



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति
Eastern Regional Power Committee
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सं /NO: ERPC/MS/SPAR/MPR/2021-22/542

दिनांक/Date: 30.07.2021

सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list

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

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

महोदय / Sir ,

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

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

संलग्नक : यथोपरी

Encl. – As above.

भवदीय / Yours faithfully


03/8/2021

(Swapan Roy)

अधीक्षक अभियंता

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Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

जून - 2021

JUNE-2021



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Highlights of Eastern Regional Power System for June - 2021

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **June, 2021** was **23494 MW** which is 7.61% more than the **June, 2020** (21832 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 **Jun, 2021** was **462.07 MU** excluding export, which is 8.66% more than the corresponding period of last year (425.23 MU).
- **The Average regional PLF of thermal units during the month is 70.61 %**, which is 10.88% more than the corresponding period of the last year (**59.73%**).
DVC (ChandrapuraTPS) registered the highest **PLF** of 91.29%, followed by WBPDC (SantalidihTPS) 91.22% and NTPC (TSTPP) 89.96% during the month of **Jun, 2021**.
- **Maximum Net generation** was **28557 MW** against total **Effective Capacity of 39050.41 MW** (including import from Bhutan). At the time of Regional peak (**23494 MW** on 09.06.2021 at 24.00 hrs.) the generation was **28387 MW** and import from CPP was 1449 MW, Net export was 6343 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 74.53% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.27 Hz and 49.64 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.19 Hz** and **49.73 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **421 KV** at Jeerat 400 KV S/s whereas the minimum voltage recorded 387 KV at Muzaffarpur 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 11053 MW (including Nepal and Bangladesh) on 2nd Jun, 2021 at 07:00 hrs. Total net energy export during the month was 4689.91 MU (inc. Transmission loss) MU which is corresponds to 26.89 % of ex-bus total generation 17438.53 MU of Eastern Region.**
- **The import from CPPs was 1113.49 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	6318	0	3071.01
WR	921	3638	-951.57
SR	4081	0	1484.78
NER	1037	575	314.40
BANGLADESH	942		649.19
NEPAL (via-CTU)	329		122.10
Total			4689.91
NEPAL by Bihar(NBPDCL)			40.082

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Jun-21	JUNE-2020	CHANGE	% CHANGE
1) Effective Capacity (end of the Month)					
THERMAL	(MW)	29460	30130	-670	-2.22
HYDRO	(MW)	5877	\$ 5877	0	0
DIESEL	(MW)	0	0	0	0
RES	(MW)	1518	1489	0	0
TOTAL	(MW)	36854	37496	-642	-1.71
2) Peak Demand (MW)		23521	21989	1532	6.97
3) Peak Demand Met (MW)		23494	21832	1662	7.61
4) Shortage (MW)		28	156	-128	0.00
5) % Shortage		0.12	0.71	-0.59	0.00
6) Average Energy Requirement Per Day (MU)		462.84	425.91	36.93	8.67
7) Average Energy Availability Per Day (MU)		462.07	425.23	36.84	8.66
8) Average Shortage Per Day (MU)		0.77	0.68	0.09	13.82
9) % Shortage		0.17	0.16	0.01	4.74
10) Net Generation for the Month					
Thermal (MU)		13895.18	11926.82	1968.36	16.50
Hydro (MU)		3464.65	* 3744.41	-279.76	-7.47
RES (MU)		78.70	171.31	0.00	-
Total (MU)		17438.53	15842.54	1595.99	10.07
11) Generation at the Time of Max. Regional Demand Met (09-06-21 at 24.00 Hrs.)					
Thermal (MW)		22660	19251	3409	17.71
Hydro (MW)		5702	* 7013	-1311	-18.70
RES(MW)		26	50	-24	-48.63
Total (MW)		28387	26314	2073	7.88
12) Inter-Regional Energy Transfer					
Export (MU)		5641.48	5121.94	519.54	10.14
Import (MU)		951.57	1264.58	-313.01	-24.75
Net Exp.(+)/Net Imp.(-) (MU)		4689.91	3857.35	832.56	21.58
13) Import From Captive(MU)		1113.49	771.57	341.92	44.31
14) Peak Inter Regional Power Transfer					
Max Export (MW) on 02-06-21 at 07.00Hrs		11053	9446	1607	17.01
Max Import (MW) on 01-06-21 at 04.00Hrs		3638	3728	-90	-2.42
Max Net Export(+)/Import (-) (MW)		11053	8474	2579	30.43
15) Maximum voltage recorded		421	JEERAT	400 kv s/s	
16) Minimum voltage recorded		387	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 JUNE'2021

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	108.12	108.21	0.09	0.09
JUVNL	28.76	29.32	0.56	1.90
DVC	64.35	64.36	0.01	0.02
ODISHA	100.94	100.96	0.02	0.02
WBSEDCL	128.83	129.01	0.19	0.14
CESC	29.48	29.48	0.01	0.02
SIKKIM	1.50	1.50	0.00	0.02
REGION	462.07	462.84	0.77	0.17

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	6084	6102	18	0.29
JUVNL	1520	1702	182	10.70
DVC	2916	2923	7	0.24
ODISHA	4984	4984	0	0.00
WBSEDCL	7003	7012	9	0.13
CESC	1934	1935	1	0.0
SIKKIM	90	90	0	0.00
REGION	23494	23521	28	0.12

➤ **DIVERSITY FACTOR : 1.04**

➤ **Regional Peak Demand Met on 9-6-2021 at 24.00 hrs. at 49.97 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA JUNE-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(+)	Consumption(MU)	Cons.(MU)	Demand	Demand
														Net Export(-)				
BSPHCL	0.00	231.43	13.15	244.57	0.00	29.73	0.00	29.73	0.00	201.70	13.15	214.84	0.00	3028.63	3243.47	108.1	6084	6132
JUVNL	23.49	100.85	0.00	124.34	0.00	13.44	0.00	13.44	23.49	87.41	0.00	110.90	39.68	712.18	862.75	28.8	1520	1539
DVC	63.27	3344.74	0.00	3408.01	0.19	240.44	0.00	240.63	63.08	3104.30	0.00	3167.38	11.18	-1248.08	1930.48	64.3	2916	3255
ODISHA(OPGC+OHPC+TTPS)	396.91	682.95	49.22	1129.08	3.42	62.26	0.00	65.68	393.49	620.68	49.22	1063.39	853.81	1110.91	3028.12	100.9	4984	5101
WBPDCL+WBSEDCL+DPL	176.79	2459.93	13.34	2650.06	0.00	222.03	0.00	222.03	176.79	2237.91	13.34	2428.04	208.82	1227.98	3864.83	128.8	7003	7387
CESC	0.00	478.81	0.00	478.81	0.00	37.21	0.00	37.21	0.00	441.60	0.00	441.60	0.00	442.66	884.26	29.5	1934	1995
HEL	0.00	362.14	0.00	362.14	0.00	28.48	0.00	28.48	0.00	333.66	0.00	333.66	0.00	-333.66				
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	43.01	45.01	1.5	90	90
NTPC	0.00	5387.61	0.99	5388.60	0.00	407.00	0.00	407.00	0.00	4980.61	0.99	4981.60	0.00	-4981.60				
MPL	0.00	638.21	0.00	638.21	0.00	37.87	0.00	37.87	0.00	600.34	0.00	600.34	0.00	-600.34				
APNRL	0.00	277.28	0.00	277.28	0.00	25.97	0.00	25.97	0.00	251.31	0.00	251.31	0.00	-251.31				
GMR	0.00	371.80	0.00	371.80	0.00	26.84	0.00	26.84	0.00	344.96	0.00	344.96	0.00	-344.96				
JITPL	0.00	739.45	0.00	739.45	0.00	48.75	0.00	48.75	0.00	690.70	0.00	690.70	0.00	-690.70				
NHPC (Inc TLDP= 185.2MU)	479.06	0.00	0.00	479.06	0.00	0.00	0.00	0.00	479.06	0.00	0.00	479.06	0.00	-479.06	0.00			
CHUZACHEN HPS	73.60	0.00	0.00	73.60	0.00	0.00	0.00	0.00	73.60	0.00	0.00	73.60	0.00	-73.60	0.00			
DIKCHU HPS	73.57	0.00	0.00	73.57	0.00	0.00	0.00	0.00	73.57	0.00	0.00	73.57	0.00	-73.57	0.00			
JORHANG HPS	52.00	0.00	0.00	52.00	0.00	0.00	0.00	0.00	52.00	0.00	0.00	52.00	0.00	-52.00	0.00			
TASHIDING HPS	45.32	0.00	0.00	45.32	0.00	0.00	0.00	0.00	45.32	0.00	0.00	45.32	0.00	-45.32	0.00			
TEESTA-III HPS	904.35	0.00	0.00	904.35	0.00	0.00	0.00	0.00	904.35	0.00	0.00	904.35	0.00	-904.35	0.00			
RONGNICHU HEP	6.97	0.00	0.00	6.97	0.00	0.00	0.00	0.00	6.97	0.00	0.00	6.97	0.00	-6.97	0.00			
CHPC(Birpara Receipt)	259.97	0.00	0.00	259.97	0.00	0.00	0.00	0.00	259.97	0.00	0.00	259.97	0.00	-259.97	0.00			
KHPS	46.90	0.00	0.00	46.90	0.00	0.00	0.00	0.00	46.90	0.00	0.00	46.90	0.00	-46.90	0.00			
THPS	414.17	0.00	0.00	414.17	0.00	0.00	0.00	0.00	414.17	0.00	0.00	414.17	0.00	-414.17	0.00			
DAGACHU HPS	51.65	0.00	0.00	51.65	0.00	0.00	0.00	0.00	51.65	0.00	0.00	51.65	0.00	-51.65	0.00			
Mangdechhu HEP	400.26	0.00	0.00	400.26	0.00	0.00	0.00	0.00	400.26	0.00	0.00	400.26	0.00	-400.26	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														3.20	3.20			
Total	3468.28	15075.20	78.69	18622.18	3.62	1180.02	0.00	1183.64	3464.66	13895.18	78.69	17438.54	1113.49	-4689.91	13862.12	462.07	23494	25131

3A 17438.54

13862.12

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

A) Net Average Energy

Month	2020-21					2021-22				
	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)
APRIL	323.27	324.20	0.93	0.29	50.00	495.89	497.87	1.98	0.40	49.99
MAY	355.60	360.37	4.77	1.32	50.00	429.83	430.89	1.06	0.25	49.99
JUNE	425.23	425.91	0.69	0.16	50.00	462.07	462.84	0.77	0.17	49.99
JULY	447.56	448.25	0.70	0.16	49.99	-	-	-	-	-
AUGUST	447.69	449.62	1.93	0.43	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 (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	18093	18302	209	1.14	50.00	24405	24405	0	0.00	49.99
MAY	20166	20306	140	0.69	50.00	24191	24191	0	0.00	49.99
JUNE	21832	21989	156	0.71	50.00	23494	23521	28	0.12	49.99
JULY	22643	22735	92	0.40	49.99	-	-	-	-	-
AUGUST	22192	22399	207	0.92	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 JUNE -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	13.05	10.28	16.97	11.56
	Thermal	Barauni (U# 8)	250.00	250.00	122.44	107.33	391.74	338.14
		Barauni (U# 9)	0.00	0.00	40.73	36.66	40.73	40.73
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	55.21	47.43	193.19	167.88
		Thermal Total	690.00	680.00	231.43	201.70	642.63	554.24
	RES		354.91	354.91	13.14	13.14	50.56	50.56
		Total BIHAR		1044.91	1034.91	244.57	214.84	693.18
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	100.85	87.41	372.03	326.79
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	23.49	23.47	24.02	24.00
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total	190.41	190.41	23.49	23.47	24.02	24.00
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.87	0.00	-2.65
		Chandrapura(U7 # 8)	500.00	500.00	328.65	297.28	958.37	865.94
		Durgapur(4)	210.00	210.00	32.05	26.55	32.05	25.49
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	595.11	532.71	2011.53	1805.34
		Mezia(U # 7,8)	1000.00	1000.00	569.37	536.27	1725.94	1626.77
		Bokaro-A(1)	500.00	500.00	225.19	210.94	795.42	749.72
		Durgapur STPS (U#1,2)	1000.00	1000.00	529.70	499.08	1625.83	1533.33
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	418.20	390.90	1350.25	1265.51
		Koderma STPS (U#1,2)	1000.00	1000.00	646.47	611.45	1981.57	1874.88
		Total Thermal	6750.00	6750.00	3344.74	3104.30	10480.95	9744.33
	Hydro	Maithon (U#1,2,3)	63.20	63.20	23.05	23.01	42.87	42.77
		Panchet (U#1,2)	80.00	80.00	38.77	38.62	47.17	46.85
		Tilaya (U#1,2)	4.00	4.00	1.45	1.4	1.46	1.4
Hydro Total		147.20	147.20	63.27	63.07	91.50	91.06	
	Total DVC	6897.20	6897.20	3408.01	3167.38	10572.45	9835.38	
WEST BENGAL								
WBPDCL	Thermal	Bandel TPS	380.00	335.00	127.29	114.81	430.43	388.78
		Santalidih TPS(U#5&6)	500.00	500.00	328.38	300.04	1023.83	938.67
		Kolaghat TPS	1260.00	1260.00	223.24	198.56	897.78	797.45
		Bakreswar TPP	1050.00	1050.00	644.65	586.01	2072.16	1890.48
		Sagardighi TPP	1600.00	1600.00	920.98	846.44	3095.36	2857.76
		DPPS (300+250 *)	550.00	550.00	215.39	192.03	628.81	564.55
		Thermal Total	5340.00	5295.00	2459.93	2237.91	8148.37	7437.70
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.46	23.46	45.20	45.20
		Ramam (4x12.73)	51.00	51.00	30.22	30.22	50.91	50.91
		Teesta C.F. (3x3x7.5)	67.50	67.50	10.52	10.52	11.70	11.70
		Purulia PSS (4x225)	900.00	900.00	112.60	112.60	264.78	264.78
		Total Hydro	1053.50	1053.50	176.79	176.79	372.59	372.59
		RES	500.76	500.76	13.34	13.34	38.31	38.31
	➤	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 JUNE -2021

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	Net Energy Generation in MU	Cummulative Gross Energy Generation upto Current Month (2021-22) in MU	Cummulative Net Energy Generation upto Current Month (2021-22) in MU	
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00	
		Southern (2x67.5)	135.00	135.00	4.36	3.93	50.09	45.52	
		Budge-Budge (3x250)	750.00	750.00	474.45	437.67	1494.76	1381.14	
		Total CESC	1125.00	1125.00	478.81	441.60	1544.85	1426.66	
HEL	Thermal	HEL	600.00	600.00	362.14	333.66	1161.91	1073.22	
		Total West Bengal	8619.26	8574.26	3491.01	3203.30	11266.04	10348.48	
OPGC	Thermal	IB TPS	420.00	420.00	183.83	159.65	668.37	587.53	
		IB TPS U#3(660 MW)	660.00	660.00	211.01	194.91	780.01	725.99	
		IB TPS U#4(660 MW)	660.00	660.00	288.11	266.13	873.69	814.46	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	61.92	61.73	103.97	103.46	
		Hirakud-II (Chiplima)	72.00	72.00	3.35	3.28	28.26	28.02	
		Balimela (6x60+2x75)	510.00	510.00	110.59	109.61	252.25	249.47	
		Rengali (5x50)	250.00	250.00	91.17	91.05	156.07	155.73	
		Upper Kolab (4x80)	320.00	320.00	12.02	11.89	87.78	87.11	
		Indravati HPS (4x150)	600.00	600.00	92.88	90.94	393.63	385.64	
		Mckd.(Odisha drawal)	57.38	57.38	24.98	24.98	69.85	69.85	
		Total Hydro	2084.88	2084.88	396.91	393.49	1091.81	1079.28	
		RES	539.57	539.57	49.22	49.22	172.59	172.59	
		Total Odisha	4364.45	4364.45	1129.08	1063.39	3586.48	3379.85	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	4.00	4.00	
NTPC		MTPS Stg-II	390.00	390.00	216.867	194.07	668.68	600.16	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	784.80	717.90	2208.62	2017.21	
		FSTPP (U# 6)	500.00	500.00	272.06	251.11	867.56	802.33	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1354.25	1257.61	4505.46	4192.85	
		TSTPP (2x500)	1000.00	1000.00	647.73	598.85	1765.98	1630.84	
		BARH STPS II (2X660)	1320.00	1320.00	691.93	649.90	2075.75	1950.25	
		BARH STPS I (1X660)			0.00	0.00	8.94	8.94	
		BRBCL # I,2,3(3X250 MW)	750	750	431.03	394.79	1368.65	1259.73	
		NSTPS U#I	660.00	660.00	421.84	401.03	1235.58	1173.18	
		NSTPS U#II			9.02	1.57	10.66	1.57	
		DSTPP #1	800.00	800.00	508.97	477.96	1403.03	1314.80	
		DSTPP #2			49.12	35.81	78.50	49.93	
		Total NTPC	9360.00	9360.00	5387.61	4980.61	16197.41	14992.86	
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	36.00	36.00	75.94
Teesta (3x170)	510.00			510.00	257.86	257.86	690.69	690.69	
TLDP(4x33+4x40) for WBSEDCL	292.00			292.00	185.20	185.20	355.62	355.62	
Total NHPC	862.00			862.00	479.06	479.06	1122.25	1122.25	
			MPL (U#1&2)	1050.00	1050.00	638.21	600.34	2027.43	1911.07
			APNRL (U#1,2)	540.00	540.00	277.28	251.31	950.69	865.33
			GMR (2x350)	700.00	700.00	371.80	344.96	1213.07	1128.21
			JITPL (2X600)	1200.00	1200.00	739.45	690.70	2187.02	2045.65
			CHUZACHEN** (2x55)	110.00	110.00	73.60	73.60	130.59	130.59
			JORETHANG (2x48)	96.00	96.00	52.00	52.00	86.54	86.54
			TEESTA URJA St III (6x200)	1200.00	1200.00	904.35	904.35	1739.62	1739.62
			Tashilding (2x48.5)	97.00	97.00	45.32	45.32	77.58	77.58
			DICKCHU (2x48)	96.00	96.00	73.57	73.57	153.75	153.75
			RONGNICHU HEP			6.97	6.97	7.03	7.03
			TALCHER SOLAR	10.00	10.00	0.99	0.99	3.52	3.52
			Total Thermal (E.R)	29515.00	29460.00	15075.20	13895.18	47248.43	43634.02
			Total Hydro (E.R)	5876.58	5876.58	2295.33	2291.70	4897.27	4884.28
			Total RES	1517.83	1517.83	78.70	78.70	268.98	268.98
			EASTERN REGIONAL	TOTAL (E.R)		36909.41	36854.41	17449.23	16265.58
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	259.97	259.97	426.69	426.69	
		Kurichu (4x15)	60.00	60.00	46.90	46.90	67.56	67.56	
		TALA (6x170)	1020.00	1020.00	414.17	414.17	605.79	605.79	
		DAGACHU (2x63)	126.00	126.00	51.65	51.65	81.84	81.84	
		MANGDECHU(4x180)	720.00	720.00	400.26	400.26	736.80	736.80	
Grand Total		39195.41	39050.41	18622.18	17438.53	54333.35	50705.95		

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JUNE' 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	13.05	8.63	16.97	3.70
	Thermal	Barauni (U# 8)	250.00	250.00	122.44	68.02	391.74	71.75
		Barauni (U# 9)	0.00	0.00	40.73	0.00	40.73	0.00
	(Dedicated for Bihar) RES	Muzaffarpur Stg-I	220.00	220.00	55.21	34.85	193.19	40.21
		Thermal Total	690.00	680.00	231.43	38.95	642.63	40.53
			354.91	354.91	13.14		50.56	
		Total BIHAR	1044.91	1034.91	244.57		693.18	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	100.85	33.35	372.03	40.56
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	23.49		24.02	
	RES		60.41	60.41	0.00		0.00	
		Total	190.41	190.41	23.49		24.02	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	328.65	91.29	958.37	87.76
		Durgapur(4)	210.00	210.00	0.00	21.19	32.05	6.99
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	595.11	61.68	2011.53	68.73
		Mezia(U # 7,8)	1000.00	1000.00	569.37	79.08	1725.94	79.03
		Bokaro-A(1)	500.00	500.00	225.19	62.55	795.42	72.84
		Durgapur STPS (U#1,2)	1000.00	1000.00	529.70	73.57	1625.83	74.44
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	418.20	48.40	1350.25	51.52
	Koderma STPS (U#1,2)	1000.00	1000.00	646.47	89.79	1981.57	90.73	
		Total Thermal	6750.00	6750.00	3344.74	68.82	10480.95	71.10
	Hydro	Maithon (U#1,2,3)	63.20	63.20	23.05		42.87	
		Panchet (U#1,2)	80.00	80.00	38.77		47.17	
		Tilaya (U#1,2)	4.00	4.00	1.45		1.46	
		Hydro Total	147.20	147.20	63.27		91.50	
	Total DVC	6897.20	6897.20	3408.01		10572.45		
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	127.29	52.77	430.43	58.83
		Santalidih TPS(U#5&6)	500.00	500.00	328.38	91.22	1023.83	93.76
		Kolaghat TPS	1260.00	1260.00	223.24	24.61	897.78	32.62
		Bakreswar TPP	1050.00	1050.00	644.65	85.27	2072.16	90.36
		Sagardighi TPP	1600.00	1600.00	920.98	79.95	3095.36	88.58
		DPPS (300+250 *)	550.00	550.00	215.39	54.39	628.81	52.35
		Thermal Total	5340.00	5295.00	2459.93	64.52	8148.37	70.46
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.46		45.20	
		Ramam (4x12.73)	51.00	51.00	30.22		50.91	
		Teesta C.F. (3x3x7.5)	67.50	67.50	10.52		11.70	
		Purulia PSS (4x225)	900.00	900.00	112.60		264.78	
		Total Hydro	1053.50	1053.50	176.79		372.59	
		RES	500.76	500.76	13.34		38.31	
WBPDCCL,Bandel TPS Unit #3 & Unit #4 (IC=2X82.5 MW,EC=2X60 MW) decommissioned from 01.04.2018.								
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. 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.								

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

ORGANISATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy	PLF	Cummulative Gross Energy	Cummulative PLF		
					Generation in MU	of Current Month (%)	upto Current Month (2021-22) in MU	upto Current Month (%)		
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00		
		Southern (2x67.5)	135.00	135.00	4.36	4.49	50.09	16.99		
		Budge-Budge (3x250)	750.00	750.00	474.45	87.86	1494.76	91.26		
		Total CESC	1125.00	1125.00	478.81	59.11	1544.85	62.88		
HEL	Thermal		600.00	600.00	362.14	83.83	1161.91	88.67		
		Total West Bengal	8619.26	8574.26	3491.01		11266.04			
OPGC	0 Thermal	IB TPS	420.00	420.00	183.83	60.79	668.37	72.86		
		IB TPS U#3(660 MW)	660.00	660.00	211.01	44.40	780.01	54.11		
		IB TPS U#4(660 MW)	660.00	660.00	288.11	60.63	873.69	60.61		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	61.92		103.97			
		Hirakud-II (Chiplima)	72.00	72.00	3.35		28.26			
		Balimela (6x60+2x75)	510.00	510.00	110.59		252.25			
		Rengali (5x50)	250.00	250.00	91.17		156.07			
		Upper Kolab (4x80)	320.00	320.00	12.02		87.78			
		Indravati HPS (4x150)	600.00	600.00	92.88		393.63			
		Mckd.(Odisha drawal)	57.38	57.38	24.98		69.85			
		Total Hydro	2084.88	2084.88	396.91		1091.81			
		RES	539.57	539.57	49.22		172.59			
		Total Odisha	4364.45	4364.45	1129.08		3586.48			
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		4.00			
NTPC		MTPS Stg-II	390	390	216.867	77.23	668.68	78.51		
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	784.80	68.13	2208.62	63.20		
		FSTPP (U# 6)	500.00	500.00	272.06	75.57	867.56	79.45		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1354.25	80.38	4505.46	88.16		
		TSTPP (2x500)	1000.00	1000.00	647.73	89.96	1765.98	80.86		
		BARH STPS II (2X660)	1320.00	1320.00	691.93	72.80	2075.75	72.00		
		BARH STPS I (1X660)			0.00		8.94			
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	431.03	79.82	1368.65	83.56		
		NSTPS U#I	660.00	660.00	421.84	88.77	1235.58	85.72		
		NSTPS U#II			9.02		10.66			
		DSTPP #1	800.00	800.00	508.97	88.36	1403.03	80.30		
		Total NTPC	9360.00	9360.00	5387.61	79.08	16197.41	78.76		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	36.00		75.94	
				Teesta (3x170)	510.00	510.00	257.86		690.69	
TLDP(4x33+4x40) for WBSEDCL	292.00			292.00	185.20		355.62			
Total NHPC	862.00			862.00	479.06		1122.25			
Thermal	MPL (U#1&2)		1050.00	1050.00	638.21	84.42	2027.43	88.41		
	APNRL (U#1,2)		540.00	540.00	277.28	71.32	950.69	80.61		
	GMR (2x350)		700.00	700.00	371.80	73.77	1213.07	79.35		
	JITPL (2X600)		1200.00	1200.00	739.45	85.58	2187.02	83.45		
	CHUZACHEN** (2x55)		110.00	110.00	73.60		130.59			
	JORETHANG (2x48)		96.00	96.00	52.00		86.54			
	TEESTA URJA St III (6x200)		1200.00	1200.00	904.35		1739.62			
	Tashilding (2x48.5)		97.00	97.00	45.32		77.58			
	DICKCHU (2x48)		96.00	96.00	73.57		153.75			
	RONGNICHU HEP				6.97		7.03			
TALCHER SOLAR	10.00	10.00	0.99		3.52					
Total Thermal (E.R)	29515.00	29460.00	15075.20	70.61	47248.43	73.22				
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	2295.33		4897.27			
		Total RES	1517.83	1517.83	78.70		268.98			
		TOTAL (E.R)	36909.41	36854.41	17449.23		52414.68			
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	259.97		426.69			
		Kurichu (4x15)	60.00	60.00	46.90		67.56			
		TALA (6x170)	1020.00	1020.00	414.17		605.79			
		DAGACHU (2x63)	126.00	126.00	51.65		81.84			
		MANGDECHU(4x180)	720.00	720.00	400.26		736.80			
		Grand Total	39195.41	39050.41	18622.18		54333.35			

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF JUNE 2021 (9-6-2021)

Date 9-Jun-21
Time 24.00 Hrs.
Frequency 49.97 Hz.

(All Fig. in MW)

System/State	Installed	Effective	Hydro	Thermal	RES	Net Gen
	Capacity	Capacity				Total
BSPHCL	1045	1035	0	349	0	349
JUVNL	610	610	0	119	0	119
DVC	6897	6897	76	5063	0	5138
ODISHA	4364	4364	940	859	26	1825
WBSEDCL	6344	6299	969	3575	0	4544
TLDP	292	292	282	0	0	282
HEL HALDIA	600	600	0	548	0	548
CESC	1125	1125	0	693	0	693
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	8273	0	8273
NHPC	570	570	401	0	0	401
CHUKHA	360	270	262	0	0	262
KURICHU	60	60	54	0	0	54
TALA	1020	1020	417	0	0	417
MPL	1050	1050	0	991	0	991
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	438	0	438
Kamalganga (GMR)	700	700	0	675	0	675
JITPL	1200	1200	0	1077	0	1077
Chuzachen	110	110	110	0	0	110
Jorethang	96	96	82	0	0	82
TEESTA URJA St III	1200	1200	1284	0	0	1284
Tashilding	97	97	90	0	0	90
DICKCHU	96	96	106	0	0	106
<u>Daghachu</u>	126	126	46	0	0	46
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	584	0	0	584
<u>Total</u>	39195	39050	5702	22660	26	28387
Import From Captive:						1449
Export To:						
NER						-16
SR						1605
WR						-1674
NR						5331
Bangladesh						932
Nepal						165
Total						6343
➤ I Net Peak Demand Met (MW) :						23494
Indicates Export(+)/Import(-) of Power						

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JUNE'2021 (9-6-2021)

(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	3009	21667	24676	1702	1329	6780	20927	-29	36	20934
2	3325	21188	24513	1581	1322	7510	19906	-16	35	19925
3	3010	20533	23544	1588	1304	7209	19226	0	36	19262
4	2842	20047	22889	1573	1342	7546	18259	-29	30	18260
5	2638	19371	22009	1554	1386	7576	17373	-12	26	17387
6	2856	19216	22071	1559	1382	8054	16958	3	23	16984
7	2702	19142	21845	1552	1382	8481	16297	-4	18	16311
8	2491	18150	20642	1495	1399	7012	16523	-45	15	16538
9	2432	17609	20041	1405	1346	6005	16787	-7	9	16788
10	2594	17269	19863	1337	1299	5513	16987	16	4	17007
11	2758	16866	19623	1342	1295	4722	17538	11	2	17551
12	2913	17460	20373	1220	1272	4715	18149	40	3	18192
13	2868	17754	20622	1218	1298	4429	18708	7	1	18715
14	2923	17927	20850	1174	1292	4222	19094	37	0	19131
15	3012	19184	22196	1266	1277	5270	19469	53	4	19526
16	2894	19624	22518	1331	1253	5663	19439	20	6	19466
17	2856	19475	22332	1504	1251	6385	18703	-7	6	18709
18	2780	19296	22075	1535	1257	6920	17947	-11	6	17953
19	2752	19553	22304	1596	1240	5950	19191	-17	7	19198
20	3614	21882	25496	1649	1239	6313	22071	4	4	22079
21	3667	22415	26082	1576	1260	6815	22103	54	4	22161
22	3278	22528	25806	1533	1283	6406	22215	2	63	22280
23	3697	22706	26403	1485	1320	6242	22965	12	62	23039
24	4364	22660	27024	1449	1363	6343	23494	27	1	23521

Hourly Load Generation Data of ER On Regional Lean Day During The Month of JUNE'2021 (1-6-2021)

(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	3115	19436	22550	1466	1280	4366	20930	-2	2	20931
2	3034	18164	21198	1451	1264	3137	20775	-64	2	20777
3	3195	16870	20066	1455	1304	2577	20248	-23	2	20250
4	3037	16572	19609	1468	1290	2743	19624	2	1	19627
5	3121	16606	19727	1463	1276	3344	19123	65	0	19188
6	2876	17109	19985	1476	1273	4702	18031	-19	0	18031
7	2828	16995	19823	1435	1253	5118	17394	6	0	17400
8	2894	16984	19878	1298	1257	5022	17411	5	0	17416
9	3130	16379	19509	1212	1247	4343	17624	-11	0	17624
10	3094	16362	19456	1178	1222	3950	17906	-36	0	17906
11	3278	16335	19613	1096	1205	3842	18072	11	0	18083
12	3376	16282	19658	1037	1204	3685	18214	22	2	18238
13	3151	16483	19634	1027	1193	3315	18539	37	0	18576
14	3229	17033	20261	1073	1198	3397	19135	42	0	19177
15	3240	18162	21402	1141	1149	4950	18742	2	1	18745
16	3414	17867	21281	1124	1140	5617	17928	-16	12	17940
17	3426	18083	21509	1222	1150	7705	16176	-7	11	16180
18	3280	17566	20846	1283	1144	8525	14748	3	6	14756
19	3626	17636	21262	1296	1149	7884	15822	12	9	15844
20	3874	19332	23206	1382	1176	8674	17090	-7	7	17097
21	4035	20023	24058	1407	1195	8815	17844	39	5	17888
22	3603	20690	24292	1423	1210	8887	18038	66	2	18106
23	3991	21442	25433	1418	1253	9560	18544	68	1	18613
24	3361	21698	25058	1424	1261	9541	18202	5	0	18208

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

FOR THE MONTH OF JUNE'2021

POWER CUT / RESTRICTIONS

BSPHCL NO NOTIFIED CUTS/RESTRICTIONS
However there was loadshedding of 2.07 MU

JUVNL NO NOTIFIED CUTS/RESTRICTIONS
However there was loadshedding of 16.56 MU

DVC NO NOTIFIED CUTS/RESTRICTIONS.
However there was loadshedding of 0.00 MU

ODISHA NO NOTIFIED CUTS/RESTRICTIONS
However there was loadshedding of 0.00 MU

WEST BENGAL NO NOTIFIED CUTS/RESTRICTIONS.
However there was loadshedding of 4.69 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.

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	398	413	396	421	392	413	388

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	419	387	410	394	407	397	417	396

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
Jun-21**

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(30-06-21)	(30-06-20)		
Hirakud	192	180	184.68	184.68	184.16	01.06.21
Balimela	462	439	445.95	445.47	446.17	01.06.21
Rengali	123	109	115.40	112.56	114.36	01.06.21
Upperkolab	858	844	846.66	848.84	845.82	01.06.21
Indravati	642	625	630.10	631.82	630.18	01.06.21
Subernrekha	590	580	585.52	585.00	585.58	01.06.21

B.

CPP/IPP IMPORT by Eastern Region Constituents during Jun-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	39.68
West Bengal	59.90	25.73	0	0	0	0	0	123.19	208.82
ODISHA	0	0	22.83	422.77	3.62	11.60	0	393.00	853.81
DVC	0	0	0	0	0	0	11.18	0	11.18
TOTAL	59.90	25.73	22.83	422.77	3.62	11.60	11.18	516.19	1113.49

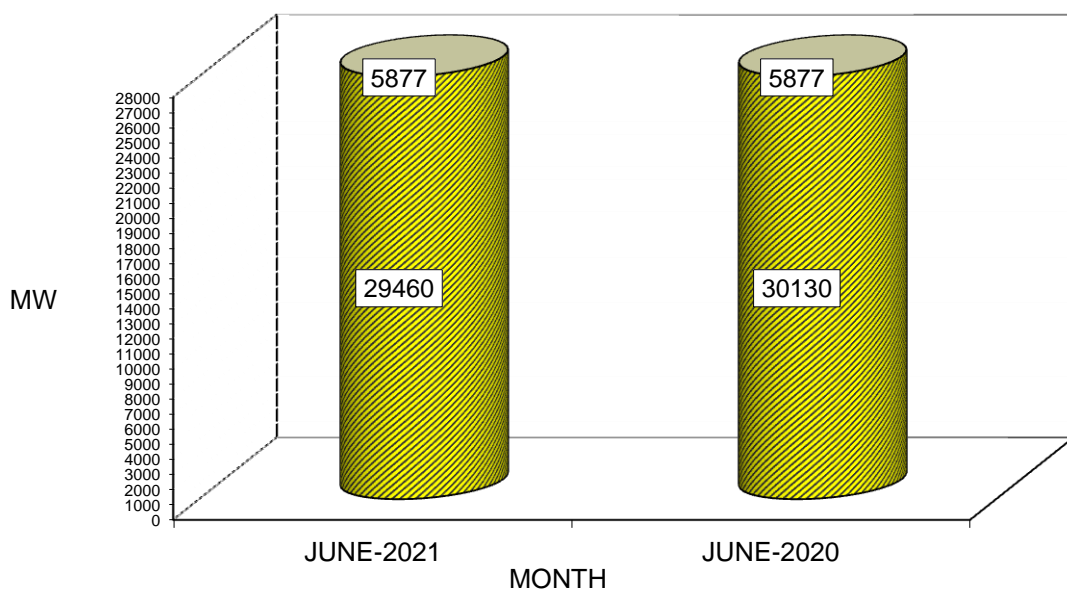
C.

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

(All figs. are in MU)

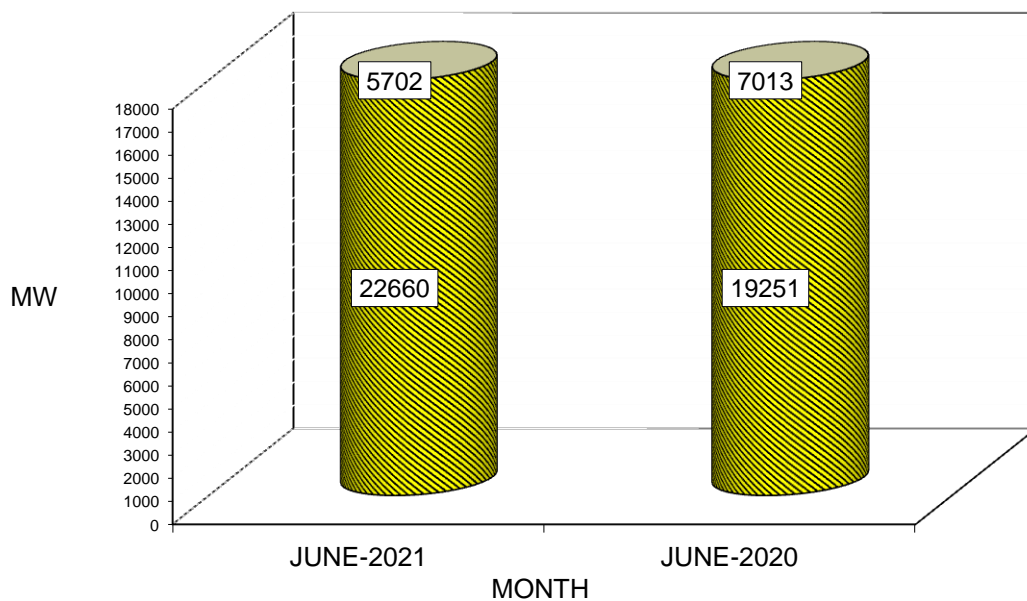
IPP	TPDDL	WBSEDCL/ WBPDCD	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	177.37	157.14	92.38	0.00	0	0	175.70	602.59
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
Total	177.37	157.14	92.38	0.00	0.00	0.00	175.70	602.59

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



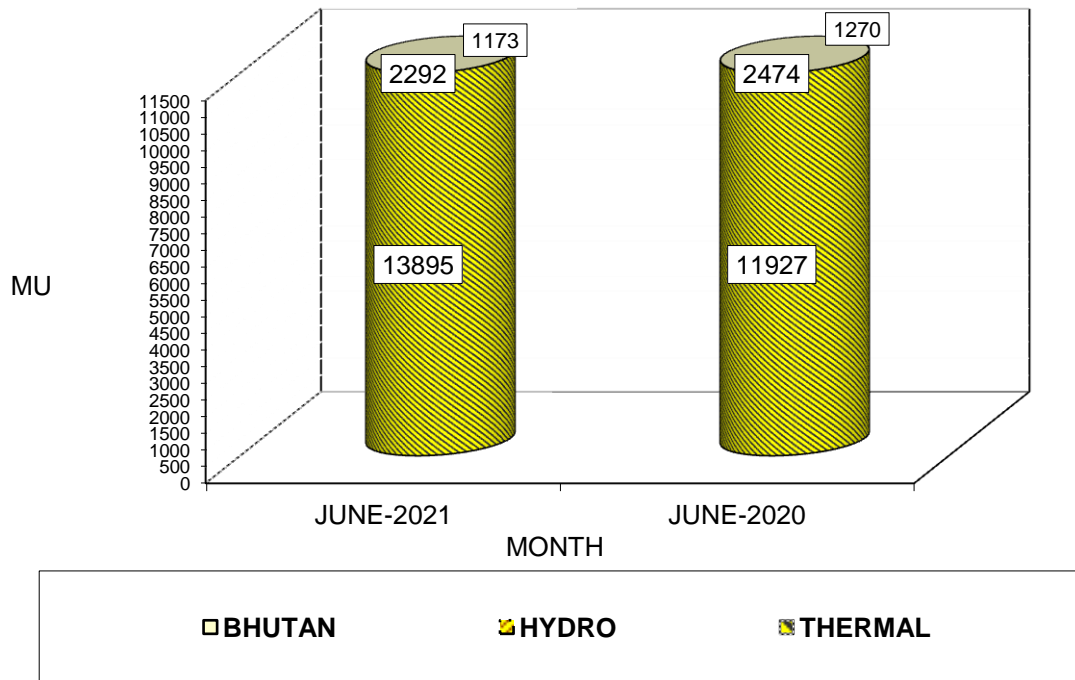
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

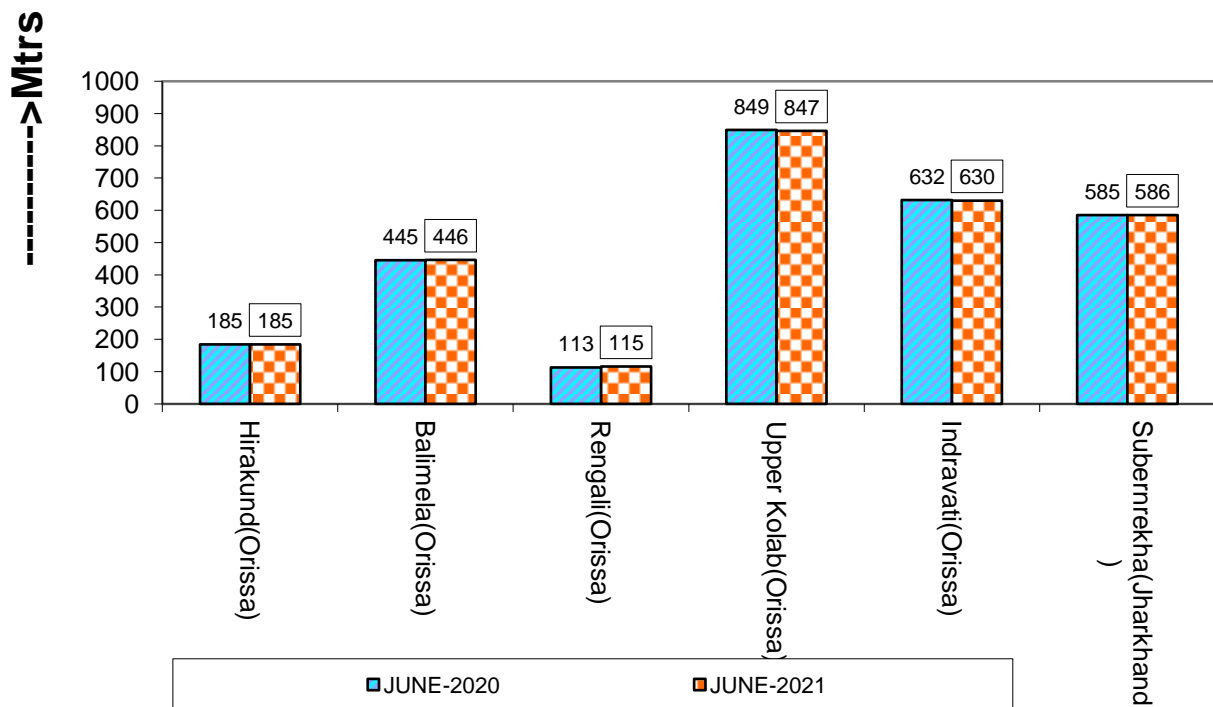


*Includes contribution from HEP of Bhutan

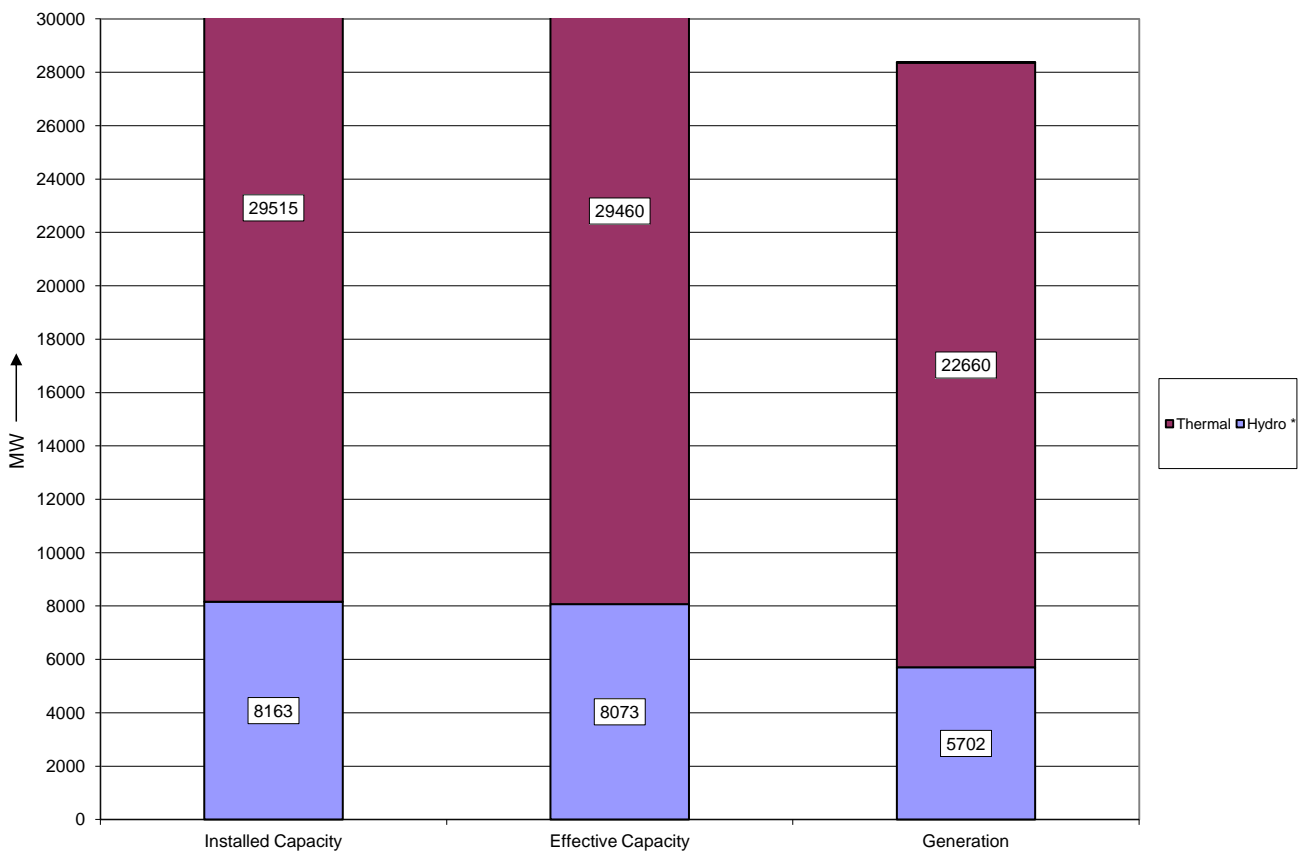
NET ENERGY GENERATION



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

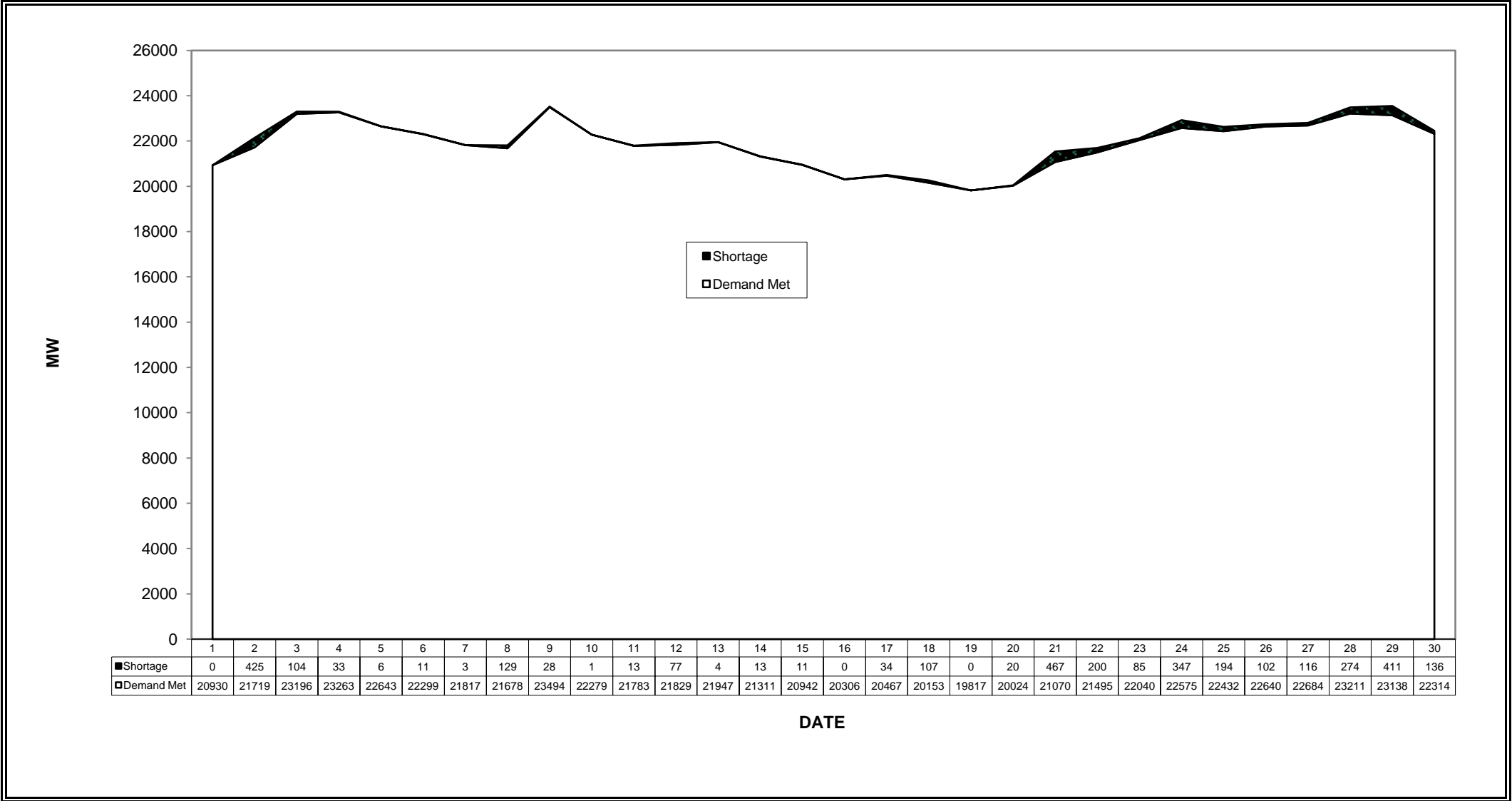


Capacity / Actual Generation Pattern of ER on Peak Day (9-6-2021) at 24.00 hrs.

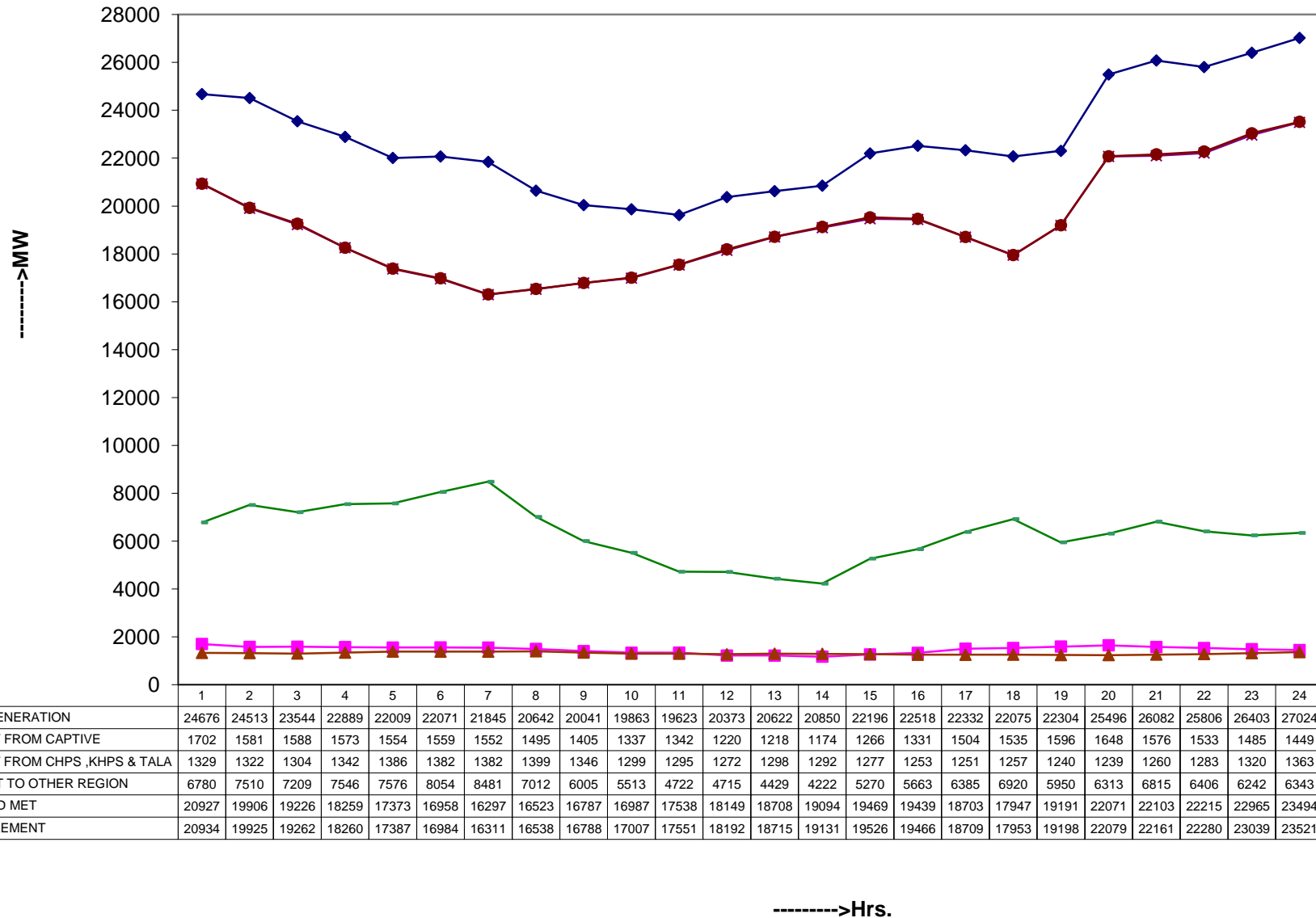


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

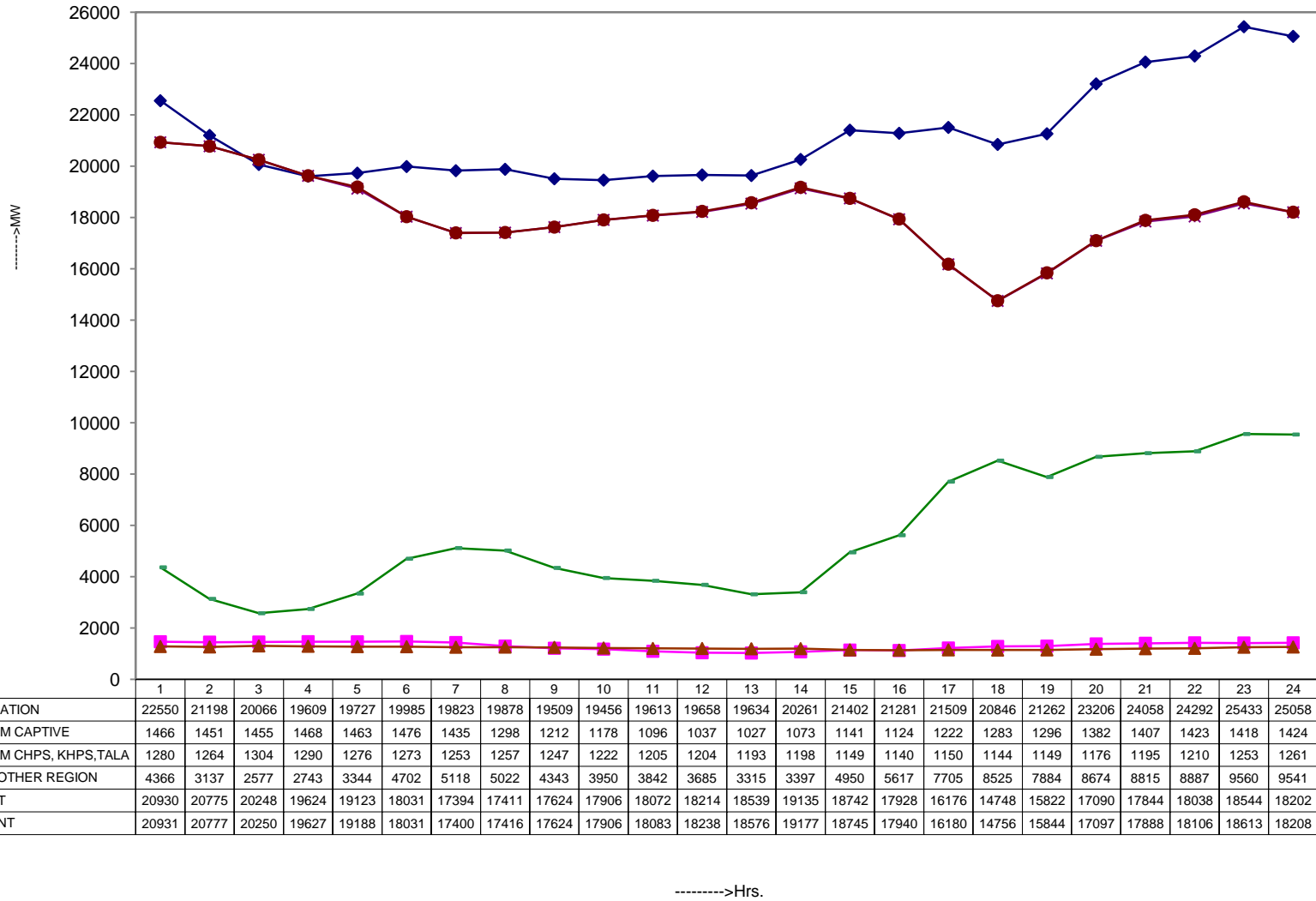
Peak Demand Met / Shortage of Eastern Region For The Month Of JUNE'2021



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JUNE'2021 (9-6-2021)

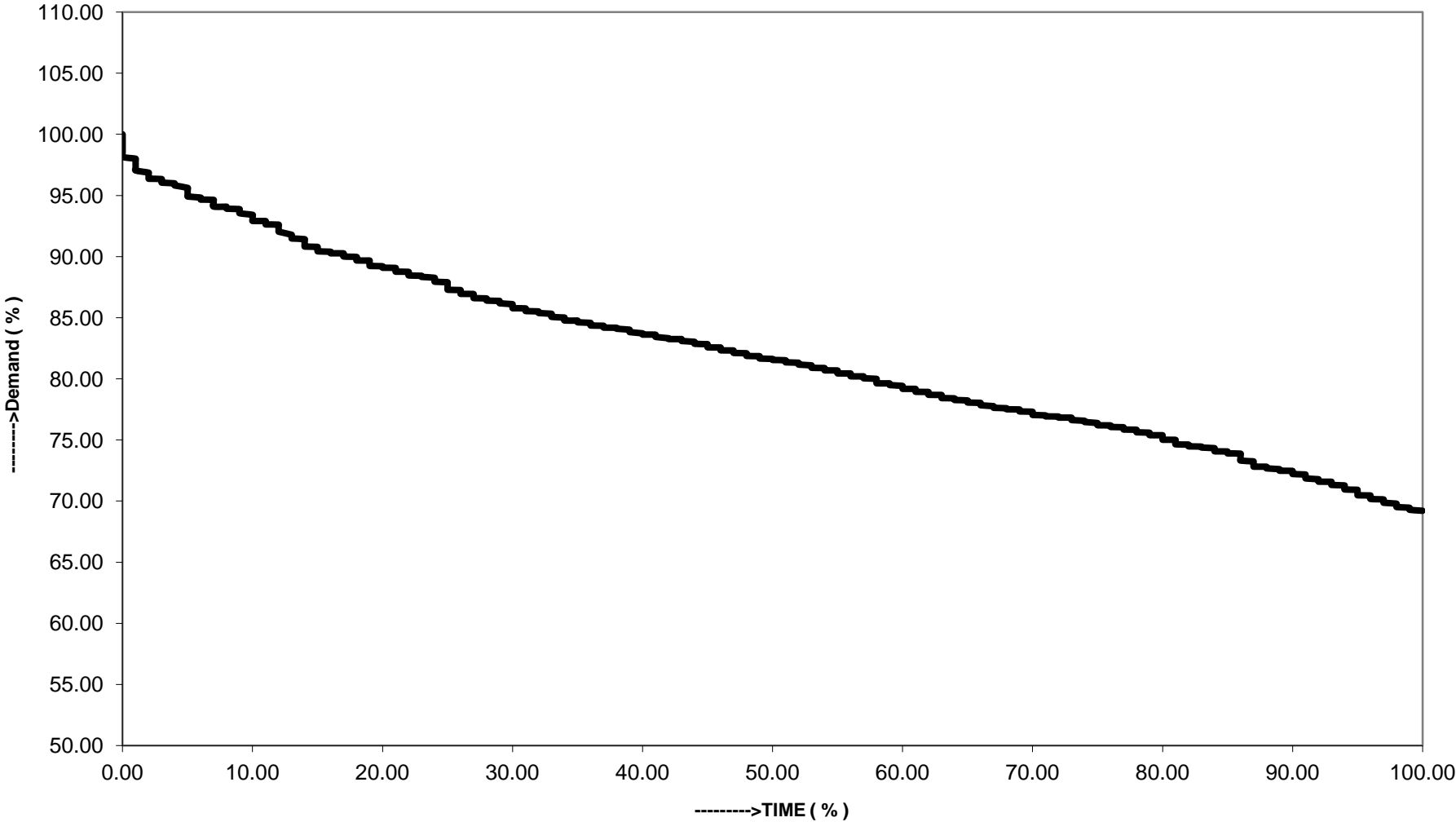


Hourly Load Generation Data of ER On Regional Lean Day During The Month of JUNE'2021 (1-6-2021)



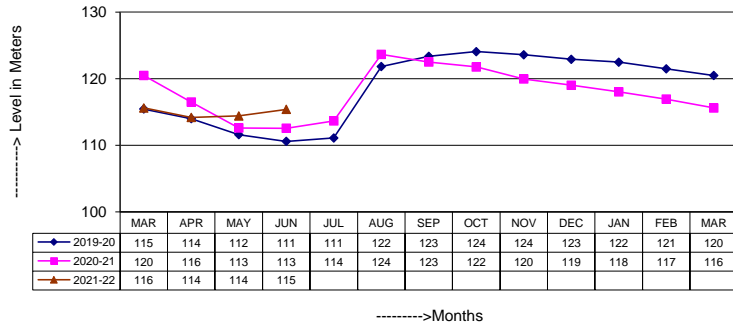
Monthly Load Duration Curve of Eastern Region for JUNE-2021

Maximum Demand met : 23494 MW
Minimum Demand met: 14748 MW

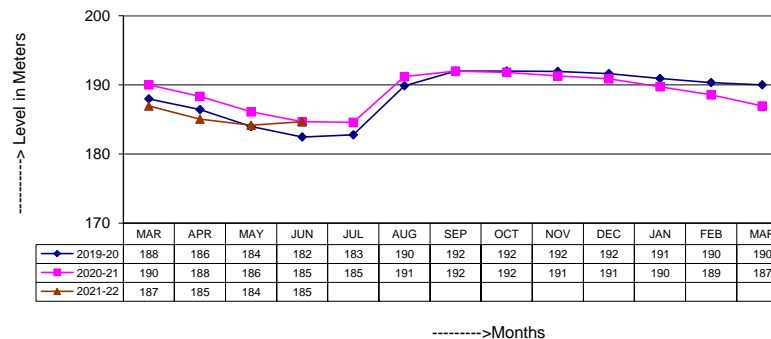


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

RENGALI RESERVOIR LEVEL



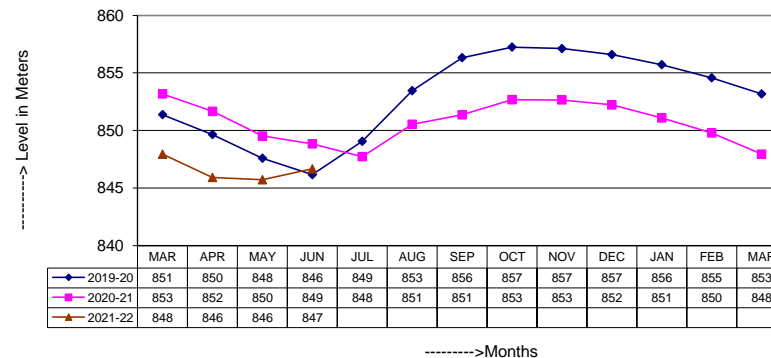
HIRAKUD RESERVOIR LEVEL



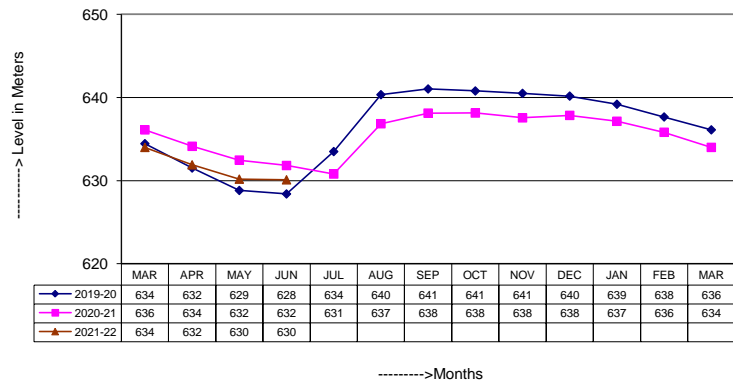
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

