

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति

75
Azadi Ka
Amrit Mahotsav



Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033

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सं/No: ERPC/MS/Reporting/MPR/2022-23/ 708

दिनांक/Date: 31.08.2022
01.09.

सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list.

विषय : जुलाई, 2022 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 July, 2022 on
ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की जुलाई, 2022 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
July, 2022 has been uploaded on ERPC website www.erpc.gov.in. This is for your
information please.

संलग्नक : यथोपरी।

Encl. – As above.

भवदीय / Yours faithfully

(Signature)
01/09/2022

(Swapan Roy)

अधीक्षक अभियंता

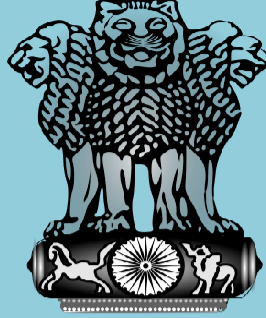
Superintending Engineer

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Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

जुलाई - 2022

JULY-2022



14, गोल्फ क्लब रोड, टोलीगंज

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INDEX

Sl. No.	Contents	Page No.
1	Highlights & Salient Features	1-2
2.	Power Supply Position of Eastern Region and Constituents wise performance	3-3A
5.	Comparative study of power supply position with previous year	4
7.	Performance vis-à-vis Energy Generation from Power Stations	5-6
8.	Plant Load Factor (PLF) of Thermal Power Stations	7-8
9.	Power Scenario at the time of Regional Peak	9
10.	Hourly Load/Generation Data of region for Peak day & Lean day	10
11	Notified Power Cut, Restriction & Power Supply to Agriculture Sector	11
ANNEXURES		
I	Frequency Analysis	12
II	Voltage Analysis	13
III	Reservoir level of major hydro stations and Import from IPPs/CPPs by Constituents	14
EXHIBITS		
I	Chart: Effective Capacity & Generation Corresponding to Peak Demand Met	15
II	Chart: Net Energy Generation & Reservoir Levels recorded	16
III	Chart: Capacity & Generation pattern of the Peak Day	17
IV	Daily Regional Peak Demand Met & Shortage	18
V	Hourly Load/generation Pattern of Peak Day	19
VI	Hourly Load/generation Pattern of Lean Day	20
VII	Monthly Load Duration Curve	21
VIII	Reservoir Levels	22

Highlights of Eastern Regional Power System for July- 2022

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Jul, 2022** was **26609 MW** which is 5.82% more than the **Jul, 2021** (25145 MW). Individual **Peak Demand (MW)** of all the constituents **increased** (except Sikkim) compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Jul, 2022** was **569.64 MU** (excluding export), which is 14.28% more than the corresponding period of last year (498.44 MU).
- The **Average regional PLF of thermal units during the month is 71.79 %**, which is 2.82% more than the corresponding period of the last year (**68.97%**).

Southern TPS (CESC) registered the highest PLF of 100.67%, followed by TSTPP (NTPC) 96.40% and Chandrapura U 7#8 (DVC) 93.39% during the month of **Jul, 2022**.

- **Maximum Net generation** was **31284.43 MW** against total **Effective Capacity of 42203.41 MW** (including import from Bhutan). At the time of Regional peak (**26609 MW** on 19.07.2022 at 24.00 hrs.), the generation was **28853 MW**, import from CPP was 1547 MW and Net export was 3792 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 73.79% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and minimum frequency were 50.30 Hz and 49.42 Hz, respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.24 Hz** and **49.52 Hz** respectively (**refer Annexure-I**).
- **At 400 kV voltage level**, the **maximum Voltage** recorded was 419 KV at Jeypore 400 KV S/s whereas the minimum voltage recorded 388 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was 9280 MW (including Nepal and Bangladesh) on 27th Jul, 2022 at 07:00 hrs. Total net energy export during the month was 3347.93 MU (Inc.Transmission loss) which corresponds to 16.86 % of Ex-bus total generation 19862.66 MU of Eastern Region.
- The import from CPPs was 1144.13 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	6069	1004	2686.88
WR	1556	4549	-1062.71
SR	3378	523	1018.68
NER	1716	483	342.21
BANGLADESH			606.91
NEPAL (via-CTU)			-243.32
Chukha, Kurichu, Tala			0
Total			3347.93
NEPAL by Bihar(NBPDCL)			3.20

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Jul-22		JULY-2021	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	32500		30120	2380	7.90
	HYDRO (MW)	5990	\$	5990	0	0
	DIESEL (MW)	0		0	0	0
	RES (MW)	1518		1518	0	0
	TOTAL (MW)	40007		37627	2380	6.33
2)	Peak Demand (MW)	27739		26019	1721	6.61
3)	Peak Demand Met (MW)	26609		25145	1464	5.82
4)	Shortage (MW)	1130		874	257	0.00
5)	% Shortage	4.07		3.36	0.72	0.00
6)	Average Energy Requirement Per Day (MU)	576.81		500.02	76.79	15.36
7)	Average Energy Availability Per Day (MU)	569.64		498.44	71.20	14.28
8)	Average Shortage Per Day (MU)	7.17		1.57	5.60	--
9)	% Shortage	1.24		0.31	0.93	--
10)	Net Generation for the Month					
	Thermal (MU)	16072.12		14342.53	1729.59	12.06
	Hydro (MU)	3702.34	*	4001.28	-298.94	-7.47
	RES (MU)	88.21		89.93	0.00	-
	Total (MU)	19862.66		18433.74	1428.92	7.75
11)	Generation at the Time of Max. Regional Demand Met (19-07-22 at 24.00 Hrs.)					
	Thermal (MW)	23260		21463	1797	8.37
	Hydro (MW)	5516	*	7015	-1499	-21.37
	RES(MW)	77		58	20	34.10
	Total (MW)	28853		28536	317	1.11
12)	Inter-Regional Energy Transfer					
	Export (MU)	4653.95		5186.22	-532.27	-10.26
	Import (MU)	1306.03		1110.34	195.69	17.62
	Net Exp.(+)/Net Imp.(-) (MU)	3347.93		4075.89	-727.96	-17.86
13)	Import From Captive(MU)	1144.13		1093.90	50.23	4.59
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 27-07-22 at 07.00Hrs	9280		9869	-589	-5.96
	Max Import (MW) on 17-07-22 at 14.00Hrs	4914		3859	1055	27.35
	Max Net Export(+)/Import (-) (MW)	9065		9869	-804	-8.14
15)	Maximum voltage recorded	419		JEYPORE	400 kv	s/s
16)	Minimum voltage recorded	388		MUZAFFARPUR	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 JULY'2022

A) Net Average Energy Per Day

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	131.54	136.67	5.14	3.76
JUVNL	37.66	39.78	2.13	5.35
DVC	74.25	74.27	0.02	0.03
ODISHA	130.40	130.44	0.04	0.03
WBSEDCL	159.12	159.24	0.12	0.08
CESC	34.90	34.91	0.01	0.03
SIKKIM	1.49	1.49	0.00	0.03
REGION	569.64	576.81	7.17	1.24

B) Peak Demand in MW:

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	6631	7852	1221	15.55
JUVNL	1918	2253	336	14.89
DVC	3309	3309	0	0.00
ODISHA	6259	6259	0	0.00
WBSEDCL	7915	7916	1	0.02
CESC	1879	1883	4	0.2
SIKKIM	91	91	0	0.00
REGION	26609	27739	1130	4.07

➤ DIVERSITY FACTOR : 1.05

➤ Regional Peak Demand Met on 19-7-2022 at 24.00 hrs. at 50 Hz.

CONSTITUENT-WISE PERFORMANCE DATA JULY-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	303.89	23.96	327.84	0.00	29.80	0.00	29.80	0.00	274.09	23.96	298.04	0.00	3779.55	4077.59	131.5	6631	6683
JUVNL	7.55	369.15	0.00	376.70	0.00	39.11	0.00	39.11	7.55	330.04	0.00	337.59	25.99	803.81	1167.39	37.7	1918	1974
DVC	6.67	3753.74	0.00	3760.41	0.15	268.55	0.00	268.70	6.52	3485.19	0.00	3491.71	7.91	-1197.79	2301.83	74.3	3309	3691
ODISHA(OPGC+OHPC+ITPS)	427.22	899.68	43.20	1370.09	2.74	63.43	0.00	66.18	424.48	836.24	43.20	1303.92	834.15	1904.40	4042.46	130.4	6259	6319
WBPDC+WBSEDCL+DPL	188.53	2634.19	18.17	2840.89	0.00	229.90	0.00	229.90	188.53	2404.29	18.17	2610.99	276.08	2045.62	4932.69	159.1	7915	8283
CESC	0.00	520.01	0.00	520.01	0.00	43.41	0.00	43.41	0.00	476.60	0.00	476.60	0.00	605.24	1081.84	34.9	1879	1945
HEL	0.00	312.70	0.00	312.70	0.00	25.72	0.00	25.72	0.00	286.98	0.00	286.98	0.00	-286.98				
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	44.17	46.17	1.5	91	91
NTPC	0.00	6926.33	0.88	6927.21	0.00	473.02	0.00	473.02	0.00	6453.31	0.88	6454.19	0.00	-6454.19				
MPL	0.00	671.93	0.00	671.93	0.00	671.93	0.00	671.93	0.00	0.00	0.00	0.00	0.00	0.00				
APNRL	0.00	248.26	0.00	248.26	0.00	248.26	0.00	248.26	0.00	0.00	0.00	0.00	0.00	0.00				
GMR	0.00	252.95	0.00	252.95	0.00	252.95	0.00	252.95	0.00	0.00	0.00	0.00	0.00	0.00				
JITPL	0.00	470.53	0.00	470.53	0.00	32.94	0.00	32.94	0.00	437.59	0.00	437.59	0.00	-437.59				
NHPC (Inc TLDP= 185.2MU)	629.39	0.00	0.00	629.39	0.00	0.00	0.00	0.00	629.39	0.00	0.00	629.39	0.00	-629.39	0.00			
CHUZACHEN HPS	76.47	0.00	0.00	76.47	0.00	0.00	0.00	0.00	76.47	0.00	0.00	76.47	0.00	-76.47	0.00			
DIKCHU HPS	66.63	0.00	0.00	66.63	0.00	0.00	0.00	0.00	66.63	0.00	0.00	66.63	0.00	-66.63	0.00			
JORHANG HPS	67.47	0.00	0.00	67.47	0.00	0.00	0.00	0.00	67.47	0.00	0.00	67.47	0.00	-67.47	0.00			
TASHIDING HPS	74.63	0.00	0.00	74.63	0.00	0.00	0.00	0.00	74.63	0.00	0.00	74.63	0.00	-74.63	0.00			
TEESTA-III HPS	943.58	0.00	0.00	943.58	0.00	0.00	0.00	0.00	943.58	0.00	0.00	943.58	0.00	-943.58	0.00			
RONGNICHU HEP	52.20	0.00	0.00	52.20	0.00	0.00	0.00	0.00	52.20	0.00	0.00	52.20	0.00	-52.20	0.00			
CHPC(Birpara Receipt)	231.54	0.00	0.00	231.54	0.00	0.00	0.00	0.00	231.54	0.00	0.00	231.54	0.00	-231.54	0.00			
KHPS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
THPS	474.61	0.00	0.00	474.61	0.00	0.00	0.00	0.00	474.61	0.00	0.00	474.61	0.00	-474.61	0.00			
DAGACHU HPS	60.50	0.00	0.00	60.50	0.00	0.00	0.00	0.00	60.50	0.00	0.00	60.50	0.00	-60.50	0.00			
Mangdechhu HEP	398.24	0.00	0.00	398.24	0.00	0.00	0.00	0.00	398.24	0.00	0.00	398.24	0.00	-398.24	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														8.890	8.89			
Total	3705.24	17363.36	88.21	21156.80	2.89	2379.02	0.00	2381.91	3702.34	14984.34	88.21	18774.89	1144.13	-2260.15	17658.87	569.64	26609	27864

3A

18774.89

17658.87

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

A) Net Average Energy

Month	2021-22					2022-23				
	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	495.89	497.87	1.98	0.40	49.99	542.68	555.15	12.46	2.25	49.93
MAY	429.83	430.89	1.06	0.25	49.99	519.86	524.87	5.02	0.96	49.99
JUNE	462.07	462.84	0.77	0.17	49.99	547.72	553.79	6.07	1.10	49.98
JULY	498.44	500.02	1.57	0.31	50.00	569.64	576.81	7.17	1.24	49.99
AUGUST	501.37	505.13	3.76	0.74	49.99	-	-	-	-	-
SEPTEMBER	485.60	489.40	3.80	0.78	50.00	-	-	-	-	-
OCTOBER	453.17	458.67	5.51	1.20	49.98	-	-	-	-	-
NOVEMBER	388.80	390.35	1.55	0.40	49.99	-	-	-	-	-
DECEMBER	384.67	388.30	3.63	0.94	49.99	-	-	-	-	-
JANUARY	409.39	412.33	2.94	0.71	49.99	-	-	-	-	-
FEBRUARY	409.74	412.62	2.87	0.70	49.99	-	-	-	-	-
MARCH	474.37	479.88	5.51	1.15	49.97	-	-	-	-	-

B) Peak in MW:

Month	2021-22					2022-23				
	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	24405	24405	0	0.00	49.99	25690	25735	45	0.17	49.93
MAY	24191	24191	0	0.00	49.99	25070	25369	299	1.18	49.99
JUNE	23494	23521	28	0.12	49.99	26196	26730	534	2.00	49.98
JULY	25145	26019	874	3.36	50.00	26609	27739	1130	4.07	49.99
AUGUST	24157	24236	79	0.33	49.99	-	-	-	-	-
SEPTEMBER	25010	25454	445	1.75	50.00	-	-	-	-	-
OCTOBER	23675	23979	304	1.27	49.98	-	-	-	-	-
NOVEMBER	20961	20998	37	0.18	49.99	-	-	-	-	-
DECEMBER	20631	20992	362	1.72	49.99	-	-	-	-	-
JANUARY	21204	21396	191	0.89	49.99	-	-	-	-	-
FEBRUARY	21198	21540	342	1.59	49.99	-	-	-	-	-
MARCH	24582	24762	180	0.73	49.97	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JULY -2022

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 (2022-23) in MU	Cummulative Net Energy Generation upto Current Month (2022-23) in MU
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.91	-0.54	33.38	25.28
	Thermal	Barauni (U# 8)	250.00	250.00	150.51	136.60	551.72	503.22
		Barauni (U# 9)	250.00	250.00	152.46	138.02	585.14	526.59
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	0.00	0.00
	RES	Thermal Total	940.00	930.00	303.89	274.08	1170.24	1055.10
			354.91	354.91	23.96	23.96	82.82	82.82
		Total BIHAR	1294.91	1284.91	327.84	298.04	1253.05	1137.92
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	212.39	186.83	864.69	771.52
TPCL		JOJOBERA	240.00	240.00	156.76	143.21	156.76	143.21
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	7.55	7.55	11.62	11.61
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total	190.41	190.41	7.55	7.55	11.62	11.61
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.81	0.00	-2.43
		Chandrapura(U7 # 8)	500.00	500.00	347.42	313.62	1175.11	1058.97
		Durgapur(4)	210.00	210.00	5.69	3.75	116.60	96.58
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	668.08	595.48	3005.18	2677.83
		Mejia(U # 7,8)	1000.00	1000.00	661.37	625.07	2523.60	2383.71
		Bokaro-A(1)	500.00	500.00	292.47	274.38	1268.62	1196.18
		Durgapur STPS (U#1,2)	1000.00	1000.00	617.73	583.55	2481.66	2346.51
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	589.82	553.31	2099.72	1966.07
		Koderma STPS (U#1,2)	1000.00	1000.00	571.16	536.85	2486.15	2345.17
		Total Thermal	6750.00	6750.00	3753.74	3485.19	15156.64	14068.59
	Hydro	Maithon (U#1,2,3)	63.20	63.20	1.05	1.01	29.33	29.20
		Panchet (U#1,2)	80.00	80.00	5.62	5.52	25.31	24.87
		Tilaiya (U#1,2)	4.00	4.00	0.00	0.0	0.00	0.0
		Hydro Total	147.20	147.20	6.67	6.52	54.63	54.02
			Total DVC	6897.20	6897.20	3760.41	3491.71	15211.27
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	320.00	275.00	150.19	134.92	560.40	502.52
		Santalidih TPS(U#5&6)	500.00	500.00	343.43	315.03	1386.80	1271.84
		Kolaghat TPS	840.00	840.00	356.64	314.64	1387.21	1220.07
		Bakreswar TPP	1050.00	1050.00	626.91	572.34	2648.81	2416.98
		Sagardighi TPP	1600.00	1600.00	937.07	870.31	3725.66	3440.67
		DPPS (300+250)	550.00	550.00	219.94	197.06	851.30	762.53
		Thermal Total	4860.00	4815.00	2634.19	2404.29	10560.17	9614.61
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	25.77	25.77	73.15	73.15
		Rammam (4x12.73)	51.00	51.00	30.95	30.95	81.88	81.88
		Teesta C.F. (3x3x7.5)	67.50	67.50	10.25	10.25	39.70	39.70
		Purulia PSS (4x225)	900.00	900.00	121.57	121.57	465.26	465.26
		Total Hydro	1053.50	1053.50	188.53	188.53	659.98	659.98
		RES	500.76	500.76	18.17	18.17	61.50	61.50

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JULY -2022

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 (2022-23) in MU	Cummulative Net Energy Generation upto Current Month (2022-23) 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	101.12	92.99	382.80	350.69
		Budge-Budge (3x250)	750.00	750.00	418.89	383.62	1882.27	1730.84
		Total CESC	1125.00	1125.00	520.01	476.60	2265.07	2081.53
HEL	Thermal	HEL	600.00	600.00	312.70	286.98	1480.63	1362.92
		Total West Bengal	8139.26	8094.26	3673.60	3374.58	15027.35	13780.54
OPGC	Thermal	IB TPS	420.00	420.00	168.07	145.90	941.44	830.25
		IB TPS U#3(660 MW)	660.00	660.00	307.83	290.47	1531.35	1441.68
		IB TPS U#4(660 MW)	660.00	660.00	423.77	399.87	1169.84	1103.32
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	116.56	116.32	229.68	228.76
		Hirakud-II (Chiplima)	72.00	72.00	34.36	34.25	111.48	111.16
		Balimela (6x60+2x75)	510.00	510.00	112.08	111.39	479.46	476.73
		Rengali (5x50)	250.00	250.00	39.48	39.38	199.72	199.33
		Upper Kolab (4x80)	320.00	320.00	25.48	25.40	115.85	115.48
		Indravati HPS (4x150)	600.00	600.00	80.19	78.67	171.16	167.27
		Mckd.(Odisha drawal)	57.38	57.38	19.07	19.07	76.28	76.28
		Total Hydro	2084.88	2084.88	427.22	424.48	1383.62	1375.01
		RES	539.57	539.57	43.20	43.20	231.61	231.61
		Total Odisha	4364.45	4364.45	1370.09	1303.92	5257.87	4981.87
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	6.00	6.00
NTPC		MTPS Stg-II	390.00	390.00	124.67	109.90	886.48	797.94
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	933.88	856.36	3356.91	3083.51
		FSTPP (U# 6)	500.00	500.00	0.00	0.00	858.48	801.23
		KhSTPP (4x210+3x500)	2340.00	2340.00	1372.16	1270.85	5677.97	5272.30
		TSTPP (2x500)	1000.00	1000.00	717.21	665.14	2656.75	2461.41
		BARH STPS II (2X660)	1320.00	1320.00	855.75	808.72	3402.68	3222.40
		BARH STPS I (1X660)	660.00	660.00	330.39	308.36	1530.06	1432.72
		BRBCL # 1,2,3,4(4X250 MW)	1000	1000	522.99	482.21	2378.97	2195.41
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# I&2	1980.00	1980.00	1094.04	1039.14	3880.68	3692.29
		NSTPS infirm			0.00	0.00	75.63	69.22
		DSTPP #1&2	1600.00	1600.00	975.24	912.63	3312.51	3100.92
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		Total NTPC	12390.00	12390.00	6926.33	6453.31	28017.12	26129.35
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	41.15	41.15	138.76	138.76
		Teesta (3x170)	510.00	510.00	386.27	386.27	1284.25	1284.25
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	201.98	201.98	602.46	602.46
		Total NHPC	862.00	862.00	629.39	629.39	2025.47	2025.47
		MPL (U#1&2)	1050.00	1050.00	671.93	633.36	2671.73	2521.70
		APNRL (U#1,2)	540.00	540.00	248.26	221.21	1292.70	1178.39
		GMR (2x350)	700.00	700.00	252.95	233.21	1431.59	1329.54
		JITPL (2X600)	1200.00	1200.00	466.41	437.59	2184.37	2064.20
		CHUZACHEN** (2x55)	110.00	110.00	76.47	76.47	233.12	233.12
		JORETHANG (2x48)	96.00	96.00	67.47	67.47	174.09	174.09
		TEESTA URJA St III (6x200)	1200.00	1200.00	943.58	943.58	2684.19	2684.19
		Tashilding (2x48.5)	97.00	97.00	74.63	74.63	174.65	174.65
		DICKCHU (2x48)	96.00	96.00	66.63	66.63	260.96	260.96
		RONGNICHU HEP (2x56.5)			52.20	52.20	193.13	193.13
		TALCHER SOLAR	10.00	10.00	0.88	0.88	4.48	4.48
EASTERN REGIONAL		Total Thermal (E.R)	32555.00	32500.00	17359.24	16072.12	70894.34	65695.89
		Total Hydro (E.R)	5989.58	5989.58	2540.36	2537.46	7855.48	7846.25
		Total RES	1517.83	1517.83	88.21	88.21	386.41	386.41
		TOTAL (E.R)	40062.41	40007.41	19987.80	18697.78	79136.23	73928.55
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	231.54	231.54	729.35	729.35
	Hydro	Kurichu (4x15)	60.00	60.00	0.00	0.00	9.91	9.91
	Hydro	TALA (6x170)	1020.00	1020.00	474.61	474.61	1012.48	1012.48
	Hydro	DAGACHU (2x63)	126.00	126.00	60.50	60.50	146.96	146.96
		MANGDECHU(4x180)	720.00	720.00	398.24	398.24	1145.66	1145.66
Grand Total			42348.41	42203.41	21152.68	19862.66	82180.59	76972.91

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JULY* 2022

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 (2022-23) in MU	Cummulative PLF upto Current Month (%)
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.91	0.58	33.38	8.53
	Thermal	Barauni (U# 8)	250.00	250.00	150.51	80.92	551.72	75.37
		Barauni (U# 9)	250.00	250.00	152.46	81.97	585.14	79.94
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	0.00	0.00
		Thermal Total	940.00	930.00	303.89	43.92	1170.24	42.22
	RES		354.91	354.91	23.96		82.82	
		Total BIHAR	1294.91	1284.91	327.84		1253.05	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	212.39	67.97	864.69	70.31
		JOJOBERA	240.00	240.00	156.76	87.79	156.76	87.79
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	7.55		11.62	
	RES		60.41	60.41	0.00		0.00	
		Total	190.41	190.41	7.55		11.62	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	347.42	93.39	1175.11	80.27
		Durgapur(4)	210.00	210.00	0.00	3.64	116.60	18.96
		Mezla(1,2,3,4,5,6)	1340.00	1340.00	668.08	67.01	3005.18	76.59
		Mejia(U # 7,8)	1000.00	1000.00	661.37	88.89	2523.60	86.19
		Bokaro-A(1)	500.00	500.00	292.47	78.62	1268.62	86.65
		Durgapur STPS (U#1,2)	1000.00	1000.00	617.73	83.03	2481.66	84.76
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	589.82	66.06	2099.72	59.76
		Koderma STPS (U#1,2)	1000.00	1000.00	571.16	76.77	2486.15	84.91
		Total Thermal	6750.00	6750.00	3753.74	74.75	15156.64	76.69
	Hydro	Maithon (U#1,2,3)	63.20	63.20	1.05		29.33	
		Panchet (U#1,2)	80.00	80.00	5.62		25.31	
		Tilaiya (U#1,2)	4.00	4.00	0.00		0.00	
		Hydro Total	147.20	147.20	6.67		54.63	
		Total DVC	6897.20	6897.20	3760.41		15211.27	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	320.00	275.00	150.19	73.41	560.40	69.60
		Santalidih TPS(U#5&6)	500.00	500.00	343.43	92.32	1386.80	94.73
		Kolaghat TPS	840.00	840.00	356.64	57.07	1387.21	56.40
		Bakreswar TPP	1050.00	1050.00	626.91	80.25	2648.81	86.16
		Sagardighi TPP	1600.00	1600.00	937.07	78.72	3725.66	79.53
		DPPS (300+250)	550.00	550.00	219.94	53.75	851.30	52.86
		Thermal Total	4860.00	4815.00	2634.19	73.53	10560.17	74.90
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	25.77		73.15	
		Rammam (4x12.73)	51.00	51.00	30.95		81.88	
		Teesta C.F. (3x3x7.5)	67.50	67.50	10.25		39.70	
		Purulia PSS (4x225)	900.00	900.00	121.57		465.26	
		Total Hydro	1053.50	1053.50	188.53		659.98	
	RES		500.76	500.76	18.17		61.50	
DE- COMMI SSIONED	1.WBPDCL,Bandel TPS Unit #1 (IC=1X60 MW,EC=1X60 MW) decommissioned from 21.02.2022.							
	2.WBPDCL,Kolaghat TPS Unit #1,2 (IC=2X210 MW,EC=2X210 MW) decommissioned from 21.02.2022.							
	3.BIHAR, Muzaffarpur TPS Unit(KBUNL) #1,2 (IC=2X110 MW, EC=2X110 MW) decommissioned from 08.09.2021.							
	4.NTPC, TTPS Odisha All Six units(4X62.5+2X110) decommissioned from 01.04.2021							
	5.DVC, BTPS(B) Unit #3 (210 MW) de-commissioned from 01.04.2021							
	6. DPL U#6 (110 MW) Decommissioned from 28.01.20 as per CEA.							
	7. CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA.							
COMMISS- IONED	1.NTPC NPGCL U#3 (660 MW) COD from 01.06.2022							
	2.NTPC Nabinagar TPP(BRBCL) U#4 (250 MW) COD from 01.12.2021							
	3.NTPC BARAUNI TPP U#9 (250 MW) COD from 01.11.2021							
	4.NTPC Barh St-1, U#1(660 MW) COD from 12.11.2021							
	5.NSTPS U#2 (660 MW) COD from 23.07.2021							
	6.NTPC DARLIPALI STPS U#2 (800 MW) COD 01.09.2021							
	7.DARLIPALI S TPS U#1(800 MW) COD 01.03.2020							
	8.BARAUNI TPS U#1(250 MW) COD 01.03.2020							

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JULY* 2022

ORGANI- SATION	TYPE	POWER	INSTALLED	EFFECTIVE	Gross	PLF	Cummulative Gross	Cummulative PLF
		STATION	CAPACITY	CAPACITY	Energy	of Current	Energy Generation	upto Current
					Generation	Month	upto Current Month	Month
		(in MW)	(in MW)	in MU	(%)	(2022-23) 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	101.12	100.67	382.80	96.84
		Budge-Budge (3x250)	750.00	750.00	418.89	75.07	1882.27	85.71
		Total CESC	1125.00	1125.00	520.01	62.13	2265.07	68.76
HEL	Thermal	HEL	600.00	600.00	312.70	70.05	1480.63	84.28
		Total West Bengal	8139.26	8094.26	3673.60		15027.35	
OPGC	Thermal	IB TPS	420.00	420.00	168.07	53.79	941.44	76.55
		IB TPS U#3(660 MW)	660.00	660.00	307.83	67.01	1531.35	79.24
		IB TPS U#4(660 MW)	660.00	660.00	423.77	86.30	1169.84	60.54
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	116.56		229.68	
		Hirakud-II (Chiplima)	72.00	72.00	34.36		111.48	
		Balimela (6x60+2x75)	510.00	510.00	112.08		479.46	
		Rengali (5x50)	250.00	250.00	39.48		199.72	
		Upper Kolab (4x80)	320.00	320.00	25.48		115.85	
		Indravati HPS (4x150)	600.00	600.00	80.19		171.16	
		Mckd.(Odisha drawal)	57.38	57.38	19.07		76.28	
		Total Hydro	2084.88	2084.88	427.22		1383.62	
		RES	539.57	539.57	43.20		231.61	
Total Odisha			4364.45	4364.45	1370.09		5257.87	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		6.00	
NTPC		MTPS Stg-II	390.00	390.00	124.67	42.97	886.48	77.63
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	933.88	78.45	3356.91	71.66
		FSTPP (U# 6)	500.00	500.00	0.00	0.00	858.48	58.64
		KhSTPP (4x210+3x500)	2340.00	2340.00	1372.16	78.82	5677.97	82.87
		TSTPP (2x500)	1000.00	1000.00	717.21	96.40	2656.75	90.74
		BARH STPS II (2X660)	1320.00	1320.00	855.75	87.14	3402.68	88.04
		BARH STPS I (1X660)	660.00	660.00	330.39	67.28	1530.06	79.18
		BRBCL # 1,2,3,4(4X250 MW)	1000.00	1000.00	522.99	70.29	2378.97	81.25
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# I&2	1980.00	1980.00	1094.04	74.27	3880.68	80.33
		NSTPS infirm					75.63	
		DSTPP #1&2	1600.00	1600.00	975.24	81.93	3312.51	70.71
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		Total NTPC	12390.00	12390.00	6926.33	75.14	28017.12	79.13
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	41.15		138.76	
		Teesta (3x170)	510.00	510.00	386.27		1284.25	
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	201.98		602.46	
		Total NHPC	862.00	862.00	629.39		2025.47	
	Thermal	MPL (U#1&2)	1050.00	1050.00	671.93	86.01	2671.73	86.90
		APNRL (U#1,2)	540.00	540.00	248.26	61.79	1292.70	81.76
		GMR (2x350)	700.00	700.00	252.95	48.57	1431.59	69.85
		JITPL (2X600)	1200.00	1200.00	466.41	52.24	2184.37	62.17
		CHUZACHEN** (2x55)	110.00	110.00	76.47		233.12	
		JORETHANG (2x48)	96.00	96.00	67.47		174.09	
		TEESTA URJA St III (6x200)	1200.00	1200.00	943.58		2684.19	
		Tashilding (2x48.5)	97.00	97.00	74.63		174.65	
		DICKCHU (2x48)	96.00	96.00	66.63		260.96	
		RONGNICHU HEP (2x56.5)			52.20		193.13	
		TALCHER SOLAR	10.00	10.00	0.88		4.48	
		Total Thermal (E.R)	32555.00	32500.00	17359.24	71.79	70894.34	75.58
		EASTERN REGIONAL		Total Hydro (E.R)	5989.58	5989.58	2540.36	
Total RES	1517.83			1517.83	88.21		386.41	
TOTAL (E.R)	40062.41			40007.41	19987.80		79136.23	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	231.54		729.35	
	Hydro	Kurichu (4x15)	60.00	60.00	0.00		9.91	
	Hydro	TALA (6x170)	1020.00	1020.00	474.61		1012.48	
	Hydro	DAGACHU (2x63)	126.00	126.00	60.50		146.96	
		MANGDECHU(4x180)	720.00	720.00	398.24		1145.66	
	Grand Total		42348.41	42203.41	21152.68		82180.59	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK DURING THE MONTH
OF JULY'2022 (19-7-2022)

Date	19-Jul-22					
Time	24.00	Hrs.				
Frequency	50.00	Hz.				
						(All Fig. in MW)
	Installed	Effective				Net Gen
System/State	Capacity	Capacity	Hydro	Thermal	RES	Total
BSPHCL	1295	1285	0	446	0	446
JUVNL	850	850	0	486	0	486
DVC	6897	6897	0	5010	0	5010
ODISHA	4364	4364	1044	1037	77	2159
WBSEDCL	5864	5819	538	3469	0	4007
TLDP	292	292	279	0	0	279
HEL HALDIA	600	600	0	547	0	547
CESC	1125	1125	0	805	0	805
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	12390	12390	0	9602	0	9602
NHPC	570	570	587	0	0	587
CHUKHA	360	270	238	0	0	238
KURICHU	60	60	50	0	0	50
TALA	1020	1020	489	0	0	489
MPL	1050	1050	0	741	0	741
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	235	0	235
Kamalganga (GMR)	700	700	0	322	0	322
JITPL	1200	1200	0	559	0	559
RONGNICHU HEP (2x56.5)	113	113	61	0	0	61
Chuzachen	110	110	118	0	0	118
Jorethang	96	96	94	0	0	94
TEESTA URJA St III	1200	1200	1301	0	0	1301
Tashilding	97	97	110	0	0	110
DICKCHU	96	96	80	0	0	80
<u>Daghachu</u>	126	126	54	0	0	54
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	473	0	0	473
<u>Total</u>	42348	42203	5516	23260	77	28853
Import From Captive:						1547
Export To:						
NER						376
SR						1316
WR						-2387
NR						4036
Bangladesh						778
Nepal						-327
Total						3792
➤ Regional Net Peak Demand Met (MW) :						26609

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

Hourly Load Generation Data OF ER on Regional Peak Day During The Month of JULY'2022 (19-7-2022)

(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	4097	22987	27084	1457	1150	4200	25490	18	286	25794
2	3742	23080	26822	1324	1158	4184	25120	68	223	25412
3	3767	22954	26721	1322	1168	4168	25044	13	736	25793
4	3677	22654	26331	1310	1187	4305	24523	-15	342	24850
5	3586	22705	26291	1317	1194	4788	24014	13	342	24369
6	3551	22696	26247	1322	1185	5463	23291	10	344	23645
7	3577	22767	26343	1329	1207	6100	22779	48	236	23063
8	3470	22525	25995	1330	1262	6002	22585	-24	238	22799
9	3320	22020	25340	1279	1249	4980	22888	-56	539	23371
10	3282	21829	25111	1253	1267	3762	23868	-67	116	23917
11	3388	22134	25522	1137	1285	3687	24256	6	115	24378
12	3458	22378	25837	1154	1334	3410	24914	59	2	24975
13	3438	22386	25824	1142	1360	3236	25090	108	0	25197
14	3434	21968	25402	1202	1347	2746	25206	18	0	25223
15	3569	22450	26018	1213	1346	3037	25541	4	300	25845
16	3452	22367	25819	1204	1359	3054	25328	0	115	25443
17	3605	22452	26057	1194	1347	3996	24601	26	100	24727
18	3272	22611	25883	1310	1319	4672	23839	31	389	24259
19	4237	22783	27020	1387	1271	4837	24840	-4	303	25139
20	4781	23118	27900	1493	1258	4405	26245	191	546	26982
21	4772	23028	27800	1552	1295	4397	26249	41	1121	27412
22	4771	22996	27766	1554	1323	4281	26362	9	1322	27693
23	4631	23153	27785	1569	1301	4236	26419	-7	1132	27544
24	4289	23260	27549	1547	1304	3792	26609	-2	1132	27739

Hourly Load Generation Data of ER On Regional Lean Day During The Month of JULY'2022 (1-7-2022)

(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	3075	22038	25113	1330	1900	4072	24270	19	1	24290
2	3051	21480	24531	1351	1907	3980	23808	8	1	23817
3	3041	20309	23351	1286	1914	3428	23123	30	0	23153
4	2962	19855	22817	1267	1913	3233	22765	-10	2	22766
5	2820	19761	22581	1269	1899	3725	22024	52	2	22078
6	2826	20621	23447	1274	1864	4944	21641	70	2	21713
7	2847	21610	24457	1159	1851	5866	21601	51	2	21654
8	2962	21619	24581	1142	1456	5103	22077	6	1	22084
9	3076	20852	23928	1126	1562	4291	22324	78	1	22404
10	3145	20841	23985	1127	1609	3892	22829	66	540	23436
11	3142	20922	24065	1127	1741	3561	23372	-31	0	23372
12	3117	20450	23567	1123	1794	3013	23471	-49	83	23505
13	3112	19363	22475	1114	1800	2544	22845	-22	0	22845
14	3132	18476	21608	1118	1791	2271	22246	-8	0	22246
15	3108	18987	22095	1079	1836	2813	22197	8	0	22205
16	2952	19619	22571	1079	1873	3735	21788	-32	2	21790
17	2808	19659	22467	1094	1876	4846	20591	-61	26	20617
18	2856	20183	23039	1102	1871	6352	19660	5	1	19666
19	2831	21656	24486	1240	1870	6804	20792	-20	121	20893
20	3715	22554	26269	1306	1857	6299	23132	-2	0	23132
21	3891	22729	26620	1362	1886	6044	23824	-13	0	23824
22	4040	23050	27091	1365	1918	6318	24056	40	0	24096
23	3948	23193	27140	1377	1932	6320	24129	74	0	24203
24	3831	23183	27014	1367	1938	6154	24165	8	272	24445

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

FOR THE MONTH OF JULY'2022

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 158.15 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 65.62 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 2.34 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

Jul-22

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 HZ	HRS.	MIN HZ	HRS.	MAX HZ	HRS.	MIN HZ	HRS.
	TO	TO	TO	TO	TO	TO		TO	TO	TO								
	05	10	17	22	24	24		50.1		50.05								
01-Jul	49.98	49.93	50.04	50.00	49.95	49.99	10.57	69.73	19.70	69.73	50.25	16:03:50	49.72	08:56:40	50.18	0:00	49.77	0:00
02-Jul	49.98	49.95	50.00	49.96	49.91	49.97	11.74	81.60	6.66	81.60	50.15	13:29:50	49.75	22:33:20	50.10	0:00	49.80	0:00
03-Jul	50.01	50.03	50.06	49.97	50.00	50.02	4.11	65.58	30.31	65.58	50.30	16:07:40	49.80	19:11:30	50.24	0:00	49.86	0:00
04-Jul	49.96	49.94	49.99	49.94	49.83	49.95	20.58	69.53	9.87	69.53	50.16	10:19:20	49.63	19:13:20	50.11	0:00	49.72	0:00
05-Jul	49.99	50.03	50.00	49.94	49.96	49.99	8.98	72.66	18.36	72.66	50.22	13:02:20	49.61	19:14:10	50.14	0:00	49.79	0:00
06-Jul	50.00	50.02	50.02	49.92	49.94	49.99	8.36	74.49	17.15	74.49	50.19	16:01:50	49.54	19:24:30	50.16	0:00	49.61	0:00
07-Jul	49.99	49.97	49.98	50.00	49.97	49.98	9.33	77.26	13.41	77.26	50.13	08:30:50	49.73	06:13:10	50.08	0:00	49.77	0:00
08-Jul	50.01	49.97	50.03	50.02	50.03	50.01	2.72	72.99	24.29	72.99	50.18	14:00:10	49.62	09:41:20	50.11	0:00	49.72	0:00
09-Jul	50.01	50.02	50.00	50.01	49.98	50.01	4.81	70.35	24.84	70.35	50.28	13:04:30	49.72	13:42:50	50.19	0:00	49.85	0:00
10-Jul	50.02	50.01	50.00	50.02	50.02	50.01	5.44	66.77	27.79	66.77	50.23	09:03:40	49.69	14:53:00	50.18	0:00	49.75	0:00
11-Jul	50.02	50.01	50.01	49.89	50.02	49.99	9.44	67.99	22.57	67.99	50.17	13:30:40	49.63	19:23:20	50.11	0:00	49.71	0:00
12-Jul	49.98	50.02	49.99	49.97	50.01	49.99	6.45	74.91	18.65	74.91	50.06	13:02:30	49.76	13:44:10	50.09	0:00	49.85	0:00
13-Jul	50.01	49.98	50.00	50.00	50.00	50.00	4.83	80.07	15.10	80.07	50.16	13:04:30	49.76	11:51:20	50.10	0:00	49.86	0:00
14-Jul	50.01	50.03	49.97	49.97	50.00	49.99	11.47	65.73	22.80	65.73	50.30	13:14:10	49.62	16:20:10	50.22	0:00	49.71	0:00
15-Jul	49.96	49.98	49.95	49.98	50.02	49.97	15.02	70.96	14.02	70.96	50.26	13:31:00	49.74	06:18:20	50.09	0:00	49.76	0:00
16-Jul	49.99	50.01	50.01	49.94	50.03	49.99	6.56	76.32	17.12	76.32	50.15	14:03:20	49.63	19:32:30	50.09	0:00	49.77	0:00
17-Jul	50.02	50.01	50.00	49.92	49.96	49.99	9.99	70.43	19.58	70.43	50.19	09:57:50	49.42	11:55:50	50.16	0:00	49.73	0:00
18-Jul	50.00	49.96	49.95	49.84	49.99	49.95	18.85	76.27	4.88	76.27	50.14	13:00:20	49.57	19:20:00	50.05	0:00	49.52	0:00
19-Jul	49.98	50.02	49.96	49.94	50.01	49.98	9.35	78.33	12.31	78.33	50.22	09:03:40	49.77	19:41:20	50.13	0:00	49.66	0:00
20-Jul	49.95	49.96	50.05	49.98	50.02	49.99	10.25	63.16	26.59	63.16	50.28	14:05:40	49.79	08:19:30	50.20	0:00	49.89	0:00
21-Jul	50.03	50.02	50.00	50.00	50.04	50.01	3.50	69.20	27.30	69.20	50.21	13:05:10	49.77	06:37:20	50.20	0:00	49.88	0:00
22-Jul	50.00	49.97	50.02	50.00	50.00	50.00	1.94	84.02	14.04	84.02	50.28	14:05:40	49.75	08:19:30	50.13	0:00	49.89	0:00
23-Jul	49.99	49.97	50.00	50.02	50.00	49.99	7.86	72.62	19.52	72.62	50.19	11:01:40	49.75	08:18:40	50.13	0:00	49.82	0:00
24-Jul	50.01	50.02	50.03	49.97	50.02	50.01	3.55	75.17	21.28	75.17	50.23	10:04:20	49.75	19:51:30	50.17	0:00	49.81	0:00
25-Jul	50.02	49.99	50.03	50.02	50.00	50.01	2.44	72.40	25.16	72.40	50.18	14:04:40	49.79	06:15:20	50.11	0:00	49.89	0:00
26-Jul	49.99	49.98	49.95	49.99	50.01	49.98	8.28	83.96	7.76	83.96	50.13	16:04:30	49.72	14:14:00	50.07	0:00	49.80	0:00
27-Jul	50.00	49.98	50.02	49.94	50.01	49.99	7.71	78.34	13.95	78.34	50.23	14:02:10	49.55	19:21:10	50.13	0:00	49.68	0:00
28-Jul	49.97	50.00	50.00	49.91	49.99	49.98	12.09	78.04	9.86	78.04	50.14	13:02:30	49.65	19:37:30	50.06	0:00	49.72	0:00
29-Jul	50.00	50.00	49.99	49.99	50.02	49.99	4.72	81.18	14.10	81.18	50.19	15:34:10	49.77	12:45:40	50.11	0:00	49.85	0:00
30-Jul	50.04	50.03	50.01	50.01	50.02	50.02	1.40	69.50	29.10	69.50	50.17	13:05:50	49.80	20:10:20	50.12	0:00	49.89	0:00
31-Jul	50.01	50.00	50.02	50.06	50.04	50.02	0.24	67.40	32.36	67.40	50.24	13:02:00	49.86	18:41:30	50.18	0:00	49.94	0:00
MAX	50.04	50.03	50.06	50.06	50.04	50.02	20.58	84.02	32.36	84.02	50.30		49.86		50.24		49.94	
MIN	49.95	49.93	49.95	49.84	49.83	49.95	0.24	65.58	4.88	65.58	50.06		49.42		50.05		49.52	
AVG	50.00	49.99	50.00	49.97	49.99	49.99	7.74	73.79	18.46	73.79	50.20		49.70		50.13		49.78	

SUMMARY:

Avg. Frequency :

49.99 Hz.**Instantaneous Frequency :**

Maximum Frequency : 50.30 Hz at 16:07 Hrs.

Minimum Frequency : 49.42 Hz at 19:20 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.24 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.52 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	7.74	73.79	18.46

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF JULY'2022

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	414	400	410	396	414	392	418	396

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	415	388	410	398	405	396	419	400

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

Jul-22

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-07-22)	(31-07-21)		
Hirakud	192	180	185.45	184.47	182.77	01.07.22
Balimela	462	439	443.64	446.78	440.19	01.07.22
Rengali	123	109	111.14	116.97	110.07	01.07.22
Upperkolab	858	844	847.91	846.06	845.49	01.07.22
Indravati	642	625	633.09	630.10	629.72	01.07.22
Subernrekha	590	580	583.94	589.18	584.24	01.07.22

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Jul-22

(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	25.99
West Bengal	70.78	17.65	0	0	0	0	0	187.65	276.08
ODISHA	0	0	2.76	232.85	0.53	0.00	0	598.00	834.15
DVC	0	0	0	0	0	0	7.91	0	7.91
TOTAL	70.78	17.65	2.76	232.85	0.53	0.00	7.91	785.65	1144.13

C.

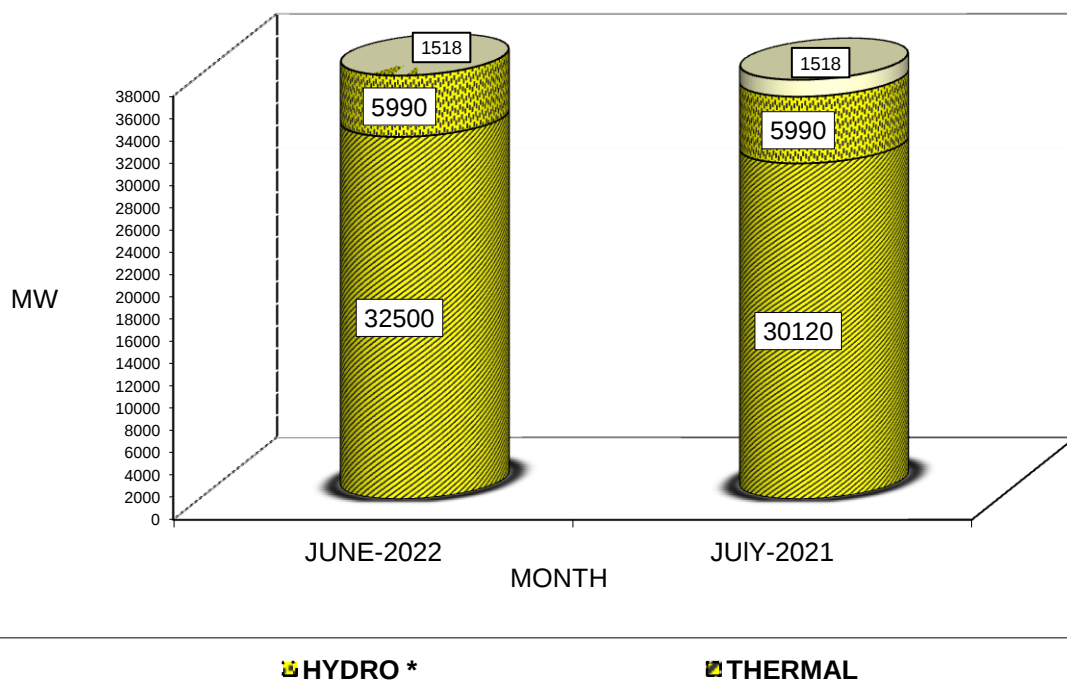
Distribution of Schedule Supply among Key Customers by IPPs during

Jul-22

(All figs. are in MU)

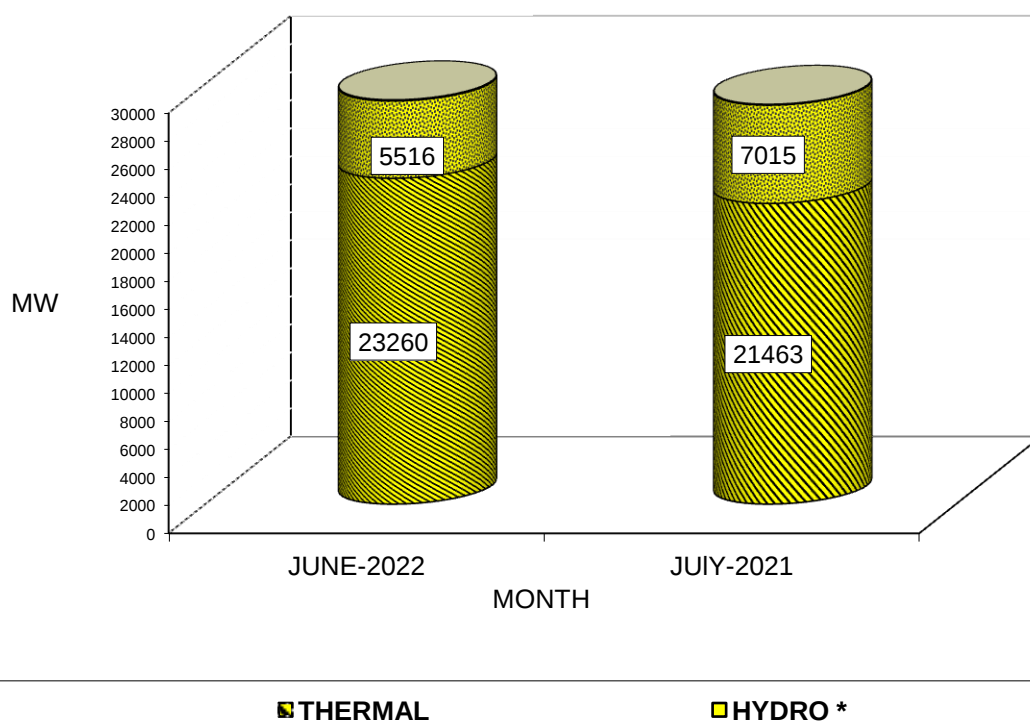
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	195.59	194.93	97.64	0.00	0	0	140.96	629.12
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	5.40	0	12.34	0.00	65.80	141.56	225.10
Total	195.59	200.33	97.64	12.34	0.00	65.80	282.52	854.22

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



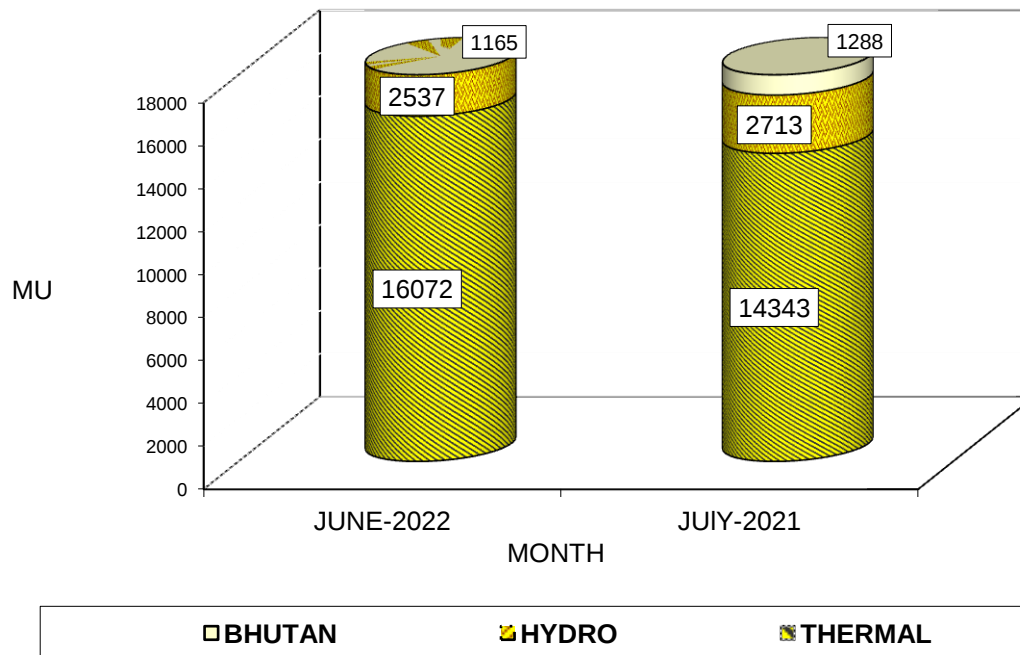
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

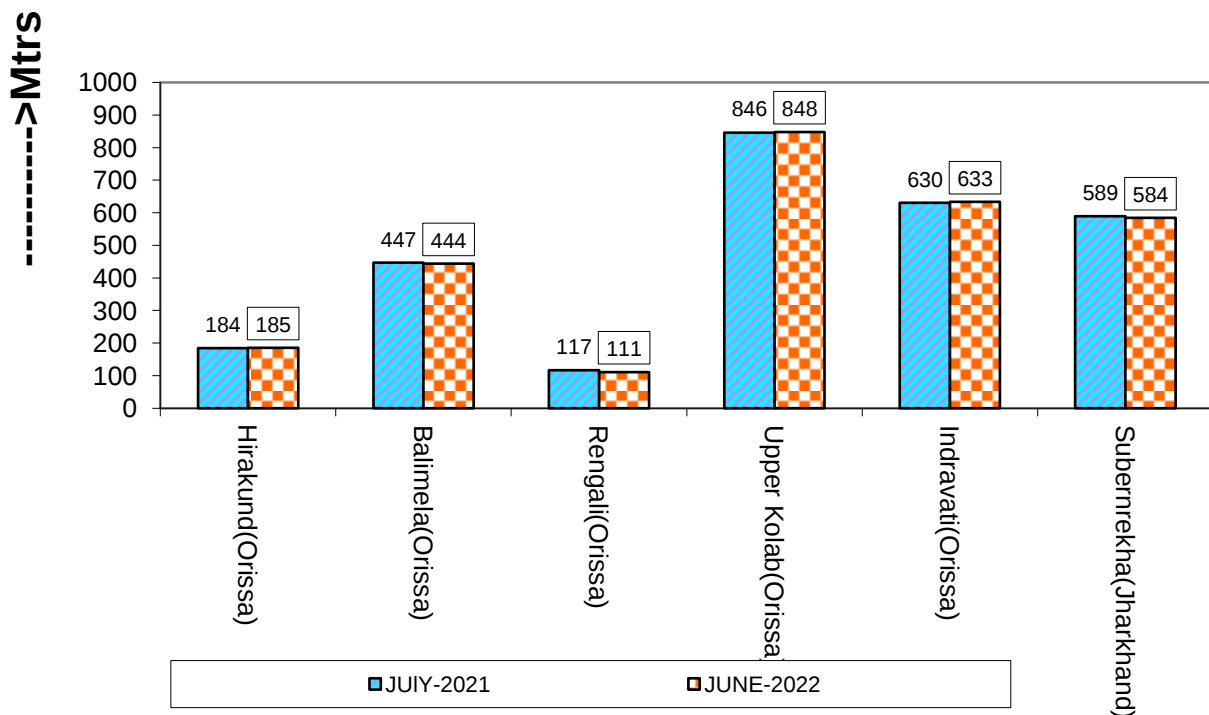


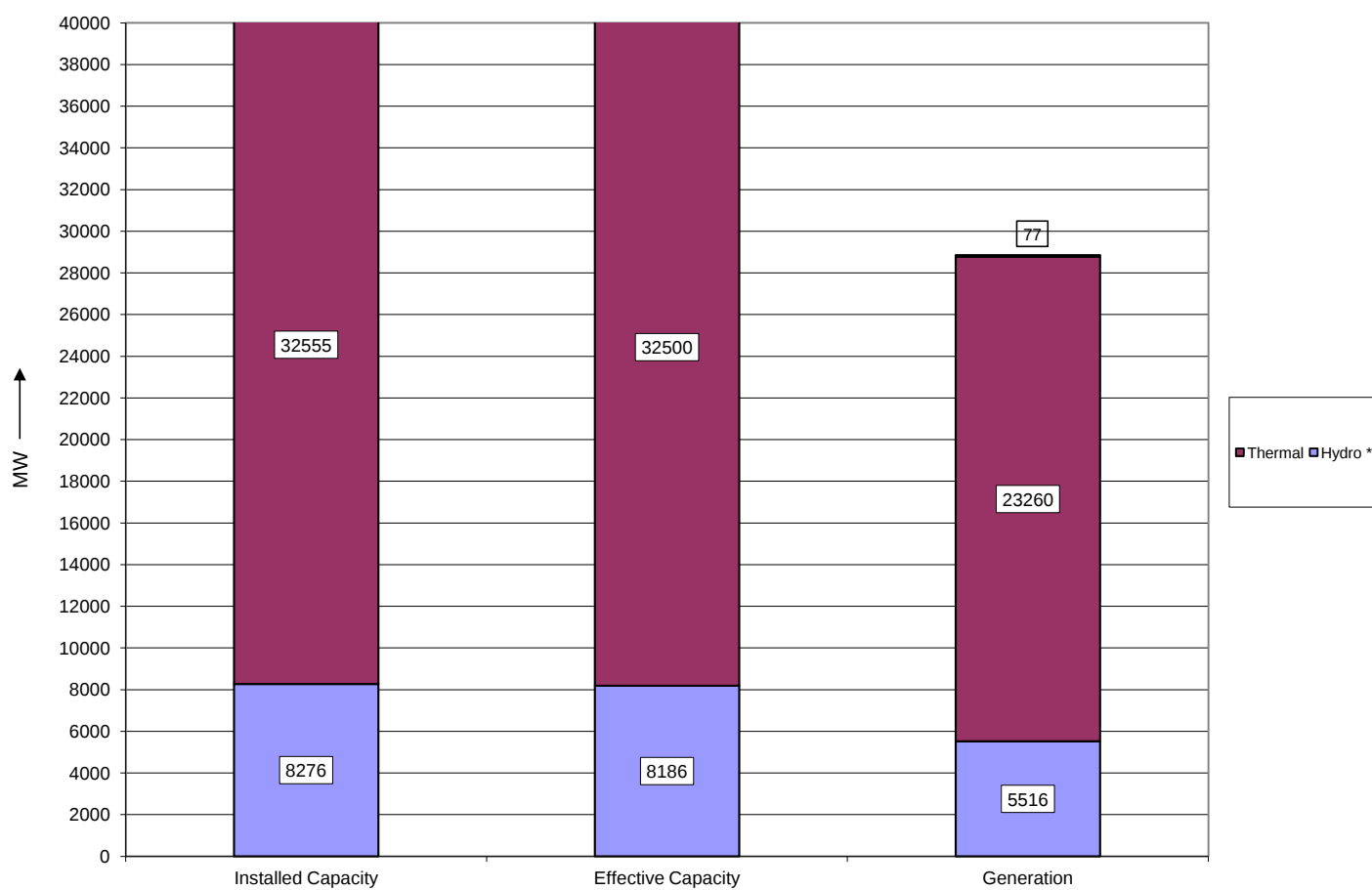
*Includes contribution from HEP of Bhutan

NET ENERGY GENERATION



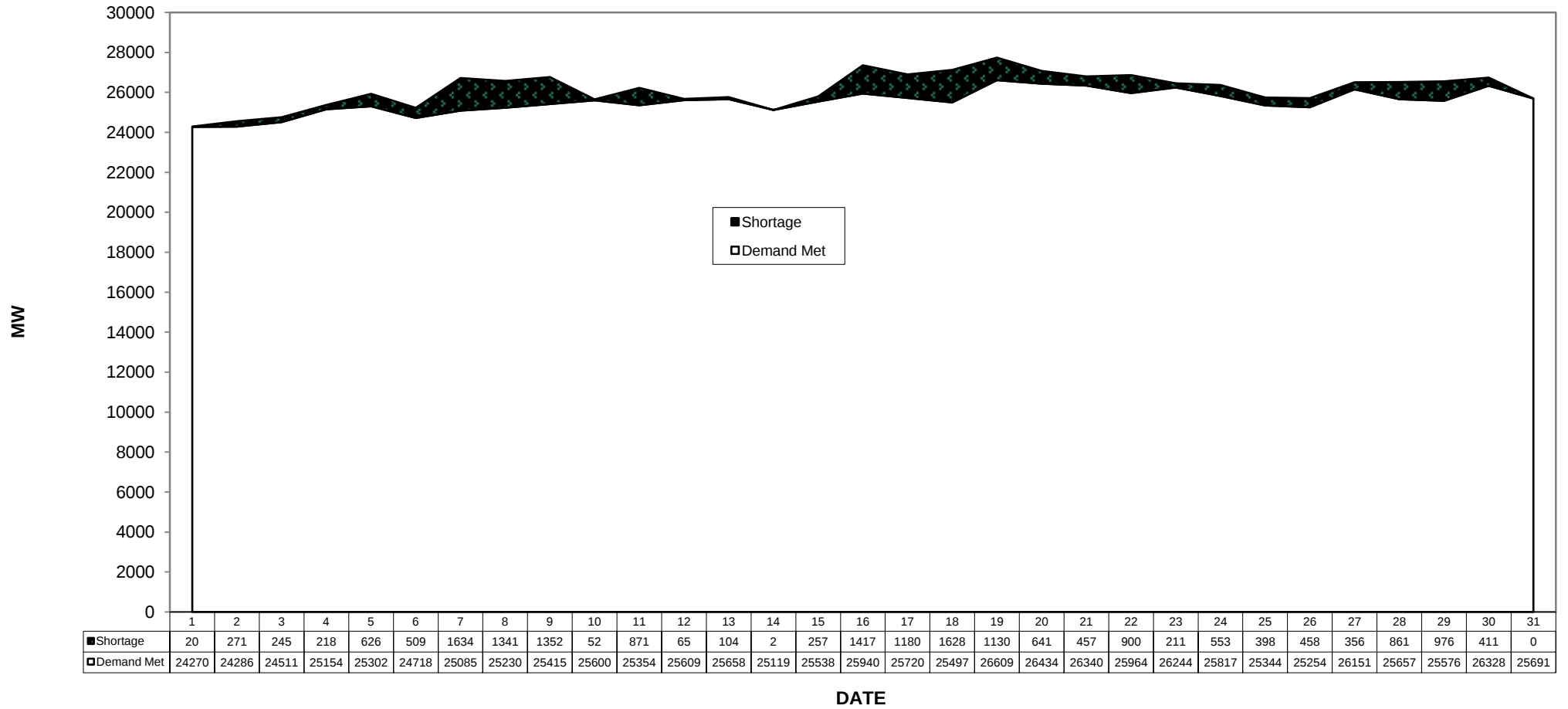
RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)



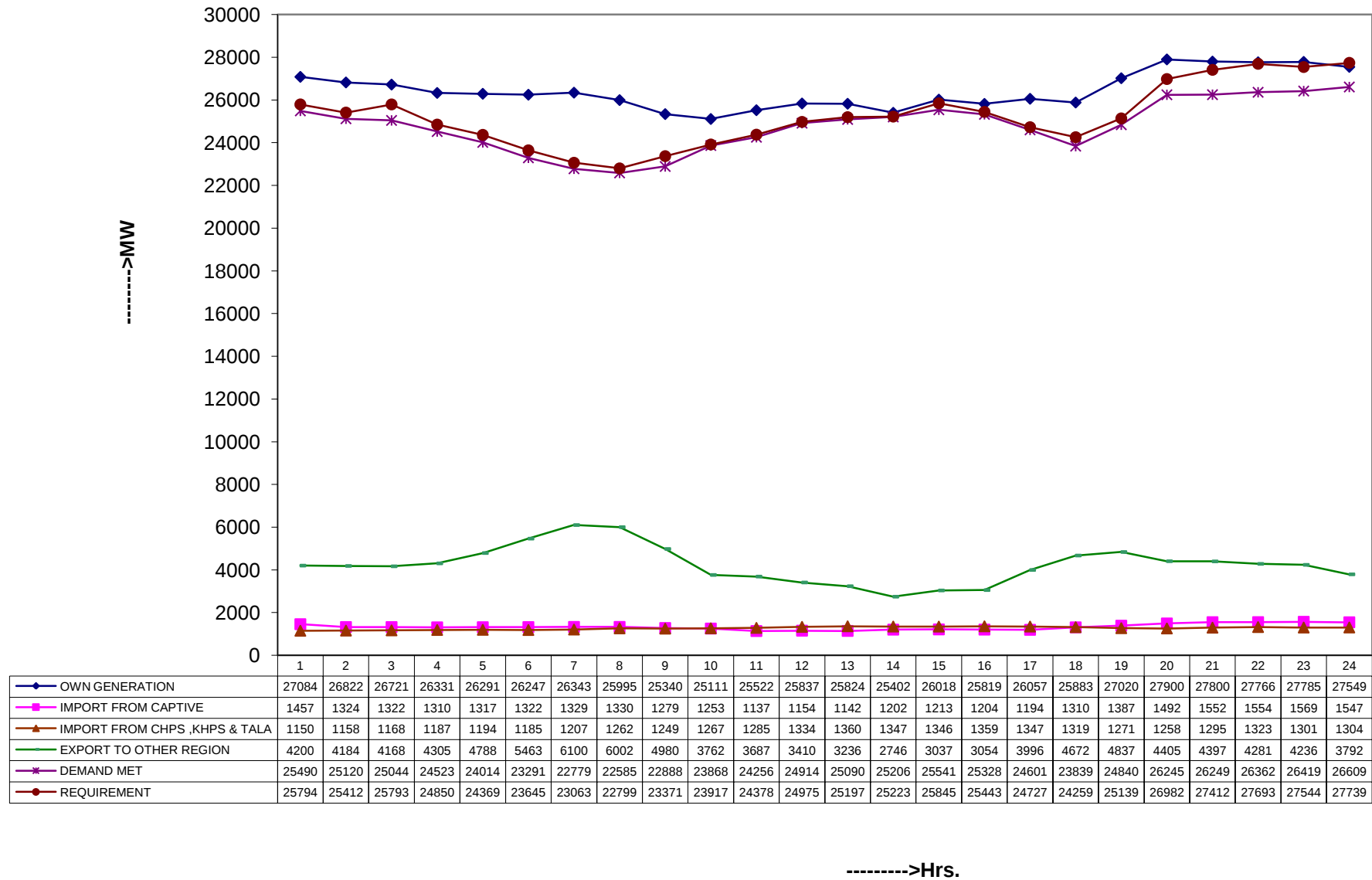
Capacity / Actual Generation Pattern of ER on Peak Day (19-7-2022) at 24.00 hrs.

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

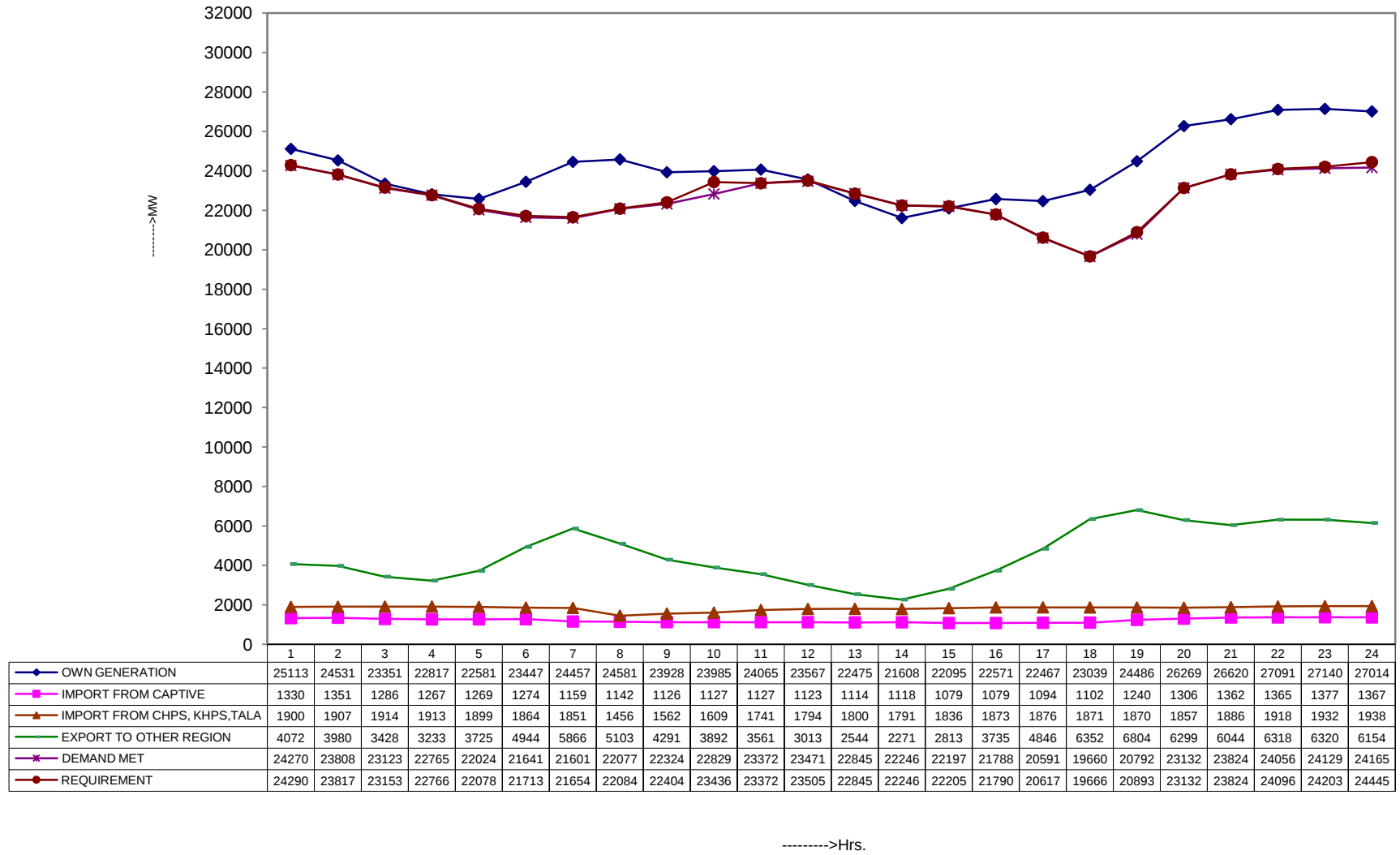
Peak Demand Met / Shortage of Eastern Region For The Month Of JULY'2022



Hourly Load Generation Data OF ER on Regional Peak Day During The Month of JULY'2022 (19-7-2022)

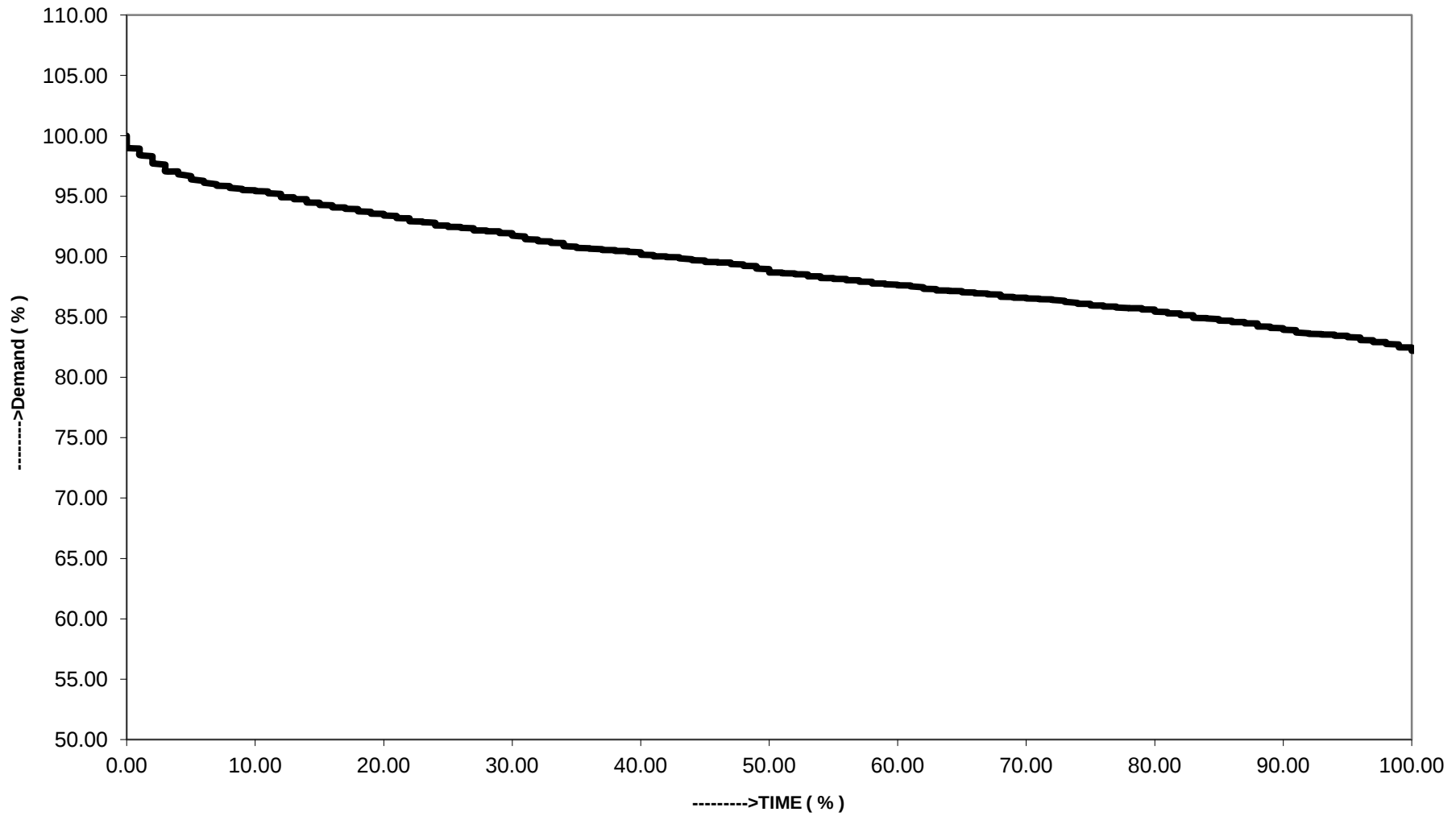


Hourly Load Generation Data of ER On Regional Lean Day During The Month of JULY'2022 (1-7-2022)



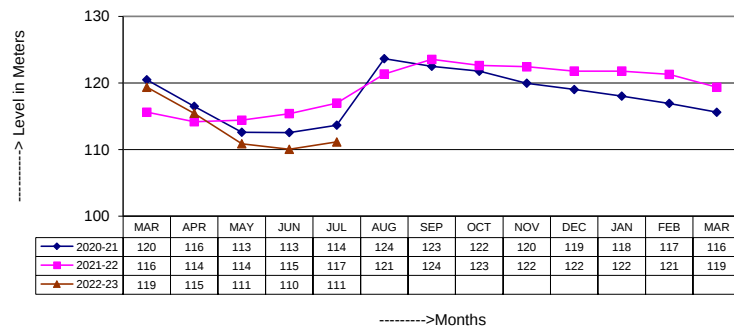
Monthly Load Duration Curve of Eastern Region for JUNE-2022

Maximum Demand met : 26609 MW
Minimum Demand met: 19660 MW

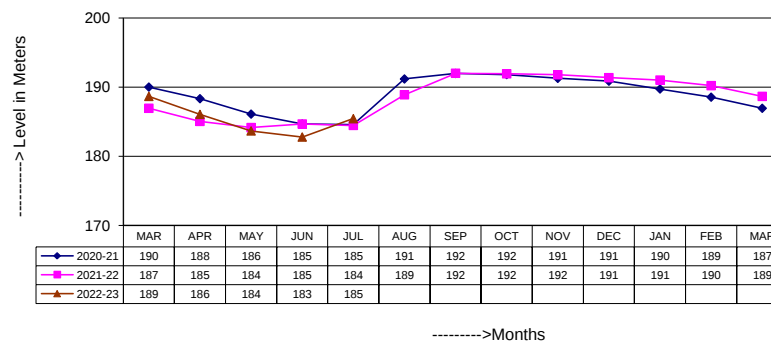


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

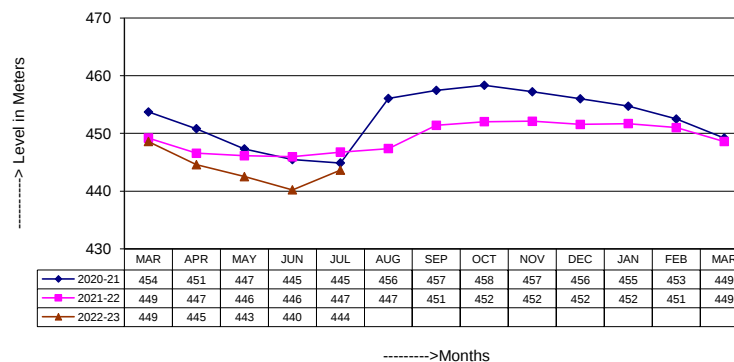
RENGALI RESERVOIR LEVEL



HIRAKUD RESERVOIR LEVEL



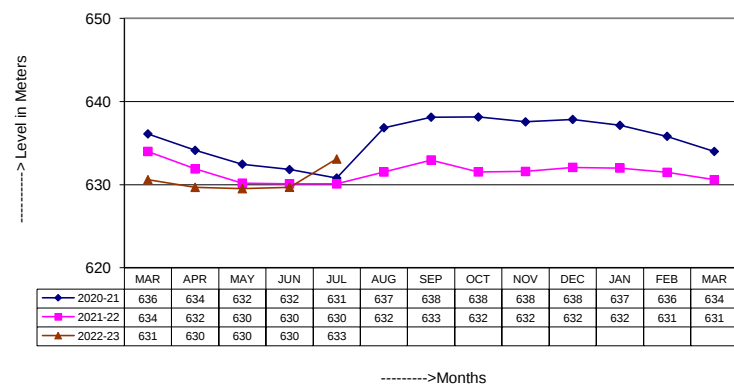
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

