



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

Tel. No.: 033-24239651, 24239658 FAX No.: 033-24239652, 24239653 Web: [www.erpc.gov.in](http://www.erpc.gov.in)

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सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list.

विषय : सितम्बर, 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 September, 2022  
on ERPC website.

श्री/होदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की सितम्बर, 2022 माह की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट  
[www.erpc.gov.in](http://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, 2022 has been uploaded on ERPC website [www.erpc.gov.in](http://www.erpc.gov.in). This is for  
your information please.

संलग्नक : यथोपरी।

Incl. - As above.

भवदीय / Yours faithfully

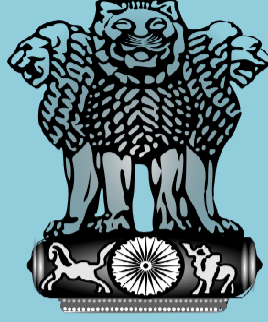
(Sanatan Sarvesh)

सहा. कार्यकारी अभियंता

Asst. Executive Engr

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26. CHIEF ENGINEER, RANGIT POWER STATION, NHPC, P.O. RANGIT NAGAR, SOUTH SIKKIM (FAX NO.03595-259268)
27. ADVISER (COMMERCIAL), ADHUNIK POWER, KOLKATA (FAX NO.: 033-22890285)
28. AGM (OPERATION), MAITHON POWER LTD, DHANBAD (FAX: 08860004758)
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31. SHRI BRAJESH KUMAR PANDE, PLANT HEAD, JITPL. (FAX:011-26139256-65)
32. GM, GMR, KAMALANGA ENERGY LIMITED, ODISHA.



सत्यमेव जयते

Government of India

विद्युत मंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

**EASTERN REGIONAL POWER COMMITTEE**

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

सितंबर-2022

September-2022



14, गोल्फ क्लब रोड, टोलीगंज

14, Golf Club Road, Tollygunge

कोलकाता -700033

Kolkata: 700 033

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## Highlights of Eastern Regional Power System for September- 2022

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of Sep, 2022 was **26650 MW** which is 6.56% more than the Sep, 2021 (25010 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, 2022 was **554.91 MU** (excluding export), which is 14.27% more than the corresponding period of last year (485.60 MU).
- **The Average regional PLF of thermal units during the month is 71.98 %**, which is 4.53% more than the corresponding period of the last year (**67.45%**).  
Bakreswar TPP (WBPDC) registered the highest PLF of 93.86%, followed by Budge-Budge (CESC) 91.45% and Sagardighi TPP (WBPDC) 90.43% during the month of Sep, 2022.
- **Maximum Net generation** was **31509.96 MW** against total **Effective Capacity of 42203.41 MW** (including import from Bhutan). At the time of Regional peak (**26650 MW** on 07.09.2022 at 24.00 hrs.), the generation was **31010 MW**, import from CPP was 1561 MW and Net export was 5921 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 80.76% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and minimum frequency were 50.31 Hz and 49.50 Hz, respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.21 Hz** and **49.66 Hz** respectively (refer Annexure-I).
- At 400 kV voltage level, the **maximum Voltage** recorded was 421 KV at Jeerat 400 KV S/s whereas the minimum voltage recorded 389 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region was 10540 MW (including Nepal and Bangladesh) on 14<sup>th</sup> Sep, 2022 at 07:00 hrs.** Total net energy export during the month was **4261.19 MU (Inc.Transmission loss)** which corresponds to **21.34 %** of Ex-bus total generation 19967.84 MU of Eastern Region.
- The import from CPPs was 940.68 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	7516	243	3122.93
WR	2185	2616	-496.24
SR	3266	527	990.14
NER	1088	842	241.92
BANGLADESH			664.44
NEPAL (via-CTU)			-261.99
Chukha, Kurichu, Tala			0
<b>Total</b>			<b>4261.19</b>
NEPAL by Bihar(NBPDCL)			0.19

**SALIENT FEATURES**

( YEAR TO YEAR COMPARISION )

		Sep-22	SEP-2021	CHANGE	% CHANGE
1) Effective Capacity (end of the Month)					
THERMAL	(MW)	32500	30920	1580	5.11
HYDRO	(MW)	5990	\$ 5990	0	0
DIESEL	(MW)	0	0	0	0
RES	(MW)	1518	1518	0	0
TOTAL	(MW)	40007	38427	1580	4.11
2) Peak Demand ( MW )		26915	25454	1461	5.74
3) Peak Demand Met ( MW )		26650	25010	1640	6.56
4) Shortage ( MW )		266	445	-179	0.00
5) % Shortage		0.99	1.75	-0.76	0.00
6) Average Energy Requirement Per Day ( MU )		558.02	489.41	68.61	14.02
7) Average Energy Availability Per Day ( MU )		554.91	485.60	69.31	14.27
8) Average Shortage Per Day ( MU )		3.11	3.80	-0.69	--
9) % Shortage		0.56	0.78	-0.22	--
10) Net Generation for the Month					
Thermal ( MU )		15574.31	13973.57	1600.74	11.46
Hydro ( MU )		4300.46	* 4013.83	286.63	7.14
RES (MU)		93.07	92.78	0.00	-
Total ( MU )		19967.84	18080.18	1887.66	10.44
11) Generation at the Time of Max. Regional Demand Met ( 07-09-22 at 24.00 Hrs. )					
Thermal ( MW )		23793	22540	1253	5.56
Hydro ( MW )		7118	* 6810	308	4.52
RES( MW )		99	81	18	22.53
Total ( MW )		31010	29431	1579	5.36
12) Inter-Regional Energy Transfer					
Export ( MU )		5019.43	4507.23	512.20	11.36
Import ( MU )		758.23	24.56	733.67	2987.26
Net Exp.(+)/Net Imp.(-) ( MU )		4261.19	4482.68	-221.49	-4.94
13) Import From Captive(MU)		940.68	970.61	-29.93	-3.08
14) Peak Inter Regional Power Transfer					
Max Export ( MW ) on 14-09-22 at 07.00Hrs		10540	10245	295	2.88
Max Import ( MW ) on 25-09-22 at 13.00Hrs		2858	1461	1397	95.65
Max Net Export(+)/Import (-) ( MW )		10540	10177	363	3.56
15) Maximum voltage recorded		421	JEERAT	400 kv s/s	
16) Minimum voltage recorded		389	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 SEP'2022

**A ) Net Average Energy Per Day**

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	123.66	125.36	1.70	1.35
JUVNL	36.54	38.01	1.46	3.85
DVC	71.99	72.00	0.02	0.02
ODISHA	135.14	135.18	0.03	0.02
WBSEDCL	149.94	150.08	0.15	0.10
CESC	35.81	35.82	0.01	0.02
SIKKIM	1.58	1.58	0.00	0.02
<b>REGION</b>	<b>554.91</b>	<b>558.02</b>	<b>3.11</b>	<b>0.56</b>

**B) Peak Demand in MW:**

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	6546	6821	274	4.02
JUVNL	1797	2081	284	13.65
DVC	3298	3298	0	0.00
ODISHA	6438	6438	0	0.00
WBSEDCL	7776	7780	4	0.05
CESC	2073	2077	4	0.2
SIKKIM	102	103	1	0.97
<b>REGION</b>	<b>26650</b>	<b>26915</b>	<b>266</b>	<b>0.99</b>

➤ **DIVERSITY FACTOR : 1.05**

➤ **Regional Peak Demand Met on 7-9-2022 at 24.00 hrs. at 49.95 Hz.**

**CONSTITUENT-WISE PERFORMANCE DATA SEP-2022**

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 (MW)	Gross Peak Demand (MW)
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total						
BSPHCL	0.00	296.00	20.61	316.61	0.00	27.86	0.00	27.86	0.00	268.14	20.61	288.75	0.00	3421.12	3709.87	123.7	6546	6597
JUVNL	54.74	356.02	0.00	410.76	0.01	35.82	0.00	35.83	54.72	320.20	0.00	374.93	33.03	688.26	1096.21	36.5	1797	1851
DVC	57.40	2901.70	0.00	2959.10	0.21	226.35	0.00	226.56	57.19	2675.35	0.00	2732.55	7.91	-580.89	2159.56	72.0	3298	3567
ODISHA(OPGC+OHPC+TTPS)	835.13	999.43	51.27	1885.83	1.42	68.75	0.00	70.17	833.71	930.68	51.27	1815.67	672.46	1566.13	4054.26	135.1	6438	6537
WBPDC+WBSEDCL+DPL	187.47	2718.27	18.20	2923.93	0.00	240.68	0.00	240.68	187.47	2477.59	18.20	2683.25	227.28	1587.56	4498.09	149.9	7776	8118
CESC	0.00	571.92	0.00	571.92	0.00	45.94	0.00	45.94	0.00	525.99	0.00	525.99	0.00	548.36	1074.35	35.8	2073	2144
HEL	0.00	379.37	0.00	379.37	0.00	30.34	0.00	30.34	0.00	349.03	0.00	349.03	0.00	-349.03				
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	45.33	47.33	1.6	102	102
NTPC	0.00	6610.04	0.99	6611.03	0.00	458.01	0.00	458.01	0.00	6152.03	0.99	6153.02	0.00	-6153.02				
MPL	0.00	665.19	0.00	665.19	0.00	37.38	0.00	37.38	0.00	627.81	0.00	627.81	0.00	-627.81				
APNRL	0.00	302.63	0.00	302.63	0.00	28.54	0.00	28.54	0.00	274.09	0.00	274.09	0.00	-274.09				
GMR	0.00	321.38	0.00	321.38	0.00	23.03	0.00	23.03	0.00	298.34	0.00	298.34	0.00	-298.34				
JITPL	0.00	722.46	0.00	722.46	0.00	47.40	0.00	47.40	0.00	675.06	0.00	675.06	0.00	-675.06				
NHPC (Inc TLDP= 200.82 MU)	588.68	0.00	0.00	588.68	0.00	0.00	0.00	0.00	588.68	0.00	0.00	588.68	0.00	-588.68	0.00			
CHUZACHEN HPS	76.67	0.00	0.00	76.67	0.00	0.00	0.00	0.00	76.67	0.00	0.00	76.67	0.00	-76.67	0.00			
DIKCHU HPS	75.94	0.00	0.00	75.94	0.00	0.00	0.00	0.00	75.94	0.00	0.00	75.94	0.00	-75.94	0.00			
JORHANG HPS	67.39	0.00	0.00	67.39	0.00	0.00	0.00	0.00	67.39	0.00	0.00	67.39	0.00	-67.39	0.00			
TASHIDING HPS	77.16	0.00	0.00	77.16	0.00	0.00	0.00	0.00	77.16	0.00	0.00	77.16	0.00	-77.16	0.00			
TEESTA-III HPS	875.29	0.00	0.00	875.29	0.00	0.00	0.00	0.00	875.29	0.00	0.00	875.29	0.00	-875.29	0.00			
RONGNICHU HEP	73.31	0.00	0.00	73.31	0.00	0.00	0.00	0.00	73.31	0.00	0.00	73.31	0.00	-73.31	0.00			
CHPC(Birpara Receipt)	260.91	0.00	0.00	260.91	0.00	0.00	0.00	0.00	260.91	0.00	0.00	260.91	0.00	-260.91	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	534.91	0.00	0.00	534.91	0.00	0.00	0.00	0.00	534.91	0.00	0.00	534.91	0.00	-534.91	0.00			
DAGACHU HPS	62.49	0.00	0.00	62.49	0.00	0.00	0.00	0.00	62.49	0.00	0.00	62.49	0.00	-62.49	0.00			
Mangdechhu HEP	474.60	0.00	0.00	474.60	0.00	0.00	0.00	0.00	474.60	0.00	0.00	474.60	0.00	-474.60	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														7.66	7.66			
<b>Total</b>	<b>4302.10</b>	<b>16844.41</b>	<b>93.07</b>	<b>21239.58</b>	<b>1.64</b>	<b>1270.10</b>	<b>0.00</b>	<b>1271.74</b>	<b>4300.46</b>	<b>15574.31</b>	<b>93.07</b>	<b>19967.84</b>	<b>940.68</b>	<b>-4261.19</b>	<b>16647.32</b>	<b>554.9</b>	<b>26650</b>	<b>27669</b>



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	<b>542.68</b>	<b>555.15</b>	<b>12.46</b>	<b>2.25</b>	<b>49.93</b>
MAY	429.83	430.89	1.06	0.25	49.99	<b>519.86</b>	<b>524.87</b>	<b>5.02</b>	<b>0.96</b>	<b>49.99</b>
JUNE	462.07	462.84	0.77	0.17	49.99	<b>547.72</b>	<b>553.79</b>	<b>6.07</b>	<b>1.10</b>	<b>49.98</b>
JULY	498.44	500.02	1.57	0.31	50.00	<b>569.64</b>	<b>576.81</b>	<b>7.17</b>	<b>1.24</b>	<b>49.99</b>
AUGUST	501.37	505.13	3.76	0.74	49.99	<b>556.08</b>	<b>563.58</b>	<b>7.50</b>	<b>1.33</b>	<b>49.98</b>
SEPTEMBER	485.60	489.40	3.80	0.78	50.00	<b>554.91</b>	<b>558.02</b>	<b>3.11</b>	<b>0.56</b>	<b>49.99</b>
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	<b>25690</b>	<b>25735</b>	<b>45</b>	<b>0.17</b>	<b>49.93</b>
MAY	24191	24191	0	0.00	49.99	<b>25070</b>	<b>25369</b>	<b>299</b>	<b>1.18</b>	<b>49.99</b>
JUNE	23494	23521	28	0.12	49.99	<b>26196</b>	<b>26730</b>	<b>534</b>	<b>2.00</b>	<b>49.98</b>
JULY	25145	26019	874	3.36	50.00	<b>26609</b>	<b>27739</b>	<b>1130</b>	<b>4.07</b>	<b>49.99</b>
AUGUST	24157	24236	79	0.33	49.99	<b>27218</b>	<b>28275</b>	<b>1057</b>	<b>3.74</b>	<b>49.98</b>
SEPTEMBER	25010	25454	445	1.75	50.00	<b>26650</b>	<b>26915</b>	<b>266</b>	<b>0.99</b>	<b>49.99</b>
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 SEP -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	0.00	0.00	33.38	24.69
	Thermal	Barauni (U# 8)	250.00	250.00	139.65	126.95	794.14	722.48
		Barauni (U# 9)	250.00	250.00	156.35	141.18	886.65	798.72
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	0.00	0.00
		Thermal Total	940.00	930.00	296.00	268.14	1714.18	1545.89
	RES		354.91	354.91	20.61	20.61	126.02	126.02
		<b>Total BIHAR</b>	<b>1294.91</b>	<b>1284.91</b>	<b>316.61</b>	<b>288.75</b>	<b>1840.19</b>	<b>1671.91</b>
<b>JHARKHAND</b>								
TVNL	Thermal	TVNL	420.00	420.00	210.78	187.69	1305.10	1162.69
TPCL		JOJOBERA	240.00	240.00	145.24	132.51	455.12	415.61
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	54.74	54.72	91.20	91.16
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		<b>Total</b>	<b>190.41</b>	<b>190.41</b>	<b>54.74</b>	<b>54.72</b>	<b>91.20</b>	<b>91.16</b>
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.73	0.00	-3.97
		Chandrapura( U7 # 8)	500.00	500.00	287.87	257.54	1784.03	1605.03
		Durgapur(4)	210.00	210.00	0.00	0.00	135.12	111.48
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	619.65	551.69	4267.39	3803.86
		Mejia( U # 7,8)	1000.00	1000.00	461.66	433.04	3589.44	3386.37
		Bokaro-A(1)	500.00	500.00	295.30	278.18	1874.84	1767.53
		Durgapur STPS (U#1,2)	1000.00	1000.00	368.12	344.82	3324.26	3137.59
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	400.22	370.50	3049.93	2850.86
	Koderma STPS (U#1,2)	1000.00	1000.00	468.89	440.32	3503.00	3299.94	
		<b>Total Thermal</b>	<b>6750.00</b>	<b>6750.00</b>	<b>2901.70</b>	<b>2675.35</b>	<b>21528.02</b>	<b>19958.69</b>
	Hydro	Maithon (U#1,2,3)	63.20	63.20	20.71	20.68	50.14	49.95
		Panchet (U#1,2)	80.00	80.00	36.69	36.53	82.60	81.86
		Tilaiya (U#1,2)	4.00	4.00	0.00	0.0	0.00	-0.1
<b>Hydro Total</b>		<b>147.20</b>	<b>147.20</b>	<b>57.40</b>	<b>57.19</b>	<b>132.74</b>	<b>131.74</b>	
	<b>Total DVC</b>	<b>6897.20</b>	<b>6897.20</b>	<b>2959.10</b>	<b>2732.55</b>	<b>21660.76</b>	<b>20090.43</b>	
<b>WEST BENGAL</b>								
WBPDCL	Thermal	Bandel TPS	320.00	275.00	144.74	129.75	856.23	768.30
		Santalidih TPS(U#5&6)	500.00	500.00	226.82	206.56	1871.63	1713.97
		Kolaghat TPS	840.00	840.00	417.89	369.66	2147.51	1890.71
		Bakreswar TPP	1050.00	1050.00	709.58	648.26	4029.15	3676.31
		Sagardighi TPP	1600.00	1600.00	1041.72	963.41	5727.45	5288.99
		DPPS (300+250 )	<b>550.00</b>	<b>550.00</b>	<b>177.51</b>	<b>159.94</b>	<b>1214.96</b>	<b>1090.70</b>
		<b>Thermal Total</b>	<b>4860.00</b>	<b>4815.00</b>	<b>2718.27</b>	<b>2477.59</b>	<b>15846.93</b>	<b>14428.99</b>
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.08	23.08	117.29	117.29
		Rammam (4x12.73)	51.00	51.00	37.23	37.23	157.14	157.14
		Teesta C.F. (3x3x7.5)	67.50	67.50	11.51	11.51	63.24	63.24
		Purulia PSS (4x225)	900.00	900.00	115.65	115.65	704.69	704.69
		<b>Total Hydro</b>	<b>1053.50</b>	<b>1053.50</b>	<b>187.47</b>	<b>187.47</b>	<b>1042.37</b>	<b>1042.37</b>
	RES		500.76	500.76	18.20	18.20	97.39	97.39

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

ORGANISATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy	Net Energy	Cummulative Gross Energy Generation upto Current Month	Cummulative Net Energy Generation upto Current Month
					Generation in MU	Generation in MU	( 2022-23) 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	78.07	71.28	534.42	489.30
		Budge-Budge (3x250)	750.00	750.00	493.85	454.71	2813.95	2587.70
		Total CESC	1125.00	1125.00	571.92	525.99	3348.37	3076.99
HEL	Thermal	HEL	600.00	600.00	379.37	349.03	2270.12	2089.93
		Total West Bengal	8139.26	8094.26	3875.23	3558.27	22605.18	20735.66
OPGC	Thermal	IB TPS	420.00	420.00	197.01	172.12	1237.31	1086.41
		IB TPS U#3(660 MW)	660.00	660.00	390.79	369.43	2305.17	2172.74
		IB TPS U#4(660 MW)	660.00	660.00	411.63	389.13	2009.11	1896.20
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	189.24	188.94	594.32	592.86
		Hirakud-II (Chiplima)	72.00	72.00	43.90	43.79	195.01	194.48
		Balimela (6x60+2x75)	510.00	510.00	67.33	66.80	672.18	668.23
		Rengali (5x50)	250.00	250.00	143.62	143.50	438.90	438.29
		Upper Kolab (4x80)	320.00	320.00	43.05	42.90	201.35	200.69
		Indravati HPS (4x150)	600.00	600.00	328.92	328.70	660.80	653.01
		Mckd.(Odisha drawal)	57.38	57.38	19.07	19.07	114.41	114.41
		Total Hydro	2084.88	2084.88	835.13	833.71	2876.98	2861.98
		RES	539.57	539.57	51.27	51.27	327.79	327.79
		Total Odisha	4364.45	4364.45	1885.83	1815.67	8756.36	8345.13
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	10.00	10.00
NTPC		MTPS Stg-II	390.00	390.00	254.28	229.59	1390.01	1252.17
		FSTPP# I&II ( 3x200+2x500)	1600.00	1600.00	892.59	819.77	5132.14	4709.30
		FSTPP (U# 6)	500.00	500.00	168.48	157.38	1089.21	1016.35
		KhSTPP (4x210+3x500)	2340.00	2340.00	1192.64	1104.94	8174.87	7587.09
		TSTPP (2x500)	1000.00	1000.00	341.83	310.44	3431.05	3169.10
		BARH STPS II (2X660)	1320.00	1320.00	755.66	712.02	4961.40	4692.39
		BARH STPS I (1X660)	660.00	660.00	322.80	302.25	1936.48	1810.88
		BRBCL # 1,2,3,4(4X250 MW)	1000	1000	582.14	536.81	3450.73	3182.40
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# I&2	1980.00	1980.00	1169.25	1107.86	6211.26	5899.19
		NSTPS infirm			0.00	0.00	75.63	69.22
		DSTPP #1&2	1600.00	1600.00	930.37	870.97	5151.45	4819.86
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		Total NTPC	12390.00	12390.00	6610.04	6152.03	41004.23	38207.95
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	41.57	41.57
Teesta (3x170)	510.00			510.00	353.27	353.27	2003.11	2003.11
TLDP( 4x33+4x40) for WBSEDCL	292.00			292.00	193.84	193.84	985.52	985.52
Total NHPC	862.00			862.00	588.68	588.68	3208.94	3208.94
MPL (U#1&2)	1050.00			1050.00	665.19	627.81	4030.41	3804.15
APNRL (U#1,2)	540.00			540.00	302.63	274.09	1919.97	1748.02
GMR (2x350)	700.00			700.00	321.38	298.34	2149.91	1995.25
JITPL (2X600)	1200.00			1200.00	722.46	675.06	3650.65	3433.81
CHUZACHEN** (2x55)	110.00			110.00	76.67	76.67	389.17	389.17
JORETHANG (2x48)	96.00			96.00	67.39	67.39	310.83	310.83
TEESTA URJA St III (6x200)	1200.00			1200.00	875.29	875.29	4467.19	4467.19
Tashilding (2x48.5)	97.00			97.00	77.16	77.16	329.41	329.41
DICKCHU (2x48)	96.00			96.00	75.94	75.94	413.99	413.99
RONGNICHU HEP (2x56.5)					73.31	73.31	329.13	329.13
TALCHER SOLAR	10.00			10.00	0.99	0.99	6.35	6.35
Total Thermal (E.R)		32555.00	32500.00	16844.41	15574.31	104774.59	97023.33	
Total Hydro (E.R)		5989.58	5989.58	2969.19	2967.55	13591.95	13575.92	
Total RES		1517.83	1517.83	93.07	93.07	567.54	567.54	
EASTERN REGIONAL		<b>TOTAL (E.R)</b>	40062.41	40007.41	19906.67	18634.93	118934.09	111166.79
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	260.91	260.91	1254.40	1254.40
		Kurichu (4x15)	60.00	60.00	0.00	0.00	9.91	9.91
		TALA (6x170)	1020.00	1020.00	534.91	534.91	2098.55	2098.55
		DAGACHU (2x63)	126.00	126.00	62.49	62.49	277.11	277.11
		MANGDECHU(4x180 )	720.00	720.00	474.60	474.60	2105.88	2105.88
		<b>Grand Total</b>	42348.41	42203.41	21239.58	19967.84	124679.95	116912.65

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

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 ( 2022-23 ) in MU	Cummulative PLF upto Current Month ( % )
BIHAR	NTPC	Barauni (U# 6,7 )	220.00	210.00	0.00	0.00	33.38	1.40
	Thermal	Barauni (U# 8)	250.00	250.00	139.65	77.58	794.14	72.33
		Barauni (U# 9)	250.00	250.00	156.35	86.86	886.65	80.75
	(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	296.00	44.21	1714.18	41.47
			RES	354.91	354.91	20.61		126.02
		<b>Total BIHAR</b>	<b>1294.91</b>	<b>1284.91</b>	<b>316.61</b>		<b>1840.19</b>	
<b>JHARKHAND</b>								
TVNL	Thermal	TVNL	420.00	420.00	210.78	69.70	1305.10	70.75
		JOJOBBERA	240.00	240.00	145.24	84.05	455.12	85.88
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	54.74		91.20	
	RES		60.41	60.41	0.00		0.00	
		<b>Total</b>	<b>190.41</b>	<b>190.41</b>	<b>54.74</b>		<b>91.20</b>	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura( U7 # 8)	500.00	500.00	287.87	79.96	1784.03	81.24
		Durgapur(4)	210.00	210.00	0.00	0.00	135.12	14.65
		Mezla(1,2,3,4,5,6)	1340.00	1340.00	619.65	64.23	4267.39	72.51
		Mejia( U # 7,8)	1000.00	1000.00	461.66	64.12	3589.44	81.73
		Bokaro-A(1)	500.00	500.00	295.30	82.03	1874.84	85.38
		Durgapur STPS (U#1,2)	1000.00	1000.00	368.12	51.13	3324.26	75.69
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	400.22	46.32	3049.93	57.87
		<b>Koderma STPS (U#1,2)</b>	<b>1000.00</b>	<b>1000.00</b>	<b>468.89</b>	<b>65.12</b>	<b>3503.00</b>	<b>79.76</b>
		<b>Total Thermal</b>	<b>6750.00</b>	<b>6750.00</b>	<b>2901.70</b>	<b>59.71</b>	<b>21528.02</b>	<b>72.62</b>
	Hydro	Maithon (U#1,2,3)	63.20	63.20	20.71		50.14	
		Panchet (U#1,2)	80.00	80.00	36.69		82.60	
		Tilaiya (U#1,2)	4.00	4.00	0.00		0.00	
		<b>Hydro Total</b>	<b>147.20</b>	<b>147.20</b>	<b>57.40</b>		<b>132.74</b>	
		<b>Total DVC</b>	<b>6897.20</b>	<b>6897.20</b>	<b>2959.10</b>		<b>21660.76</b>	
<b>WEST BENGAL</b>								
WBPDC	Thermal	Bandel TPS	320.00	275.00	144.74	73.10	856.23	70.89
		Santalidih TPS(U#5&6)	500.00	500.00	226.82	63.00	1871.63	85.23
		Kolaghat TPS	840.00	840.00	417.89	69.10	2147.51	58.21
		Bakreswar TPP	1050.00	1050.00	709.58	93.86	4029.15	87.37
		Sagardighi TPP	1600.00	1600.00	1041.72	90.43	5727.45	81.50
		DPPS (300+250 )	550.00	550.00	177.51	44.83	1214.96	50.30
			<b>Thermal Total</b>	<b>4860.00</b>	<b>4815.00</b>	<b>2718.27</b>	<b>78.41</b>	<b>15846.93</b>
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.08		117.29	
		Rammam (4x12.73)	51.00	51.00	37.23		157.14	
		Teesta C.F. (3x3x7.5)	67.50	67.50	11.51		63.24	
		Purulia PSS (4x225)	900.00	900.00	115.65		704.69	
			<b>Total Hydro</b>	<b>1053.50</b>	<b>1053.50</b>	<b>187.47</b>		<b>1042.37</b>
	RES	500.76	500.76	18.20		97.39		
DE- COMMISSIONED	<p>1.WBPDC, Bandel TPS Unit #1 ( IC=1X60 MW, EC=1X60 MW) decommissioned from 21.02.2022.</p> <p>2.WBPDC, Kolaghat TPS Unit #1,2 ( IC=2X210 MW, EC=2X210 MW) decommissioned from 21.02.2022.</p> <p>3.BIHAR, Muzaffarpur TPS Unit(KBUNL) #1,2 (IC=2X110 MW, EC=2X110 MW) decommissioned from 08.09.2021.</p> <p>4.NTPC, TTPS Odisha All Six units(4X62.5+2X110) decommissioned from 01.04.2021</p> <p>5.DVC, BTPS(B) Unit #3 (210 MW) de-commissioned from 01.04.2021</p> <p>6. DPL U#6 (110 MW) Decommissioned from 28.01.20 as per CEA.</p> <p>7. CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA.</p>							
COMMISSIONED	<p>1.NTPC NPGCL U#3 (660 MW) COD from 01.06.2022</p> <p>2.NTPC Nabinagar TPP(BRBCL) U#4 (250 MW) COD from 01.12.2021</p> <p>3.NTPC BARAUNI TPP U#9 (250 MW) COD from 01.11.2021</p> <p>4.NTPC Barh St-1, U#1(660 MW) COD from 12.11.2021</p> <p>5.NSTPS U#2 (660 MW) COD from 23.07.2021</p> <p>6.NTPC DARLIPALI STPS U#2 (800 MW) COD 01.09.2021</p> <p>7.DARLIPALI S TPS U#1(800 MW) COD 01.03.2020</p> <p>8.BARAUNI TPS U#1(250 MW) COD 01.03.2020</p>							

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

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 ( 2022-23) 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	78.07	80.32	534.42	90.13
		Budge-Budge (3x250)	750.00	750.00	493.85	91.45	2813.95	85.43
		<b>Total CESC</b>	<b>1125.00</b>	<b>1125.00</b>	<b>571.92</b>	<b>70.61</b>	<b>3348.37</b>	<b>67.77</b>
HEL	Thermal	HEL	600.00	600.00	379.37	87.82	2270.12	86.15
		<b>Total West Bengal</b>	<b>8139.26</b>	<b>8094.26</b>	<b>3875.23</b>		<b>22605.18</b>	
OPGC	Thermal	IB TPS	420.00	420.00	197.01	65.15	1237.31	67.08
		IB TPS U#3(660 MW)	660.00	660.00	390.79	82.24	2305.17	79.52
		IB TPS U#4(660 MW)	660.00	660.00	411.63	86.62	2009.11	69.31
OHPC	Hydro	Hirakud-I (Buria)	275.50	275.50	189.24		594.32	
		Hirakud-II (Chiplima)	72.00	72.00	43.90		195.01	
		Balimela (6x60+2x75)	510.00	510.00	67.33		672.18	
		Rengali (5x50)	250.00	250.00	143.62		438.90	
		Upper Kolab (4x80)	320.00	320.00	43.05		201.35	
		Indravati HPS (4x150)	600.00	600.00	328.92		660.80	
		Mckd.(Odisha drawal)	57.38	57.38	19.07		114.41	
		<b>Total Hydro</b>	<b>2084.88</b>	<b>2084.88</b>	<b>835.13</b>		<b>2876.98</b>	
		RES	539.57	539.57	51.27		327.79	
		<b>Total Odisha</b>	<b>4364.45</b>	<b>4364.45</b>	<b>1885.83</b>		<b>8756.36</b>	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		10.00	
NTPC		MTSP Stg-II	390.00	390.00	254.28	90.56	1390.01	81.15
		FSTPP# I&II ( 3x200+2x500)	1600.00	1600.00	892.59	77.48	5132.14	73.03
		FSTPP (U# 6)	500.00	500.00	168.48	46.80	1089.21	49.60
		KhSTPP (4x210+3x500)	2340.00	2340.00	1192.64	70.79	8174.87	79.54
		TSTPP (2x500)	1000.00	1000.00	341.83	47.48	3431.05	78.12
		BARH STPS II (2X660)	1320.00	1320.00	755.66	79.51	4961.40	85.58
		BARH STPS I (1X660)	660.00	660.00	322.80	67.93	1936.48	66.80
		BRBCL # 1,2,3,4(4X250 MW)	1000.00	1000.00	582.14	80.85	3450.73	78.57
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# I&2	1980.00	1980.00	1169.25	82.02	6211.26	80.35
		NSTPS infirm					75.63	
		DSTPP #1&2	1600.00	1600.00	930.37	80.76	5151.45	73.31
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		<b>Total NTPC</b>	<b>12390.00</b>	<b>12390.00</b>	<b>6610.04</b>	<b>74.10</b>	<b>41004.23</b>	<b>76.57</b>
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	41.57		220.32	
		Teesta (3x170)	510.00	510.00	353.27		2003.11	
		TLDP( 4x33+4x40) for WBSEDCL	292.00	292.00	193.84		985.52	
		<b>Total NHPC</b>	<b>862.00</b>	<b>862.00</b>	<b>588.68</b>		<b>3208.94</b>	
	Thermal	MPL (U#1&2)	1050.00	1050.00	665.19	87.99	4030.41	87.40
		APNRL (U#1,2)	540.00	540.00	302.63	77.84	1919.97	80.95
		GMR (2x350)	700.00	700.00	321.38	63.76	2149.91	69.93
		JITPL (2X600)	1200.00	1200.00	722.46	83.62	3650.65	69.27
		CHUZACHEN** (2x55)	110.00	110.00	76.67		389.17	
		JORETHANG (2x48)	96.00	96.00	67.39		310.83	
		TEESTA URJA St III (6x200)	1200.00	1200.00	875.29		4467.19	
		Tashilding (2x48.5)	97.00	97.00	77.16		329.41	
		DICKCHU (2x48)	96.00	96.00	75.94		413.99	
		RONGNICHU HEP (2x56.5)			73.31		329.13	
		TALCHER SOLAR	10.00	10.00	0.99		6.35	
		<b>Total Thermal (E.R)</b>	<b>32555.00</b>	<b>32500.00</b>	<b>16844.41</b>	<b>71.98</b>	<b>104774.59</b>	<b>74.11</b>
EASTERN REGIONAL		<b>Total Hydro (E.R)</b>	<b>5989.58</b>	<b>5989.58</b>	<b>2969.19</b>		<b>13591.95</b>	
		<b>Total RES</b>	<b>1517.83</b>	<b>1517.83</b>	<b>93.07</b>		<b>567.54</b>	
		<b>TOTAL (E.R)</b>	<b>40062.41</b>	<b>40007.41</b>	<b>19906.67</b>		<b>118934.09</b>	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	260.91		1254.40	
		Kurichu (4x15)	60.00	60.00	0.00		9.91	
		TALA (6x170)	1020.00	1020.00	534.91		2098.55	
		DAGACHU (2x63)	126.00	126.00	62.49		277.11	
		MANGDECHU(4x180 )	720.00	720.00	474.60		2105.88	
<b>Grand Total</b>	<b>42348.41</b>	<b>42203.41</b>	<b>21239.58</b>		<b>124679.95</b>			

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK DURING THE MONTH OF SEP'2022 (7-9-2022)

Date 7-Sep-22  
Time 24.00 Hrs.  
Frequency 49.95 Hz.

System/State	Installed	Effective				(All Fig. in MW)
	Capacity	Capacity	Hydro	Thermal	RES	Net Gen Total
BSPHCL	1295	1285	0	459	0	459
JUVNL	850	850	107	486	0	593
DVC	6897	6897	105	4081	0	4185
ODISHA	4364	4364	1668	1370	99	3137
WBSEDCL	5864	5819	778	3359	0	4137
TLDP	292	292	177	0	0	177
HEL HALDIA	600	600	0	270	0	270
CESC	1125	1125	0	755	0	755
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	12390	12390	0	10109	0	10109
NHPC	570	570	580	0	0	580
CHUKHA	360	270	349	0	0	349
KURICHU	60	60	38	0	0	38
TALA	1020	1020	732	0	0	732
MPL	1050	1050	0	984	0	984
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	482	0	482
Kamalganga (GMR)	700	700	0	321	0	321
JITPL	1200	1200	0	1117	0	1117
RONGNICHU HEP (2x56.5)	113	113	112	0	0	112
Chuzachen	110	110	101	0	0	101
Jorethang	96	96	100	0	0	100
TEESTA URJA St III	1200	1200	1306	0	0	1306
Tashiding	97	97	110	0	0	110
DICKCHU	96	96	108	0	0	108
<u>Daghachu</u>	126	126	74	0	0	74
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	673	0	0	673
<u>Total</u>	42348	42203	7118	23793	99	31010
Import From Captive:						1561
Export To:						
NER						379
SR						328
WR						-1203
NR						5817
Bangladesh						915
Nepal						-315
<b>Total</b>						<b>5921</b>
➤ <b>Regional Net Peak Demand Met ( MW ) :</b>						<b>26650</b>

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

**Hourly Load Generation Data OF ER on Regional Peak Day During The Month of SEP'2022 (7-9-2022)**

( All Figures in MW)

Hrs.	Generation			Import from Captive	Net Import From Hydro of Bhutan	Net Export to other region	Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total							
1	4398	23323	27721	1459	1971	6075	25076	9	123	25207
2	3874	23641	27515	1392	1974	6293	24586	86	0	24672
3	3895	23590	27485	1294	1966	6494	24252	15	0	24266
4	3875	23602	27477	1287	1970	6568	24166	13	3	24182
5	3891	23648	27539	1262	1968	6950	23818	56	3	23877
6	3941	23637	27578	1329	1931	8152	22686	42	360	23088
7	3901	23636	27537	1372	1909	9038	21780	116	99	21995
8	3882	23521	27404	1328	1920	8883	21769	32	15	21817
9	3966	23552	27518	1306	1919	8171	22572	-16	26	22583
10	3985	23558	27543	1124	1932	7389	23209	-12	25	23222
11	4154	23478	27632	1085	1964	7062	23618	6	10	23634
12	4050	23164	27214	1105	1959	6749	23528	39	2	23570
13	3945	23465	27410	1110	1973	6975	23518	35	49	23602
14	3906	23360	27265	1107	1972	7023	23321	-24	3	23324
15	4007	23482	27489	1159	1952	7136	23464	10	2	23476
16	4010	23644	27654	1290	1963	7155	23752	25	5	23782
17	3994	23789	27783	1301	1933	7558	23460	8	115	23583
18	3899	23716	27615	1418	1927	7961	22998	24	517	23540
19	4903	23834	28737	1426	1891	6595	25459	60	909	26427
20	4997	23972	28970	1489	1904	5967	26394	44	537	26975
21	4994	23970	28964	1525	1931	6267	26153	11	392	26556
22	5062	23951	29013	1544	1949	5996	26510	14	120	26644
23	5075	23879	28954	1559	1962	5980	26495	28	432	26955
24	5352	23793	29144	1561	1866	5921	26650	47	219	26915

**Hourly Load Generation Data of ER On Regional Lean Day During The Month of SEP'2022 (18-9-2022)**

( All Figures in MW )

Hrs.	Generation			Import from Captive	Net Import From Hydro of Bhutan	Net Export to other region	Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total							
1	4489	21115	25604	1355	1978	6527	22410	2	0	22412
2	4430	20749	25179	1353	1990	6610	21912	-2	0	21912
3	4289	20004	24293	1350	1987	6225	21406	-6	0	21406
4	4086	19805	23891	1339	1982	5943	21269	0	0	21269
5	4076	20649	24725	1324	1978	7039	20987	4	0	20991
6	4109	21080	25189	1346	1962	7987	20509	-4	0	20509
7	4018	20951	24969	1363	1952	8508	19776	-9	0	19776
8	4121	20922	25043	1356	1942	8340	20001	0	2	20003
9	4002	19736	23738	1361	1933	6575	20457	4	2	20462
10	4234	18275	22509	1344	1935	4719	21068	7	2	21077
11	4223	17978	22201	1108	1947	3961	21295	19	16	21330
12	4399	17863	22262	1115	1944	3786	21534	21	74	21629
13	4226	17584	21810	1124	1938	3195	21677	-8	120	21789
14	4226	17570	21796	1166	1943	2798	22107	-10	0	22107
15	4150	17619	21769	1142	1942	2902	21951	-4	0	21952
16	4172	18308	22480	1144	1903	3598	21930	-8	0	21930
17	4107	19827	23934	1144	1872	5180	21770	-2	0	21770
18	4213	21041	25254	1132	1845	6529	21703	2	80	21785
19	5067	21512	26579	1299	1811	5939	23750	37	501	24289
20	4858	21561	26419	1478	1819	5875	23841	38	520	24398
21	5015	21615	26630	1469	1842	5486	24454	2	170	24626
22	5036	21448	26484	1390	1845	5322	24398	34	170	24602
23	5010	21106	26116	1332	1854	4731	24572	-6	233	24798
24	4693	21031	25723	1306	1862	4567	24324	-2	292	24614

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

FOR THE MONTH OF SEP'2022

**POWER CUT / RESTRICTIONS**

<b>BSPHCL</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 49.99 MU
<b>JUVNL</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 43.68 MU
<b>DVC</b>	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.00 MU
<b>ODISHA</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 0.00 MU
<b>WEST BENGAL</b>	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 3.25 MU

**POWER SUPPLY TO AGRICULTURAL SECTOR**

<b>STATE</b>	<b>HOURS OF SUPPLY ( AVERAGE / DAY )</b>
<b>BIHAR</b>	18 HRS.00 MINS.
<b>JHARKHAND</b>	ABOUT 20 to 22 HRS.
<b>ODISHA</b>	24 HRS.
<b>WEST BENGAL</b>	23 HRS.



FREQUENCY DETAILS FOR THE MONTH OF Sep-22

DATE	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-Sep	50.00	49.98	49.99	49.95	49.99	49.98	6.90	82.13	10.97	82.13	50.11	17:33	49.65	18:51	50.07	0:00	49.74	0:00
02-Sep	50.00	50.00	49.97	49.94	49.98	49.98	7.56	85.00	7.44	85.00	50.12	8:50	49.50	19:19	50.08	0:00	49.66	0:00
03-Sep	49.99	50.00	49.97	50.01	50.02	49.99	3.40	86.18	10.42	86.18	50.14	16:03	49.82	10:48	50.07	0:00	49.90	0:00
04-Sep	50.02	50.02	50.00	50.02	49.98	50.01	5.27	73.63	21.10	73.63	50.20	10:02:10	49.73	16:55:40	50.12	0:00	49.83	0:00
05-Sep	49.96	49.99	49.98	50.01	49.91	49.98	6.86	83.58	9.56	83.58	50.15	17:31:30	49.77	12:53:00	50.09	0:00	49.86	0:00
06-Sep	49.97	49.97	49.97	49.98	49.99	49.97	8.89	83.98	7.13	83.98	50.13	13:02:30	49.81	12:14:40	50.06	0:00	49.86	0:00
07-Sep	49.96	49.96	49.98	49.97	49.96	49.97	9.76	84.03	6.22	84.03	50.11	13:03:40	49.68	06:18:20	50.08	0:00	49.77	0:00
08-Sep	49.97	49.99	49.97	49.93	49.96	49.97	11.30	83.62	5.08	83.62	50.10	06:03:10	49.68	18:54:00	50.04	0:00	49.78	0:00
09-Sep	49.95	49.98	49.99	49.96	49.96	49.97	8.28	86.62	5.10	86.62	50.17	16:04:30	49.77	19:12:50	50.07	0:00	49.83	0:00
10-Sep	49.97	50.00	49.98	49.99	50.01	49.99	4.76	87.11	8.13	87.11	50.14	06:02:20	49.82	14:20:10	50.06	0:00	49.88	0:00
11-Sep	49.92	50.02	50.03	50.01	50.01	50.00	7.36	69.76	22.88	69.76	50.27	14:02:10	49.63	12:22:20	50.15	0:00	49.82	0:00
12-Sep	49.99	50.01	49.98	50.00	50.00	49.99	10.24	76.67	13.09	76.67	50.14	08:31:30	49.65	14:13:00	50.08	0:00	49.76	0:00
13-Sep	49.99	50.01	50.01	50.00	50.00	50.00	3.56	75.91	20.52	75.91	50.18	15:18:20	49.80	17:24:10	50.13	0:00	49.89	0:00
14-Sep	49.99	50.00	50.00	50.01	50.01	50.00	8.50	73.40	18.10	73.40	50.18	16:02:20	49.76	12:46:40	50.10	0:00	49.81	0:00
15-Sep	50.01	49.97	50.00	50.00	50.01	50.00	9.43	72.94	17.63	72.94	50.19	13:01:20	49.74	06:19:50	50.10	0:00	49.69	0:00
16-Sep	50.02	50.01	50.02	49.99	50.02	50.01	2.06	69.14	28.80	69.14	50.31	13:02:30	49.68	18:17:50	50.21	0:00	49.82	0:00
17-Sep	49.99	50.01	50.00	49.98	50.00	50.00	4.79	82.20	13.01	82.20	50.18	18:02:50	49.68	17:22:50	50.12	0:00	49.77	0:00
18-Sep	50.00	50.00	50.00	49.97	50.01	49.99	5.91	86.64	7.45	86.64	50.15	06:02:10	49.77	19:07:50	50.07	0:00	49.77	0:00
19-Sep	49.98	49.98	50.00	50.00	50.01	49.99	8.30	83.14	8.56	83.14	50.20	13:03:30	49.85	01:33:50	50.12	0:00	49.83	0:00
20-Sep	50.00	50.00	50.00	50.00	50.01	50.00	2.12	84.19	13.69	84.19	50.16	13:01:20	49.73	14:28:30	50.08	0:00	49.92	0:00
21-Sep	49.99	50.00	50.00	49.99	50.03	50.00	6.08	75.91	18.01	75.91	50.24	13:04:40	49.73	14:42:00	50.16	0:00	49.80	0:00
22-Sep	50.00	50.00	50.00	50.00	49.99	50.00	3.73	83.96	12.31	83.96	50.24	13:02:30	49.68	14:17:30	50.17	0:00	49.85	0:00
23-Sep	50.00	50.01	50.01	49.99	50.00	50.00	3.56	78.81	17.63	78.81	50.24	13:03:20	49.68	17:47:10	50.17	0:00	49.79	0:00
24-Sep	50.01	50.01	50.01	49.99	50.00	50.00	4.48	78.28	17.25	78.28	50.24	13:02:50	49.80	18:43:10	50.16	0:00	49.86	0:00
25-Sep	50.00	49.99	50.02	49.99	50.00	50.00	4.79	78.31	16.90	78.31	50.24	16:06:20	49.74	20:48:20	50.17	0:00	49.82	0:00
26-Sep	50.01	49.98	50.01	49.98	50.01	49.99	9.02	80.20	10.78	80.20	50.20	13:01:10	49.56	18:26:40	50.08	0:00	49.70	0:00
27-Sep	50.00	50.02	50.00	49.98	49.99	50.00	4.32	82.34	13.34	82.34	50.14	07:55:50	49.61	18:25:40	50.10	0:00	49.71	0:00
28-Sep	50.00	50.00	50.00	50.01	50.00	50.00	2.08	83.42	14.50	83.42	50.16	18:02:00	49.81	10:20:00	50.07	0:00	49.90	0:00
29-Sep	50.00	50.00	50.00	49.99	49.98	50.00	4.98	86.85	8.17	86.85	50.12	12:01:40	49.78	18:15:20	50.05	0:00	49.85	0:00
30-Sep	50.00	50.01	50.00	50.01	50.00	50.01	0.02	84.94	15.03	84.94	50.11	16:04:30	49.90	13:43:10	50.06	0:00	49.96	0:00
MAX	50.02	50.02	50.03	50.02	50.03	50.01	11.30	87.11	28.80	87.11	50.31		49.90		50.21		49.96	
MIN	49.92	49.96	49.97	49.93	49.91	49.97	0.02	69.14	5.08	69.14	50.10		49.50		50.04		49.66	
AVG	49.99	50.00	50.00	49.99	49.99	49.99	5.94	80.76	13.29	80.76	50.18		49.73		50.10		49.81	

SUMMARY:

Avg. Frequency : 49.99 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.31 Hz at 13:02 Hrs.

Minimum Frequency : 49.50 Hz at 19:19 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.21 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.66 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	5.94	80.76	13.29

## VOLTAGE ANALYSIS

## MAXIMUM &amp; MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 KV S/S IN THE MONTH OF SEP'2022

( All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	414	400	411	398	421	398	418	398

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	412	389	413	396	405	394	418	393

## 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
<b>TOTAL</b>	<b>820</b>	<b>830</b>	<b>830</b>	<b>840</b>	<b>3320</b>

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-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	
			(30-09-22)	(30-09-21)		
Hirakud	192	180	192.02	192.02	190.30	01.09.22
Balimela	462	439	450.74	451.41	449.00	01.09.22
Rengali	123	109	122.64	123.53	121.71	01.09.22
Upperkolab	858	844	854.71	851.44	852.45	01.09.22
Indravati	642	625	640.06	632.97	640.61	01.09.22
Subernrekha	590	580	589.57	589.00	589.24	01.09.22

B. **CPP/IPP IMPORT by Eastern Region Constituents during** Sep-22

(All figs. are in MU)

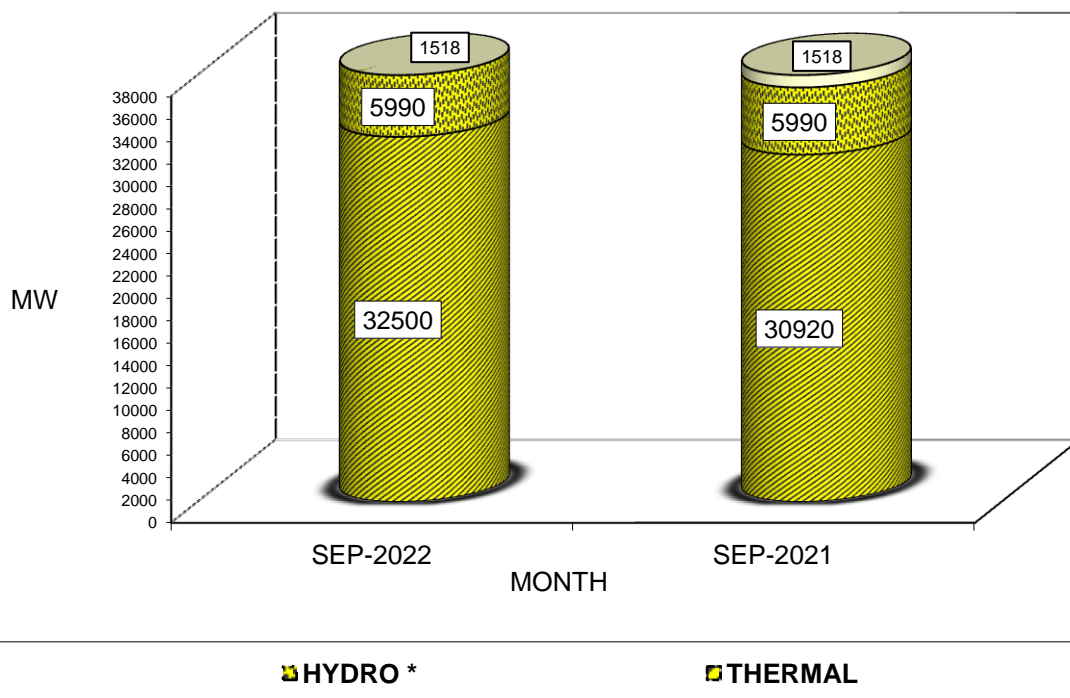
System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	33.03
West Bengal	71.38	24.94	0	0	0	0	0	130.97	227.28
ODISHA	0	0	7.37	220.03	3.31	0.01	0	441.75	672.46
DVC	0	0	0	0	0	0	7.91	0	7.91
<b>TOTAL</b>	71.38	24.94	7.37	220.03	3.31	0.01	7.91	572.71	940.68

C. **Distribution of Schedule Supply among Key Customers by IPPs during** Sep-22

(All figs. are in MU)

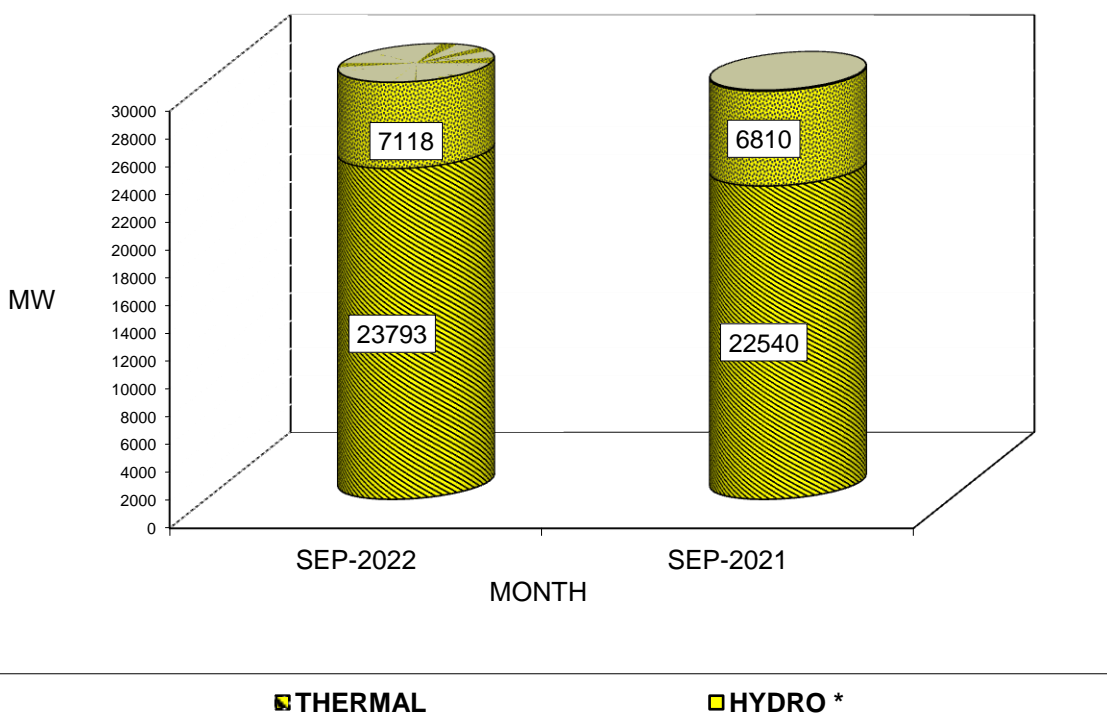
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	198.97	180.27	99.73	0.00	0	0	143.22	622.19
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	43.00	0	25.60	0.00	136.00	82.17	286.77
<b>Total</b>	198.97	223.27	99.73	25.60	0.00	136.00	225.39	908.96

### EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



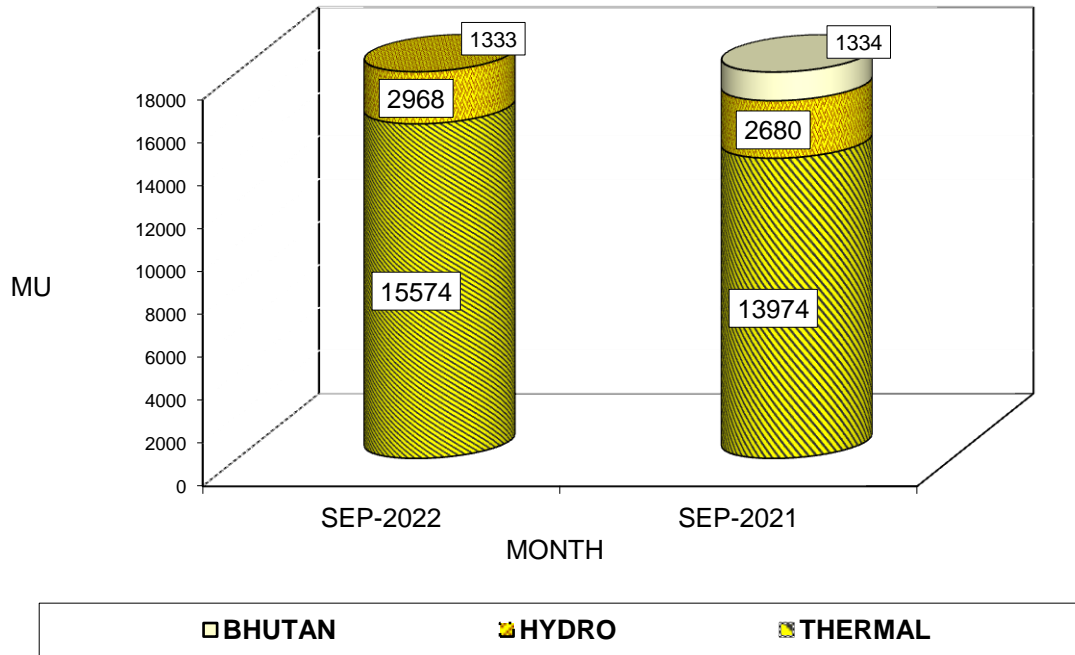
\*Excludes contribution from HEPs of Bhutan

### GENERATION CORRESPONDING TO PEAK DEMAND MET

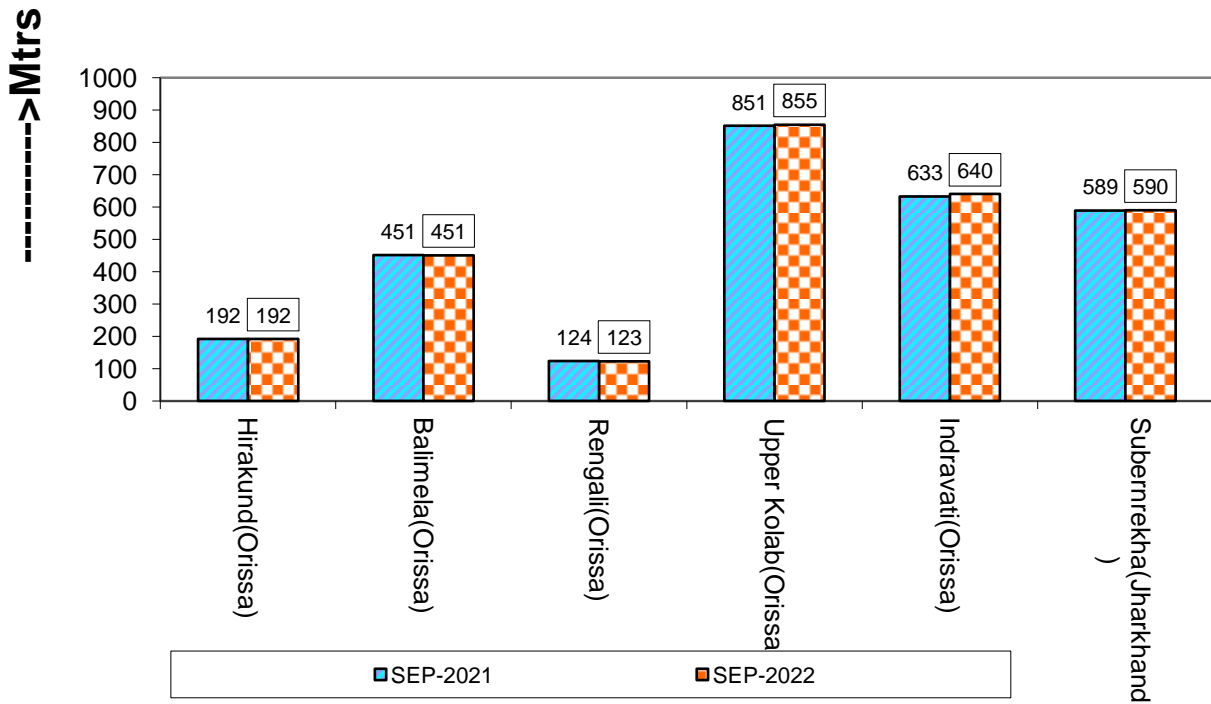


\*Includes contribution from HEP of Bhutan

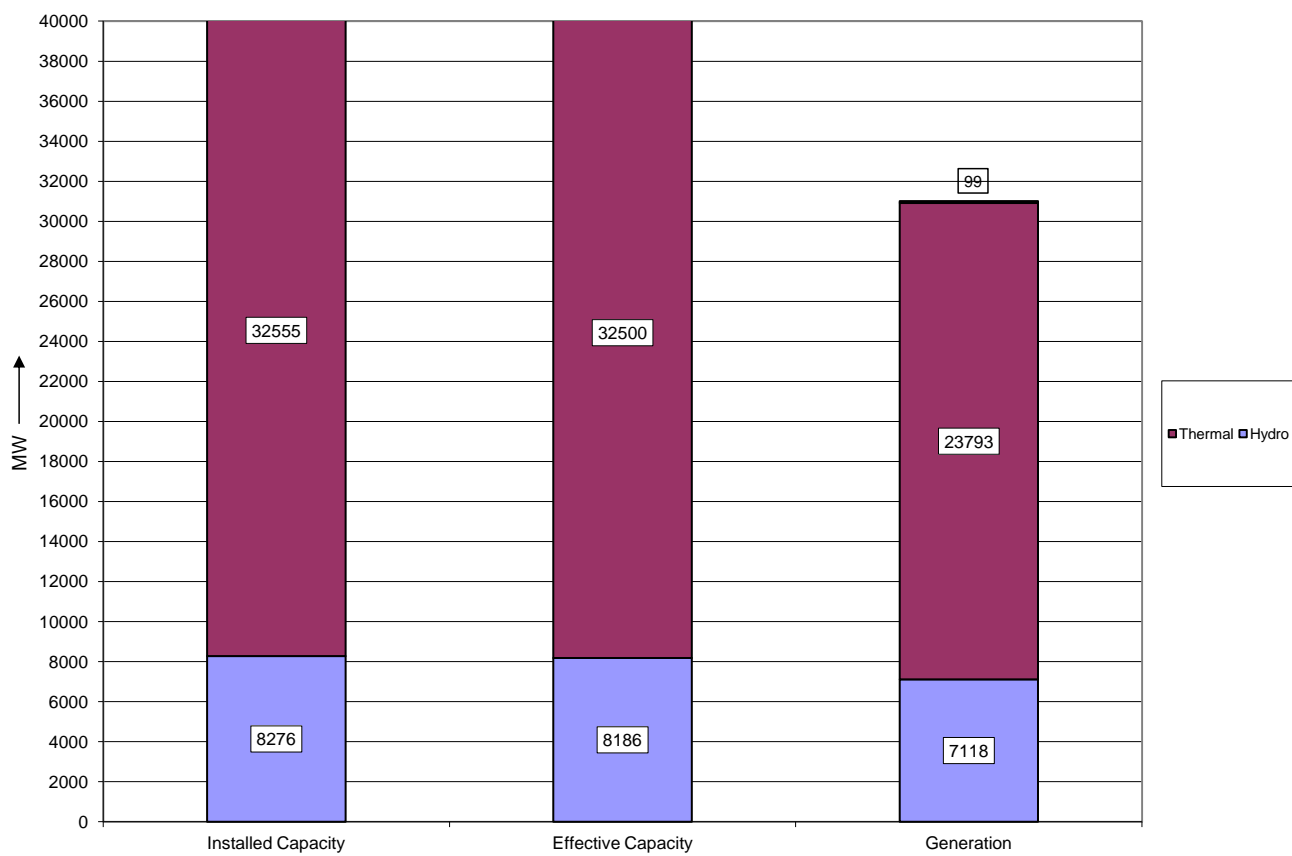
**NET ENERGY GENERATION**



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

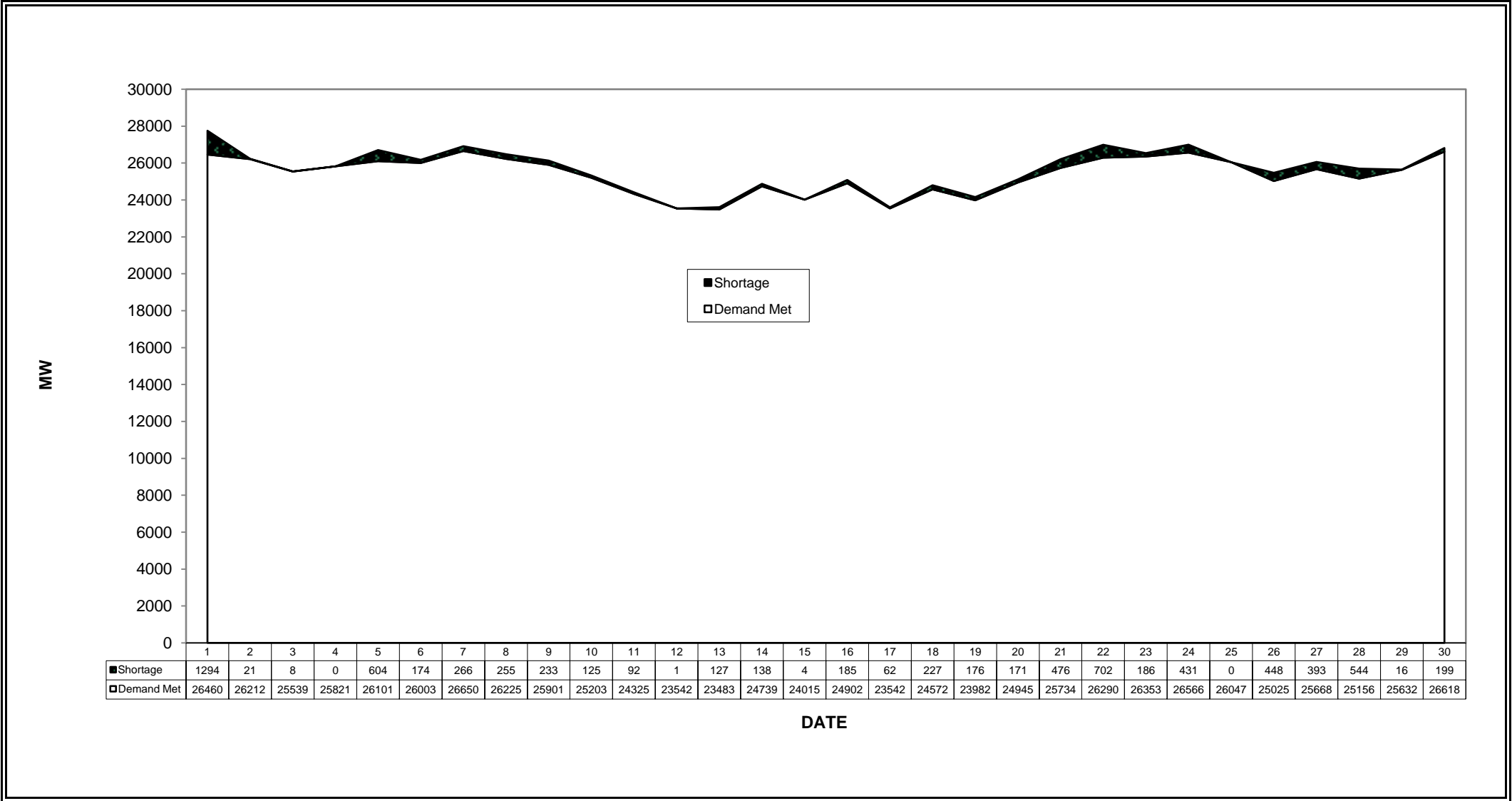


**Capacity / Actual Generation Pattern of ER on Peak Day (7-9-2022) at 24.00 hrs.**

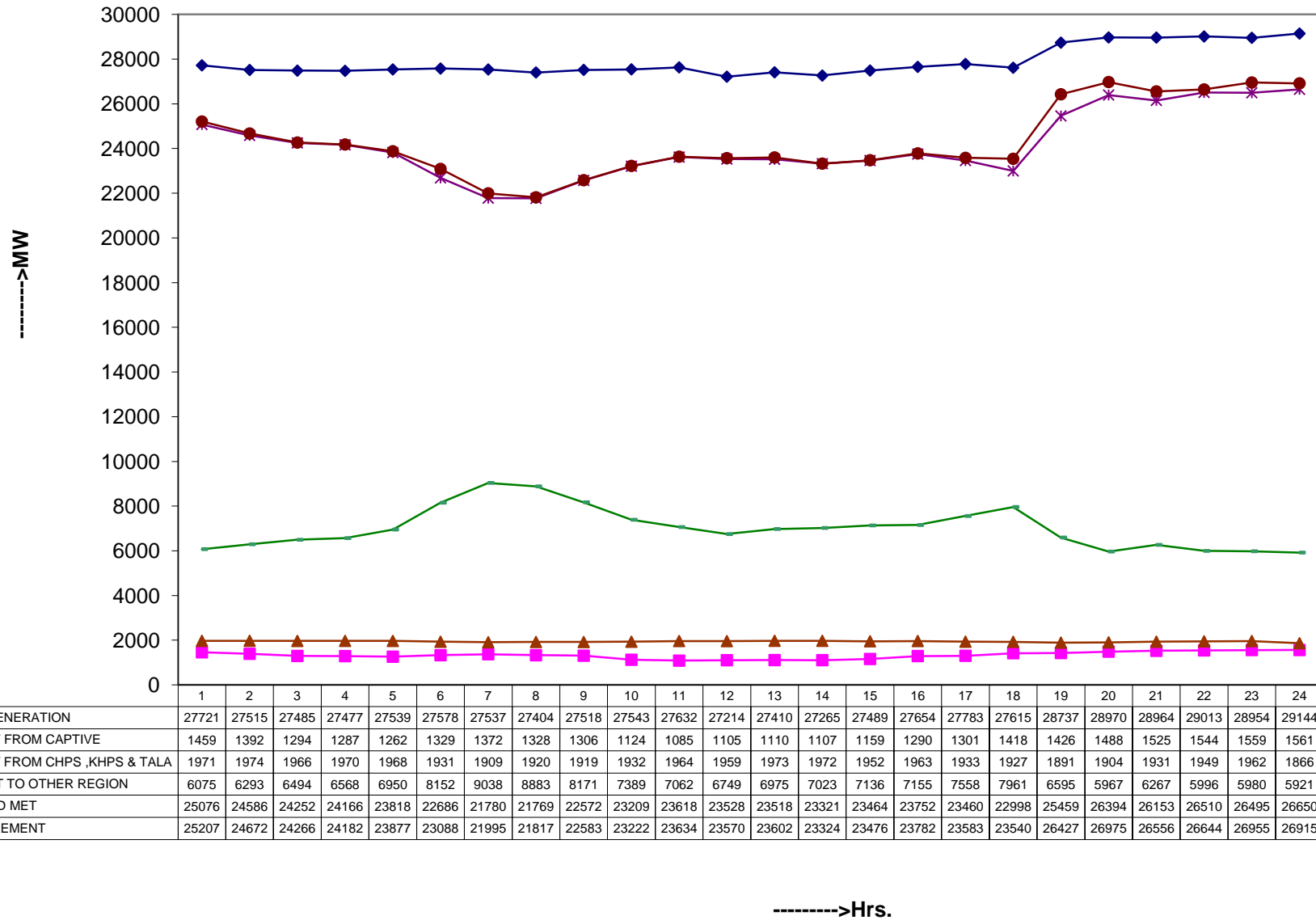


(\*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

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

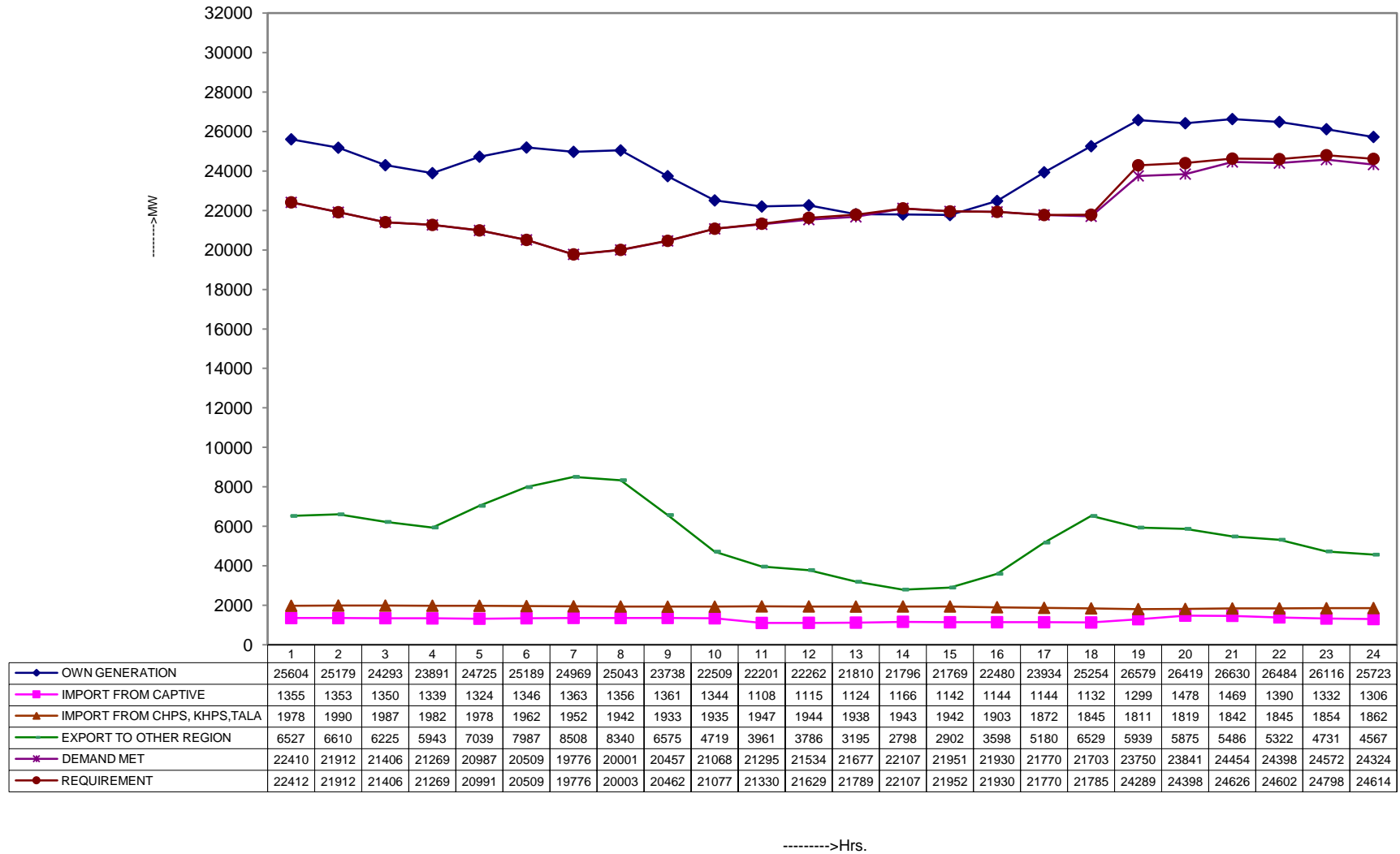


Hourly Load Generation Data OF ER on Regional Peak Day During The Month of SEP'2022 (7-9-2022)



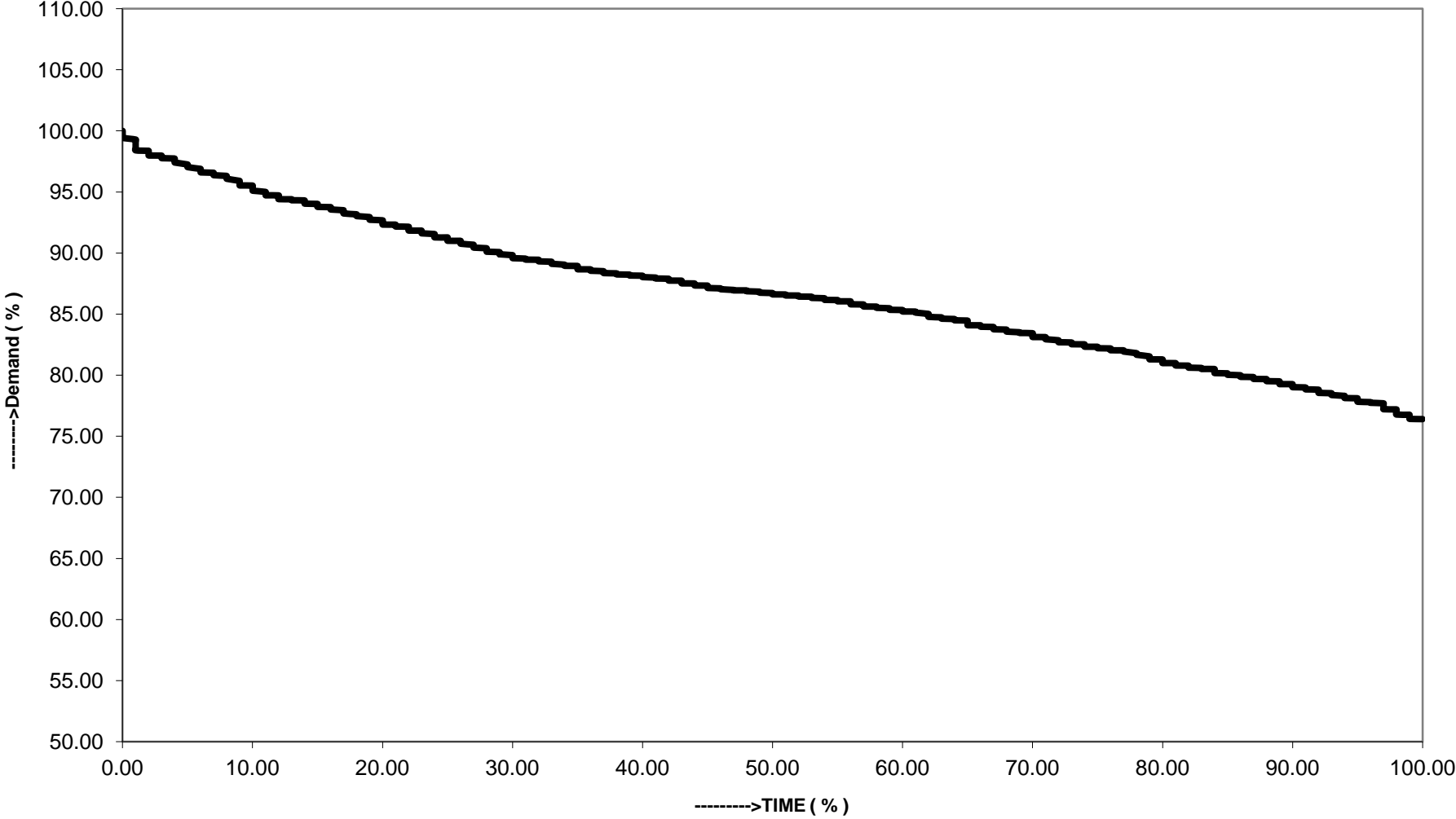


Hourly Load Generation Data of ER On Regional Lean Day During The Month of SEP'2022 (18-9-2022)



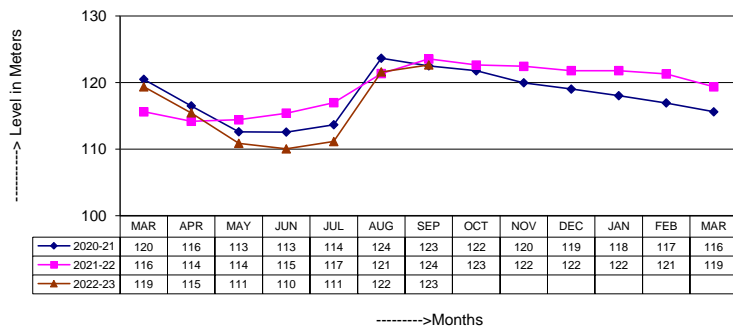
Monthly Load Duration Curve of Eastern Region for SEP-2022

Maximum Demand met : 26650 MW  
Minimum Demand met: 19776 MW

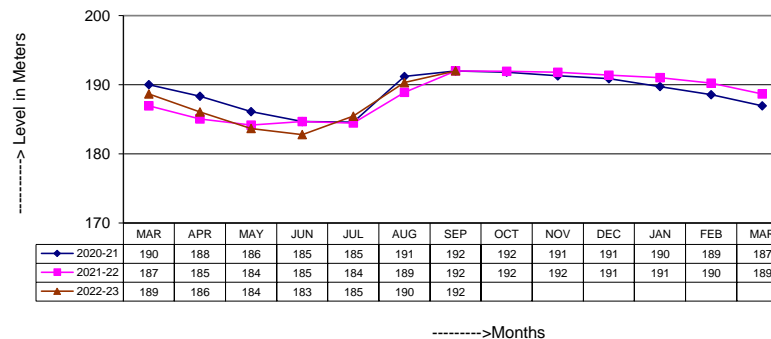


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

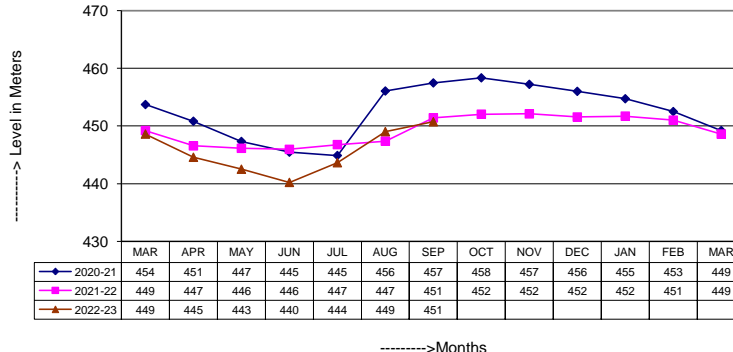
RENGALI RESERVOIR LEVEL



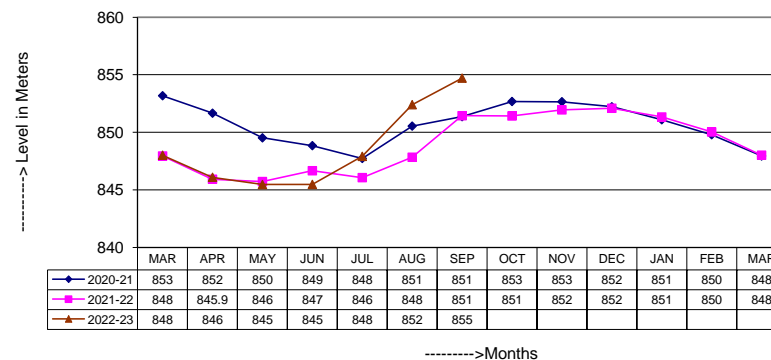
HIRAKUD RESERVOIR LEVEL



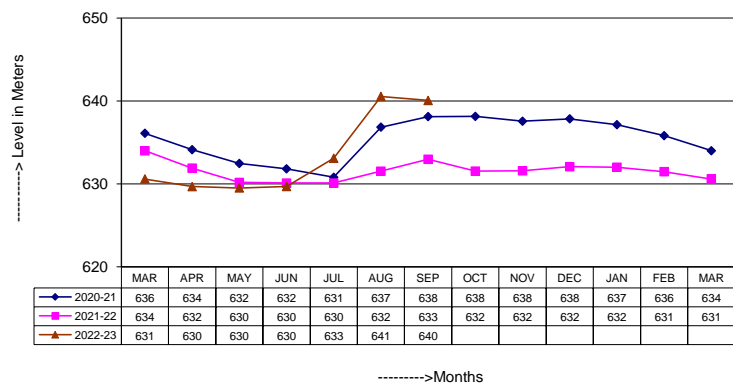
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

