISHA	4364	4364	1368	1006	94	2469
WBSEDCL	6344	6299	588	3501	0	4089
TLDP	292	292	283	0	0	283
HEL HALDIA	600	600	0	544	0	544
CESC	1125	1125	0	687	0	687
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	10020	10020	0	7937	0	7937
NHPC	570	570	579	0	0	579
CHUKHA	360	270	383	0	0	383
KURICHU	60	60	74	0	0	74
TALA	1020	1020	786	0	0	786
MPL	1050	1050	0	955	0	955
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	248	0	248
Kamalganga (GMR)	700	700	0	319	0	319
JITPL	1200	1200	0	1057	0	1057
RONGNICHU HEP (2x56.5)	113	113	103	0	0	103
Chuzachen	110	110	119	0	0	119
Jorethang	96	96	99	0	0	99
TEESTA URJA St III	1200	1200	1302	0	0	1302
Tashilding	97	97	106	0	0	106
DICKCHU	96	96	105	0	0	105
<u>Daghachu</u>	126	126	100	0	0	100
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	610	0	0	610
<u>Total</u>	39968	39823	6843	20746	94	27683
Import From Captive:						1411
Export To:						
NER						533
SR						1289
WR						-1473
NR						3865
Bangladesh						710
Nepal						13
Total						4937
➤ nal Net Peak Demand Met (MW) :						24157

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of AUG'2021 (14-8-2021)

(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	4562	20713	25275	1414	2088	5767	23009	-4	0	23010
2	4207	20436	24643	1392	2096	5494	22638	-26	2	22640
3	3941	20398	24339	1389	2094	5640	22182	-33	2	22183
4	3783	20273	24057	1418	2086	5711	21850	-21	2	21852
5	3731	19721	23452	1434	2075	5434	21527	-11	2	21529
6	3345	19748	23093	1413	2062	5684	20884	-20	431	21295
7	2494	20108	22602	1443	2047	5728	20364	-14	4	20368
8	2432	19975	22407	1451	2058	5815	20101	-37	192	20257
9	2323	19381	21704	1414	2066	5359	19825	-59	28	19853
10	2294	19519	21813	1415	2054	5049	20233	-37	20	20253
11	2230	19269	21499	1444	2071	4980	20034	-23	8	20042
12	2335	18885	21220	1417	2081	4507	20212	28	270	20510
13	2170	18829	20999	1463	2088	4267	20282	35	3	20321
14	2242	18940	21182	1431	2088	4173	20528	-13	1	20528
15	2301	19502	21803	1425	2113	4541	20800	7	0	20807
16	2494	19420	21914	1414	2127	4938	20516	5	0	20522
17	2159	19614	21773	1400	2083	5479	19777	9	356	20142
18	2226	19457	21683	1422	2065	5750	19420	3	651	20075
19	3429	20031	23460	1413	2044	4891	22027	-23	596	22600
20	4627	20806	25433	1440	2044	5377	23538	25	439	24002
21	4880	20746	25626	1411	2057	4937	24157	-4	83	24236
22	4953	20774	25727	1484	2069	5516	23764	-21	0	23764
23	4904	20649	25554	1461	2089	5127	23978	-4	0	23978
24	4798	20518	25316	1455	2105	5150	23725	46	0	23771

Hourly Load Generation Data of ER On Regional Lean Day During The Month of AUG'2021 (29-8-2021)

(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	4073	19229	23301	1623	2256	5929	21251	30	180	21461
2	3749	19067	22815	1619	2258	5987	20704	-2	3	20705
3	3723	19061	22783	1617	2260	6226	20434	14	3	20451
4	3794	18943	22737	1612	2258	6530	20078	2	3	20082
5	3707	18817	22524	1610	2256	6529	19861	-2	3	19862
6	3749	18638	22387	1610	2241	6744	19494	-9	3	19497
7	3848	18531	22379	1587	2219	7171	19013	12	283	19308
8	3803	18542	22345	1637	2210	7354	18837	2	160	18999
9	3785	18383	22169	1591	2216	7434	18541	-15	779	19305
10	3708	18520	22227	1569	2231	7389	18639	-13	376	19002
11	3645	18573	22218	1560	2240	7402	18616	0	304	18920
12	3591	18576	22167	1576	2233	7489	18486	2	168	18656
13	3454	18646	22100	1526	2238	7682	18183	-13	166	18336
14	3511	18662	22174	1567	2246	8087	17899	3	159	18062
15	3645	18553	22198	1615	2250	8207	17856	-5	0	17856
16	3724	18407	22131	1569	2268	8088	17880	-22	284	18142
17	3448	18494	21942	1521	2262	8211	17514	-20	0	17514
18	3465	18622	22088	1511	2255	8228	17626	-2	0	17626
19	4415	19258	23673	1487	2230	6911	20480	-7	193	20666
20	4938	20098	25036	1510	2242	7023	21764	2	193	21959
21	5031	20047	25078	1460	2265	6822	21981	-15	562	22527
22	4727	20016	24743	1502	2285	6814	21715	-29	42	21728
23	4932	19289	24220	1514	2297	6913	21118	-9	99	21208
24	4638	19109	23747	1541	2303	6817	20774	-18	98	20854

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

FOR THE MONTH OF AUG'2021

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 63.25 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 44.14 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 3.51 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-21

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		MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	TO	TO	TO	TO	TO	TO	<49.9	TO	TO		HZ		HZ		HZ		HZ	
01-Aug	49.97	50.02	50.03	49.96	49.99	50.00	4.10	75.50	20.40	75.50	50.22	13.06:20	49.82	18.54:50	50.18	0:00	49.90	0:00
02-Aug	49.99	49.98	49.97	49.93	50.01	49.97	10.70	82.10	7.20	82.10	50.12	22.01:00	49.68	19.07:20	50.07	0:00	49.73	0:00
03-Aug	49.96	49.98	49.98	49.90	49.99	49.96	16.50	72.90	10.60	72.90	50.16	18.03:00	49.65	20.39:40	50.06	0:00	49.73	0:00
04-Aug	49.98	50.00	50.01	49.96	49.92	49.98	8.60	77.80	13.60	77.80	50.18	13.01:50	49.70	20.39:40	50.09	0:00	49.79	0:00
05-Aug	49.97	49.99	50.00	49.96	50.00	49.98	6.70	80.60	12.80	80.60	50.19	07.57:00	49.77	19.46:10	50.14	0:00	49.86	0:00
06-Aug	50.01	49.99	49.98	49.96	49.87	49.97	13.20	71.90	14.80	71.90	50.15	18.08:40	49.65	19.13:50	50.11	0:00	49.79	0:00
07-Aug	49.98	49.97	50.00	49.93	49.95	49.97	12.40	77.30	10.30	77.30	50.14	13.13:00	49.73	19.24:00	50.11	0:00	49.77	0:00
08-Aug	50.01	50.01	50.04	50.02	50.02	50.02	1.00	67.40	31.60	67.40	50.17	15.20:30	49.83	09.10:00	50.11	0:00	49.93	0:00
09-Aug	50.02	50.02	49.99	50.03	50.03	50.01	1.60	72.60	25.80	72.60	50.13	18:03:20	49.81	12:50:10	50.08	0:00	49.89	0:00
10-Aug	50.01	49.98	49.99	50.00	50.00	50.00	2.00	85.90	12.10	85.90	50.11	16:01:50	49.83	06:22:10	50.07	0:00	49.87	0:00
11-Aug	49.98	50.01	49.98	49.93	49.92	49.97	12.40	74.40	13.20	74.40	50.18	18:01:50	49.88	16:52:50	50.12	0:00	49.95	0:00
12-Aug	49.99	49.99	50.02	49.98	49.99	50.00	1.75	84.21	14.04	84.21	50.18	15:01:30	49.82	22:09:40	50.12	0:00	49.91	0:00
13-Aug	50.01	50.01	50.00	50.03	50.01	50.01	0.10	76.30	23.60	76.30	50.18	18:01:50	49.88	16:52:50	50.12	0:00	49.95	0:00
14-Aug	50.02	50.05	49.99	50.01	49.98	50.01	1.70	73.40	24.90	73.40	50.19	08:02:30	49.81	11:46:40	50.13	0:00	49.90	0:00
15-Aug	49.95	49.98	49.98	49.98	49.98	49.97	9.20	82.40	8.40	82.40	50.12	18:31:30	49.60	04:15:00	50.06	0:00	49.87	0:00
16-Aug	49.98	49.95	49.93	49.87	49.90	49.93	28.00	67.00	5.00	67.00	50.09	12:03:30	49.63	18:58:50	50.06	0:00	49.73	0:00
17-Aug	49.96	49.95	49.97	49.94	50.00	49.96	16.40	79.70	3.90	79.70	50.10	15:02:00	49.82	06:34:20	50.05	0:00	49.78	0:00
18-Aug	49.96	50.00	49.99	50.01	50.02	49.99	3.50	81.10	15.40	81.10	50.11	17:31:10	49.83	11:45:40	50.07	0:00	49.87	0:00
19-Aug	49.99	50.01	50.00	50.02	50.01	50.01	1.60	78.90	19.50	78.90	50.15	18:02:10	49.75	01:19:40	50.07	0:00	49.88	0:00
20-Aug	49.99	50.00	50.02	50.00	50.01	50.01	4.20	68.20	27.50	68.20	50.13	06:01:50	49.80	16:52:40	50.08	0:00	49.81	0:00
21-Aug	49.99	49.99	50.00	50.01	50.03	50.00	2.70	79.70	17.60	79.70	50.15	06:02:50	49.81	18:52:10	50.10	0:00	49.89	0:00
22-Aug	49.99	50.02	50.01	49.98	50.03	50.00	3.00	77.00	20.00	77.00	50.18	16:02:30	49.81	14:41:50	50.06	0:00	49.90	0:00
23-Aug	50.00	50.02	49.98	49.99	50.02	50.00	4.10	78.90	17.00	78.90	50.12	18:01:10	49.81	12:16:20	50.06	0:00	49.88	0:00
24-Aug	49.96	50.00	49.98	49.97	49.96	49.98	5.90	84.80	9.30	84.80	50.13	13:02:40	49.75	18:44:30	50.06	0:00	49.86	0:00
25-Aug	49.98	49.96	50.00	49.93	49.94	49.97	9.90	81.80	8.30	81.80	50.13	13:03:20	49.73	20:39:00	50.11	0:00	49.79	0:00
26-Aug	49.99	49.99	49.97	49.88	49.91	49.95	17.60	75.70	6.70	75.70	50.13	13:01:30	49.53	19:18:00	50.06	0:00	49.71	0:00
27-Aug	49.97	49.90	49.95	49.89	49.98	49.93	26.50	68.50	5.00	68.50	50.11	13:04:10	49.58	07:17:00	50.05	0:00	49.70	0:00
28-Aug	50.00	49.99	50.01	49.92	49.97	49.98	8.40	79.70	12.00	79.70	50.11	13:02:40	49.67	19:22:10	50.06	0:00	49.75	0:00
29-Aug	49.99	50.01	50.01	50.01	50.02	50.01	0.90	78.90	20.20	78.90	50.13	16:01:20	49.79	00:07:00	50.09	0:00	49.88	0:00
30-Aug	50.01	49.99	49.98	50.02	50.03	50.00	1.80	81.70	16.50	81.70	50.15	18:03:20	49.83	11:28:00	50.06	0:00	49.91	0:00
31-Aug	50.03	50.01	50.01	50.03	50.03	50.02	1.50	68.30	30.20	68.30	50.19	13:03:10	49.85	18:31:20	50.11	0:00	49.92	0:00
MAX	50.03	50.05	50.04	50.03	50.03	50.02	28.00	85.90	31.60	85.90	50.22		49.88		50.18		49.95	
MIN	49.95	49.90	49.93	49.87	49.87	49.93	0.10	67.00	3.90	67.00	50.09		49.53		50.05		49.70	
AVG	49.99	49.99	49.99	49.97	49.98	49.99	7.68	76.92	15.40	76.92	50.15		49.76		50.09		49.84	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.22 Hz at 13.06.20 Hrs.

Minimum Frequency : 49.53 Hz at 19:18 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.18 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.70 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	7.68	76.92	15.40

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	400	413	400	418	393	411	389

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	389	408	391	407	395	418	397

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
Aug-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	
			(31-08-21)	(31-08-20)		
Hirakud	192	180	188.91	191.20	184.79	01.08.21
Balimela	462	439	447.39	456.07	446.84	01.08.21
Rengali	123	109	121.34	123.64	117.53	01.08.21
Upperkolab	858	844	847.83	850.54	846.06	01.08.21
Indravati	642	625	631.53	636.85	630.28	01.08.21
Subernrekha	590	580	588.48	587.81	589.18	01.08.21

B.

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

(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	41.13
West Bengal	55.65	24.97	0	0	0	0	0	77.50	158.12
ODISHA	0	0	42.27	518.54	0.00	0.01	0	473.58	1034.41
DVC	0	0	0	0	0	0	14.25	0	14.25
TOTAL	55.65	24.97	42.27	518.54	0.00	0.01	14.25	551.08	1247.91

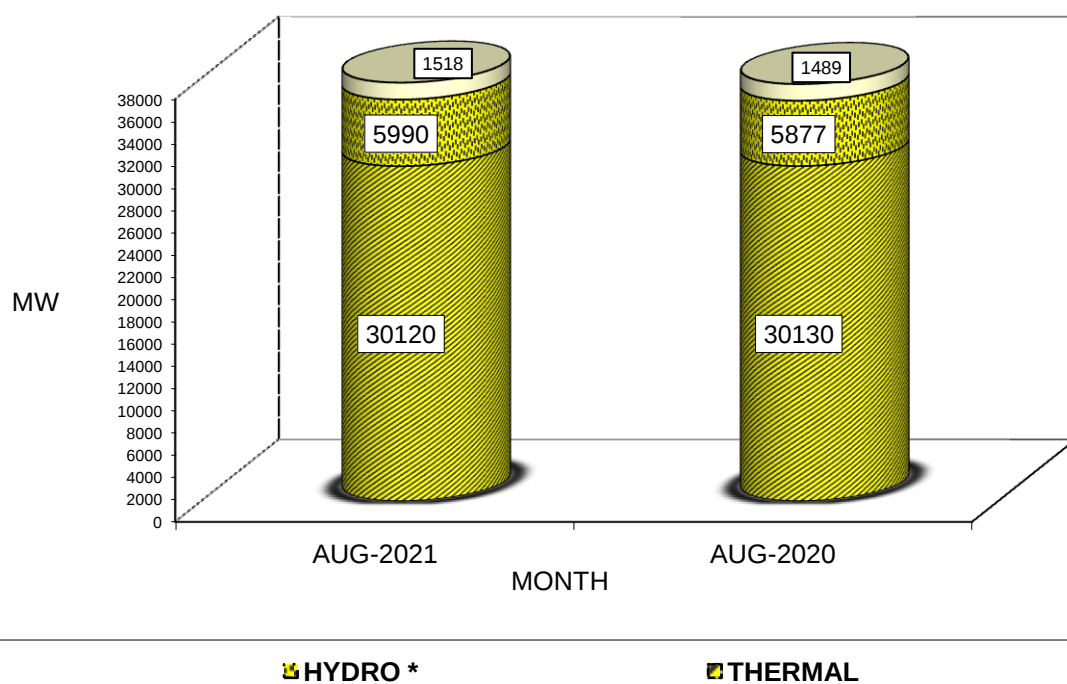
C.

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

(All figs. are in MU)

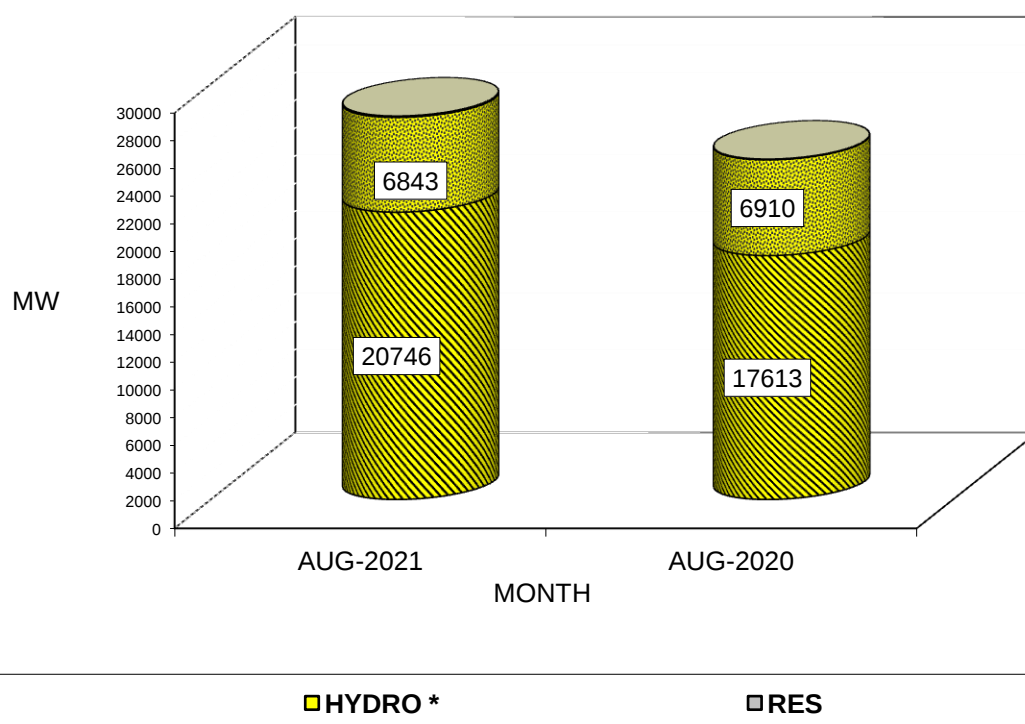
IPP	TPDDL	WBSEDCL/ WBPDCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	192.60	197.46	96.19	0.00	0	0	182.68	668.93
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
Total	192.60	197.46	96.19	0.00	0.00	0.00	182.68	668.93

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



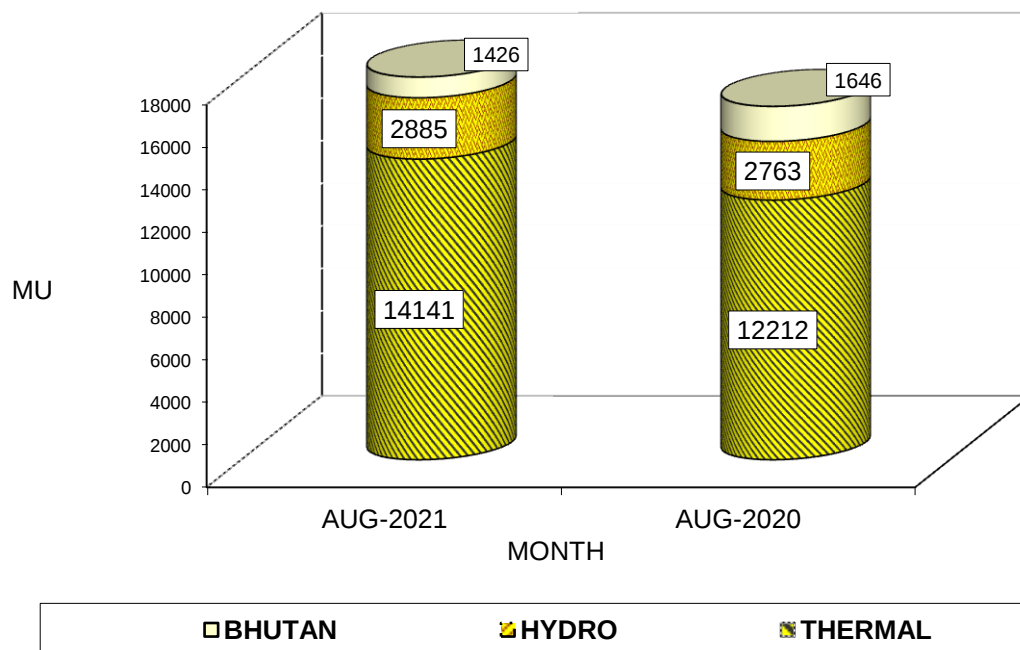
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

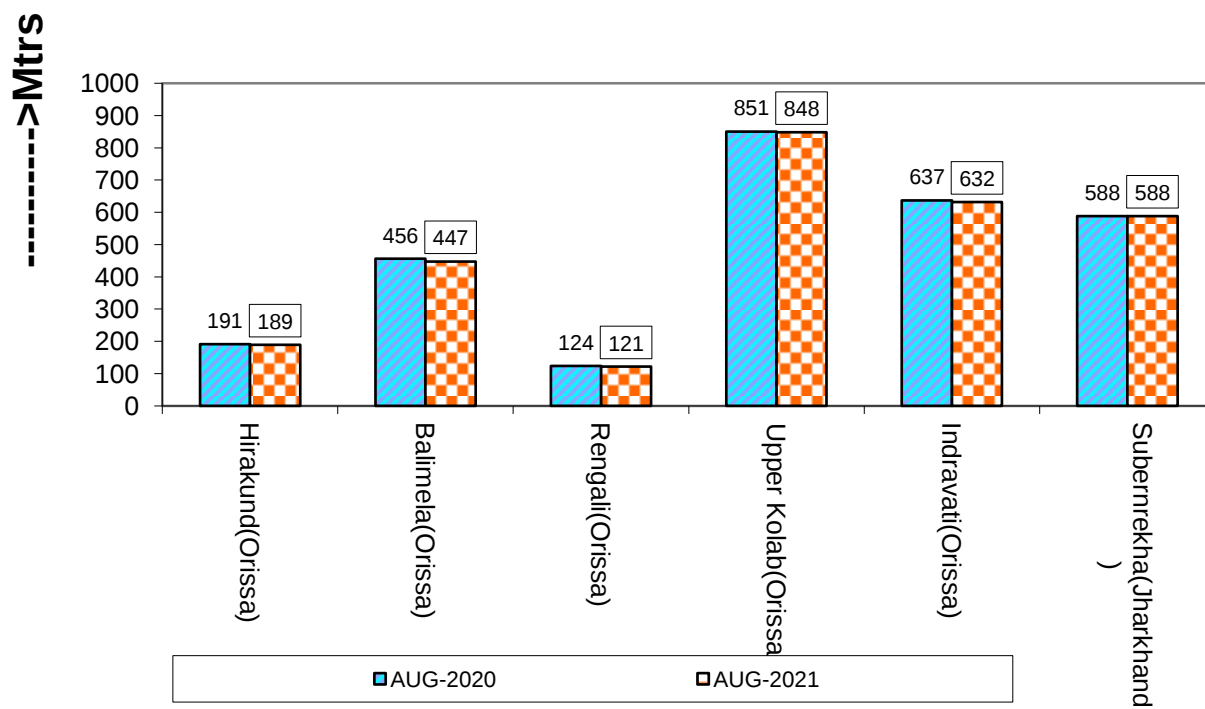


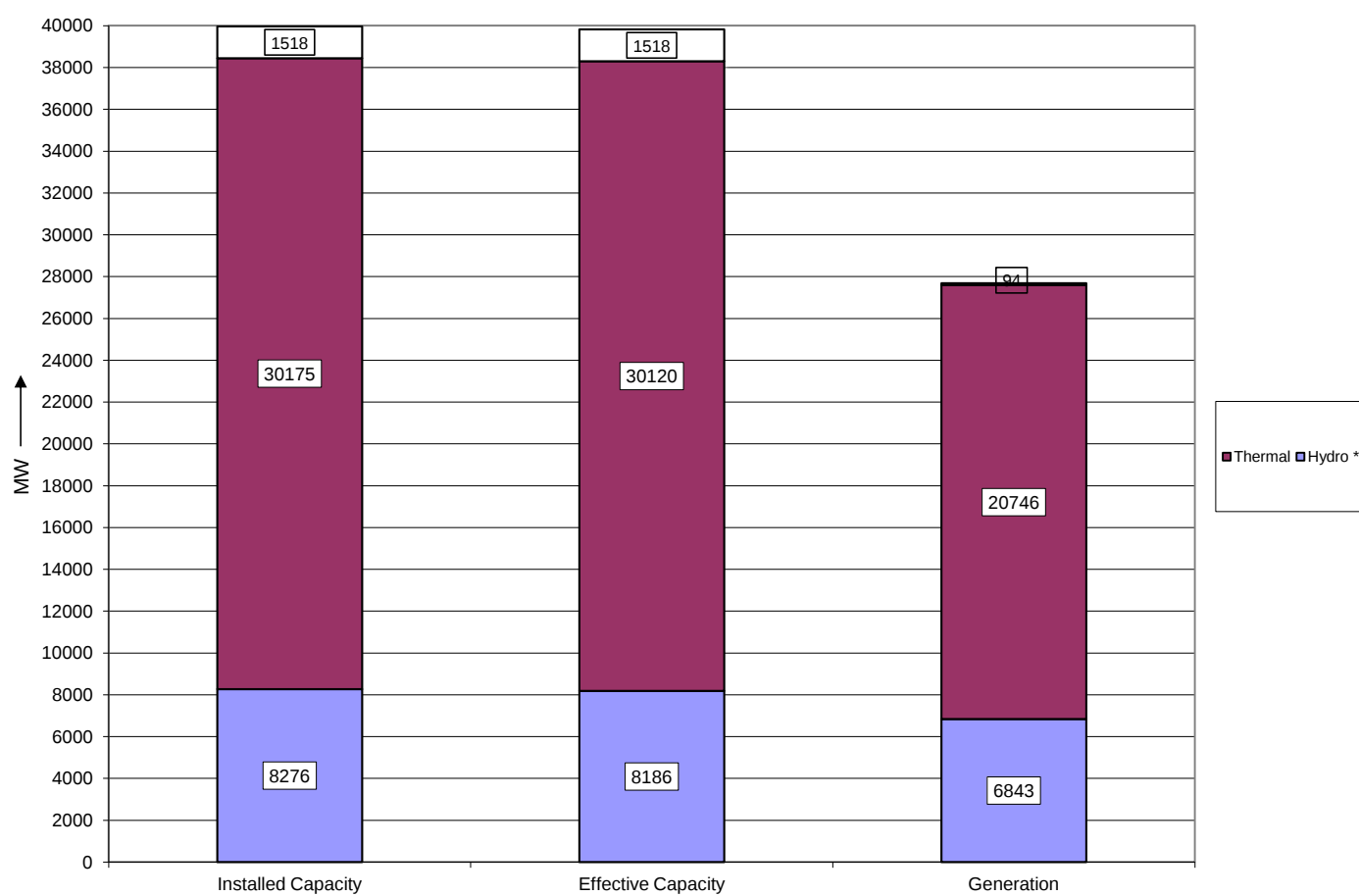
*Includes contribution from HEP of Bhutan

NET ENERGY GENERATION



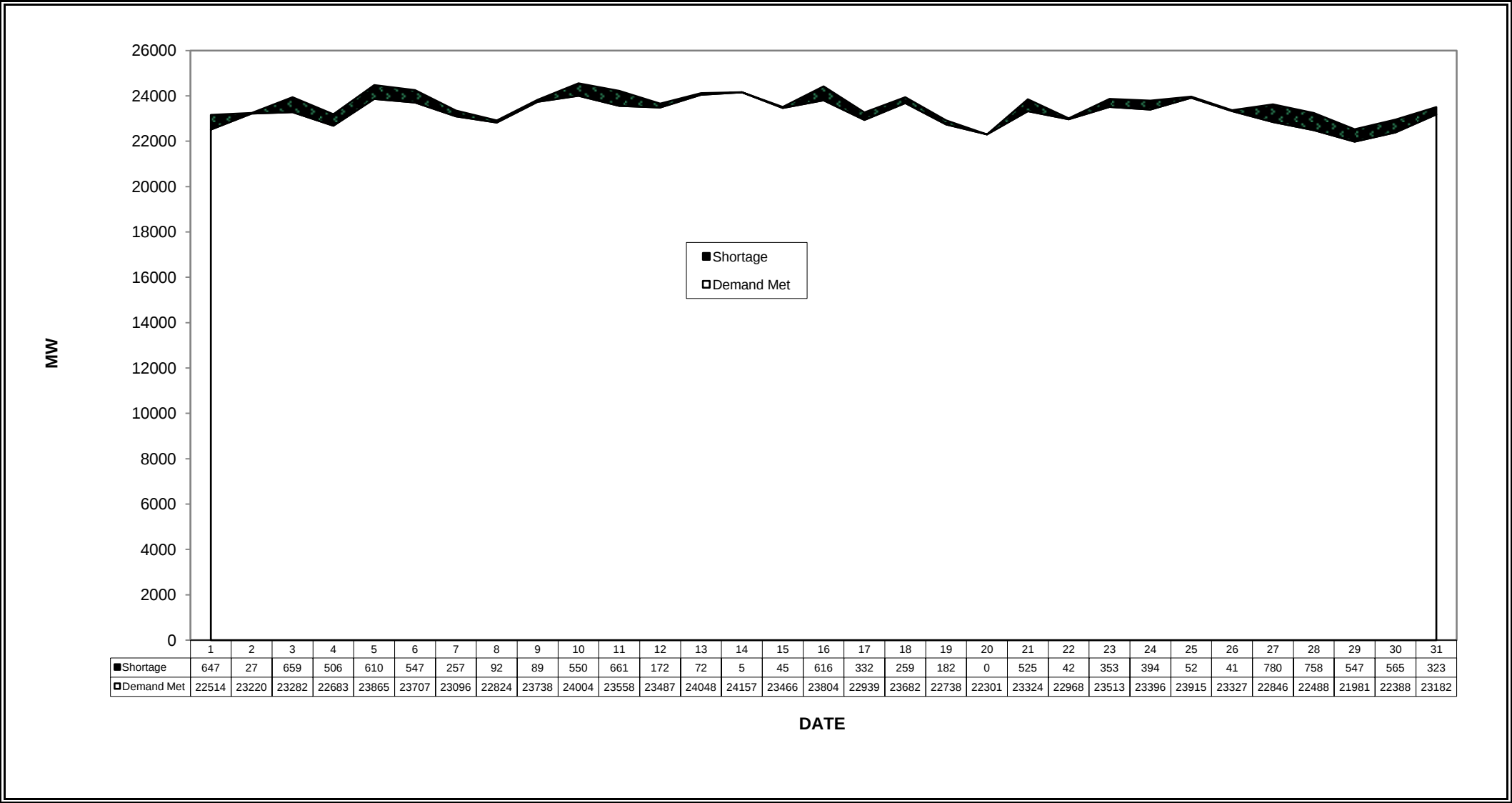
RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)



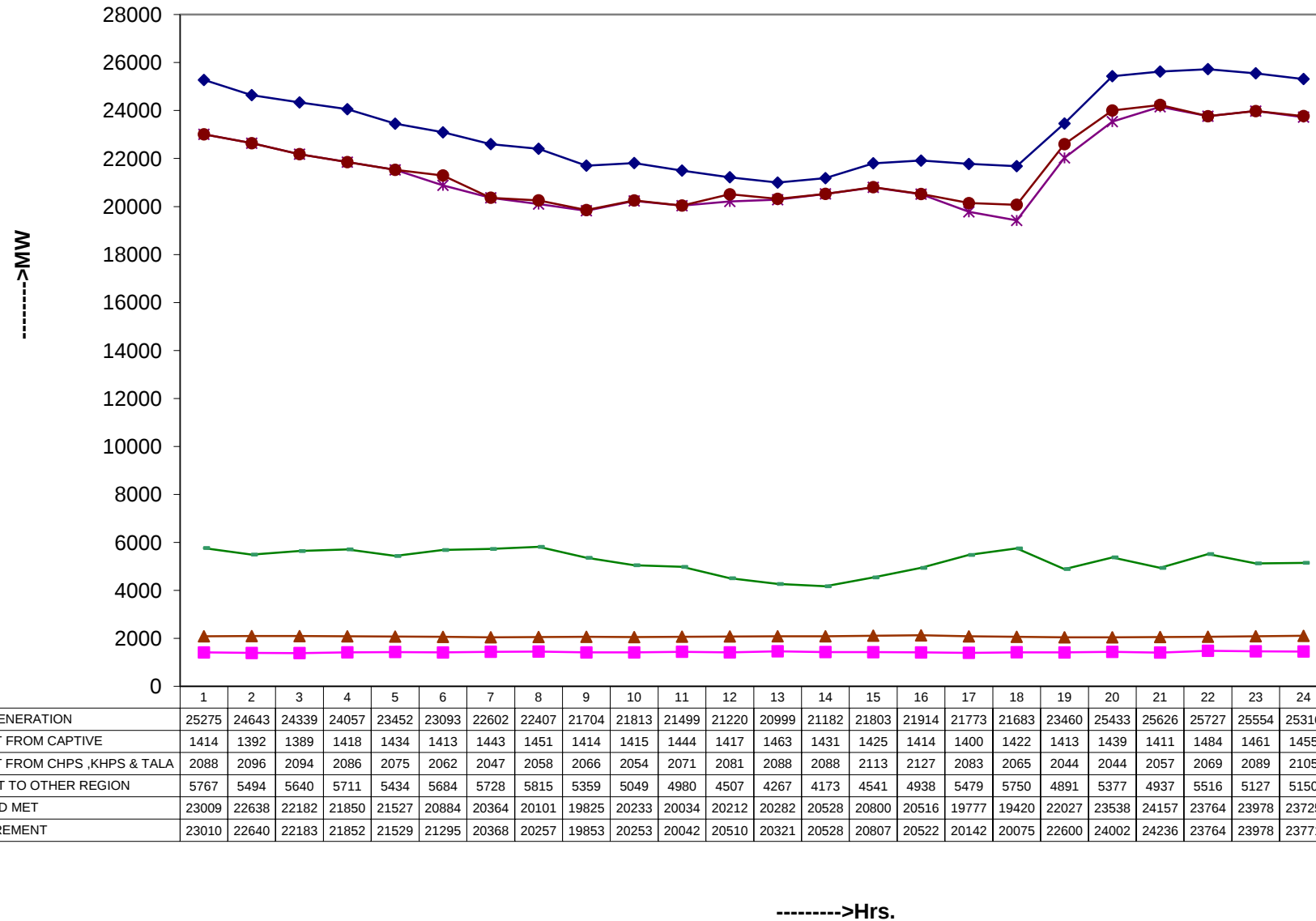
Capacity / Actual Generation Pattern of ER on Peak Day (14-8-2021) at 21.00 hrs.

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

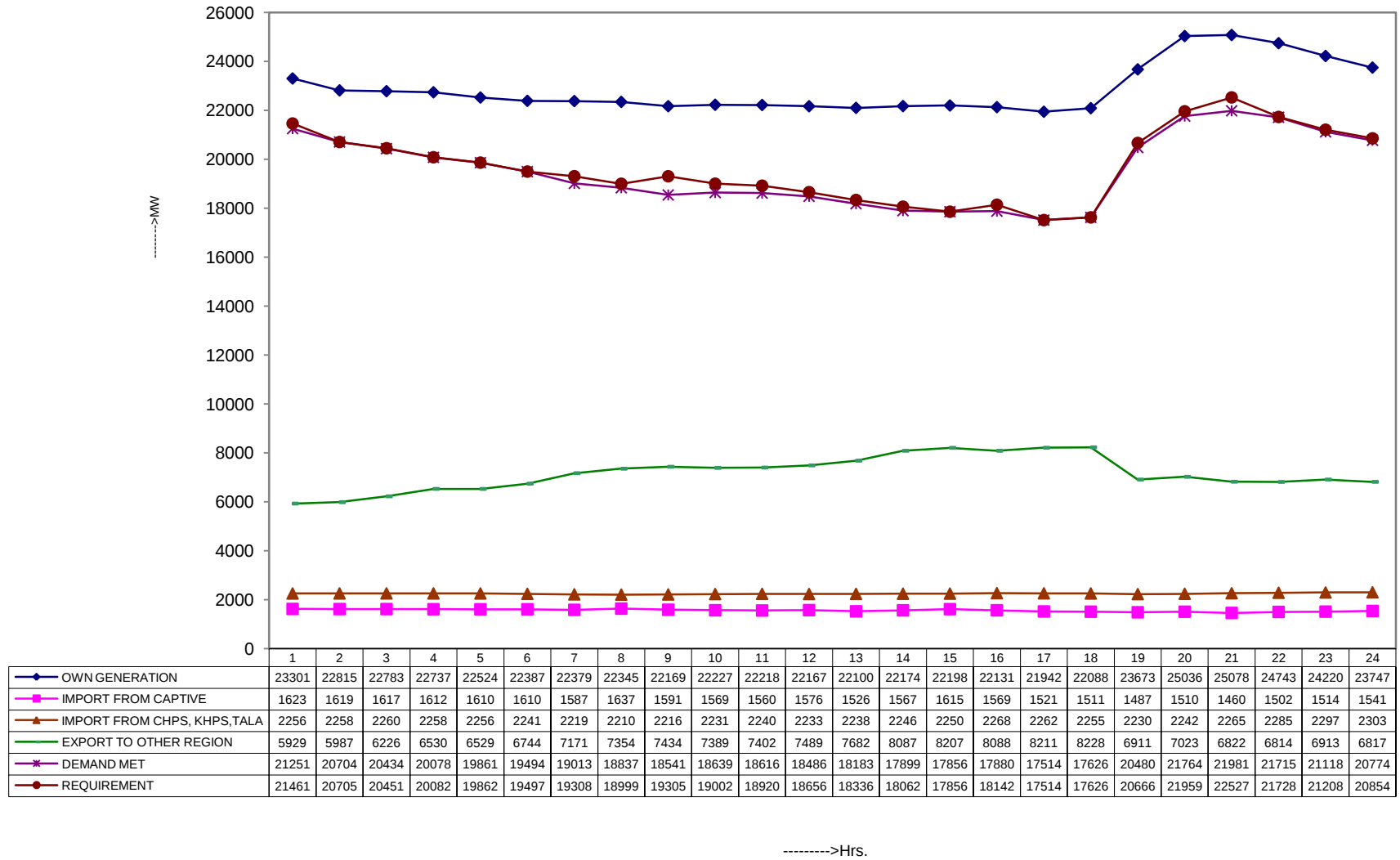
Peak Demand Met / Shortage of Eastern Region For The Month Of AUG'2021



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of AUG'2021 (14-8-2021)

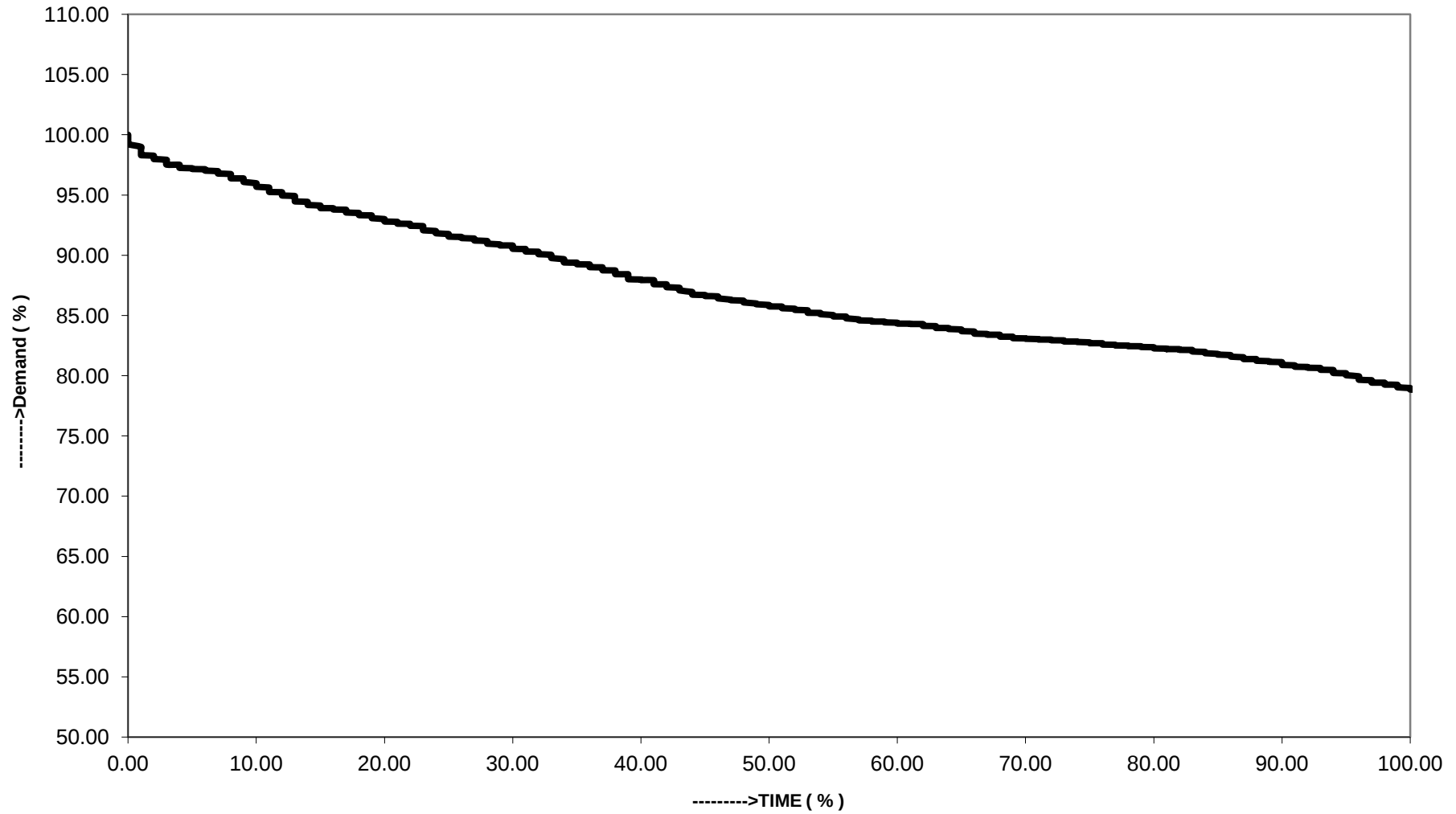


Hourly Load Generation Data of ER On Regional Lean Day During The Month of AUG'2021 (29-8-2021)



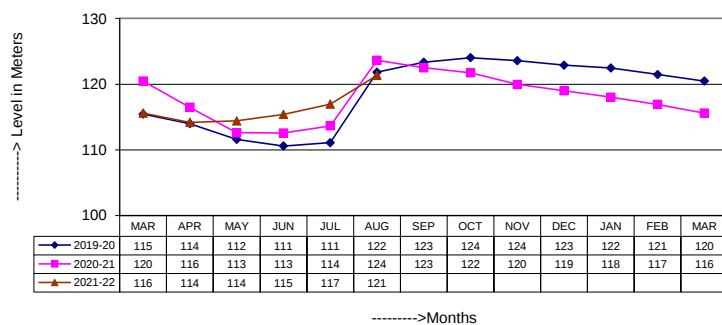
Monthly Load Duration Curve of Eastern Region for AUG-2021

Maximum Demand met : 24157 MW
Minimum Demand met: 17514 MW

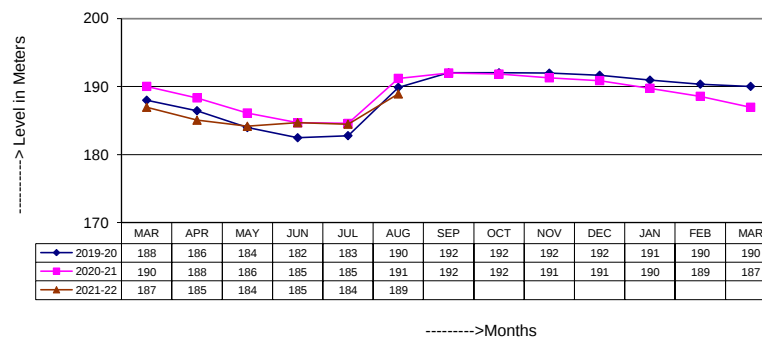


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

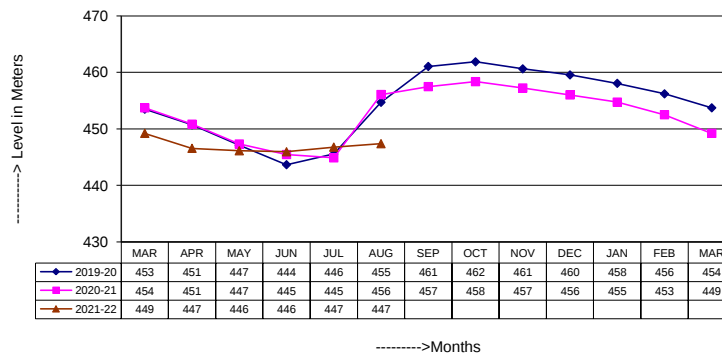
RENGALI RESERVOIR LEVEL



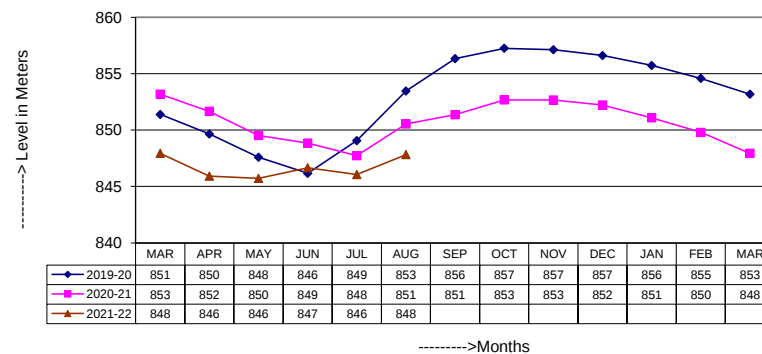
HIRAKUD RESERVOIR LEVEL



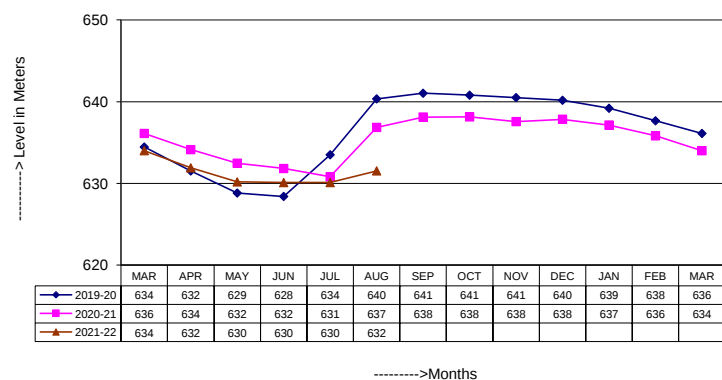
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

