



सत्यमेव जयते

Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

अप्रैल - 2021

April-2021



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for April - 2021

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **Apr, 2021** was **24405 MW** which is **34.89%** more than the **Apr, 2020** (18093 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 **Apr, 2021** was **495.89 MU** excluding export, which is **53.38%** more than the corresponding period of last year (323.30 MU).
- **The Average regional PLF of thermal units during the month is 78.63 %**, which is **27.62%** more than the corresponding period of the last year (**51.01%**).
WBPDC (Bakreswar TPP) registered the highest **PLF** of **100.96%**, followed by WBPDC (Santalidih TPS) **99.70%** and APNRL (IPP) **98.61%** during the month of **Apr, 2021**.
- **Maximum Net generation** was **27270 MW** against total **Effective Capacity of 39231.26 MW** (including import from Bhutan). At the time of Regional peak (**24405 MW** on 27.04.2021 at 23.00 hrs.) the generation was **26591 MW** and import from CPP was **1317 MW**, Net export was **3504 MW**.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for **75.06%** of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were **50.29 Hz** and **49.69 Hz** respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.15 Hz** and **49.75 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **422 KV** at Binaguri 400 KV S/s whereas the minimum voltage recorded **374 KV** at Jeypore 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 8286 MW (including Nepal and Bangladesh) on 19th Apr, 2021 at 08:00 hrs. Total net energy export during the month was 3004.66 MU (Inc.Transmission loss) MU which is corresponds to 17.84 % of ex-bus total generation 16844.16 MU of Eastern Region.**
- **The import from CPPs was 1037.29 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	3739	1107	1224.94
WR	532	3304	-1283.33
SR	4663	0	2199.66
NER	1154	896	34.84
BANGLADESH	940	0	582.45
NEPAL (via-CTU)	443	0	243.10
Kuru.HEP(Bhutan)	32	41.84	3.00
Total(Inc.Kuru.HEP Im)	8286	4074	3004.66
NEPAL by Bihar(NBPDCL)			199.53

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Apr-21	APRIL-2020	CHANGE	% CHANGE
1) Effective Capacity (end of the Month)					
THERMAL	(MW)	29670	30240	-570	-1.88
HYDRO	(MW)	5877	\$ 5877	0	0
DIESEL	(MW)	0	0	0	0
RES	(MW)	1489	1489	0	0
TOTAL	(MW)	37035	37606	-571	-1.52
2) Peak Demand (MW)		24405	18302	6103	33.35
3) Peak Demand Met (MW)		24405	18093	6312	34.89
4) Shortage (MW)		0	209	-209	0.00
5) % Shortage		0.00	1.14	-1.14	0.00
6) Average Energy Requirement Per Day (MU)		497.87	324.20	173.67	53.57
7) Average Energy Availability Per Day (MU)		495.89	323.30	172.59	53.38
8) Average Shortage Per Day (MU)		1.98	0.93	1.05	112.98
9) % Shortage		0.40	0.29	0.11	38.30
10) Net Generation for the Month					
Thermal (MU)		15567.74	10219.07	5348.67	52.34
Hydro (MU)		1177.49	* 1587.58	-410.09	-25.83
RES (MU)		98.94	158.19	0.00	-
Total (MU)		16844.16	11964.84	4879.32	40.78
11) Generation at the Time of Max. Regional Demand Met (27-04-21 at 23.00 Hrs.)					
Thermal (MW)		22799	16514	6285	38.06
Hydro (MW)		3774	* 4014	-240	-5.98
RES(MW)		19	30	-11	-37.99
Total (MW)		26591	20558	6033	29.35
12) Inter-Regional Energy Transfer					
Export (MU)		4287.99	3839.25	448.74	11.69
Import (MU)		1283.33	960.31	323.02	33.64
Net Exp.(+)/Net Imp.(-) (MU)		3004.66	2878.95	125.71	4.37
13) Import From Captive(MU)		1037.29	612.14	425.15	69.45
14) Peak Inter Regional Power Transfer					
Max Export (MW) on 19-04-21 at 08.00Hrs		8286	8747	-461	-5.26
Max Import (MW) on 25-04-21 at 14.00Hrs		4074	3204	870	27.14
Max Net Export(+)/Import (-) (MW)		7876	7697	179	2.33
15) Maximum voltage recorded		422	BINAGURI	400 kv s/s	
16) Minimum voltage recorded		374	JEYPORE	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 APRIL'2021

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	110.03	110.69	0.66	0.59
JUVNL	30.74	31.95	1.21	3.80
DVC	67.58	67.61	0.03	0.05
ODISHA	104.70	104.75	0.05	0.05
WBSEDCL	146.55	146.85	0.30	0.21
CESC	34.47	34.49	0.02	0.05
SIKKIM	1.54	1.54	0.00	0.05
REGION	495.89	497.87	1.98	0.40

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5795	6011	216	3.59
JUVNL	1582	1719	137	7.98
DVC	3085	3086	1	0.04
ODISHA	5353	5355	2	0.04
WBSEDCL	7417	7419	2	0.03
CESC	2006	2013	7	0.4
SIKKIM	105	105	0	0.00
REGION	24405	24405	0	0.00

➤ **DIVERSITY FACTOR : 1.04**

➤ **Regional Peak Demand Met on 27-4-2021 at 23.00 hrs. at 50.02 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA APRIL-2021

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from Captive (MU)	Exchange Net Import(+) Net Export(-)	Energy Consumption(MU)	Per Day Cons.(MU)	Net Peak Demand Met (MW)	Gross Peak Demand Met (MW)
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total						
BSPHCL	0.00	273.77	21.02	294.80	0.00	37.45	0.00	37.45	0.00	236.32	21.02	257.34	0.00	3043.58	3300.92	110.0	5795	5850
JUVNL	0.00	168.93	0.00	168.93	0.00	19.15	0.00	19.15	0.00	149.78	0.00	149.78	55.25	717.03	922.06	30.7	1582	1612
DVC	15.24	3685.24	0.00	3700.48	0.12	252.24	0.00	252.36	15.12	3433.01	0.00	3448.12	14.22	-1435.05	2027.30	67.6	3085	3446
ODISHA(OPGC+OHPC+TTPS)	385.39	692.58	62.52	1140.48	4.64	60.99	0.00	65.62	380.75	631.59	62.52	1074.86	760.98	1305.09	3140.93	104.70	5353	5420
WBPDCI+WBSIEDCL+DPL	76.39	3158.56	13.14	3248.09	0.00	267.15	0.00	267.15	76.39	2891.40	13.14	2980.93	206.84	1208.68	4396.45	146.5	7417	7840
CESC	0.00	559.63	0.00	559.63	0.00	42.06	0.00	42.06	0.00	517.57	0.00	517.57	0.00	516.49	1034.05	34.5	2006	2076
HEL	0.00	419.64	0.00	419.64	0.00	30.31	0.00	30.31	0.00	389.33	0.00	389.33	0.00	-389.33				
SIKKIM	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	45.28	46.28	1.5	105	105
NTPC	0.00	5597.02	1.25	5598.27	0.00	405.51	0.00	405.51	0.00	5191.51	1.25	5192.76	0.00	-5192.76				
MPL	0.00	717.63	0.00	717.63	0.00	39.53	0.00	39.53	0.00	678.10	0.00	678.10	0.00	-678.10				
APNRL	0.00	383.40	0.00	383.40	0.00	33.38	0.00	33.38	0.00	350.02	0.00	350.02	0.00	-350.02				
GMR	0.00	435.00	0.00	435.00	0.00	28.72	0.00	28.72	0.00	406.28	0.00	406.28	0.00	-406.28				
JITPL	0.00	739.16	0.00	739.16	0.00	46.36	0.00	46.36	0.00	692.80	0.00	692.80	0.00	-692.80				
NHPC (Inc TLDP= 53.02MU)	218.62	0.00	0.00	218.62	0.00	0.00	0.00	0.00	218.62	0.00	0.00	218.62	0.00	-218.62	0.00			
CHUZACHEN HPS	17.06	0.00	0.00	17.06	0.00	0.00	0.00	0.00	17.06	0.00	0.00	17.06	0.00	-17.06	0.00			
DIKCHU HPS	23.25	0.00	0.00	23.25	0.00	0.00	0.00	0.00	23.25	0.00	0.00	23.25	0.00	-23.25	0.00			
JORHANG HPS	11.41	0.00	0.00	11.41	0.00	0.00	0.00	0.00	11.41	0.00	0.00	11.41	0.00	-11.41	0.00			
TASHIDING HPS	11.71	0.00	0.00	11.71	0.00	0.00	0.00	0.00	11.71	0.00	0.00	11.71	0.00	-11.71	0.00			
TEESTA-III HPS	270.02	0.00	0.00	270.02	0.00	0.00	0.00	0.00	270.02	0.00	0.00	270.02	0.00	-270.02	0.00			
RONGNICHU HEP	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	-0.05	0.00			
CHPC(Birpara Receipt)	34.76	0.00	0.00	34.76	0.00	0.00	0.00	0.00	34.76	0.00	0.00	34.76	0.00	-34.76	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	16.86	0.00	0.00	16.86	0.00	0.00	0.00	0.00	16.86	0.00	0.00	16.86	0.00	-16.86	0.00			
DAGACHU HPS	10.43	0.00	0.00	10.43	0.00	0.00	0.00	0.00	10.43	0.00	0.00	10.43	0.00	-10.43	0.00			
Mangdechhu HEP	91.05	0.00	0.00	91.05	0.00	0.00	0.00	0.00	91.05	0.00	0.00	91.05	0.00	-91.05	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														8.72	8.72			
Total	1182.24	16830.56	98.93	18111.73	4.76	1262.85	0.00	1267.61	1177.48	15567.71	98.93	16844.12	1037.29	-3004.69	14876.72	495.9	24405	26076

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	357.93	360.37	2.45	0.68	50.00	-	-	-	-	-
JUNE	425.23	425.91	0.69	0.16	50.00	-	-	-	-	-
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	-	-	-	-	-
JUNE	21832	21989	156	0.71	50.00	-	-	-	-	-
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 APRIL -2021

ORGANI-SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	Net Energy Generation in MU	Cummulative Gross Energy Generation upto Current Month (2021-22) in MU	Cummulative Net Energy Generation upto Current Month (2021-22) in MU	
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.05	-0.60	0.05	-0.60	
		Thermal	Barauni (U# 8)	250.00	250.00	161.70	138.23	161.70	138.23
			Barauni (U# 9)	0.00	0.00	0.00	0.00	0.00	
			Muzaffarpur Stg-I	220.00	220.00	112.02	98.69	112.02	98.69
			Thermal Total	690.00	680.00	273.77	236.32	273.77	236.32
	RES			341.25	341.25	21.02	21.02	21.02	21.02
			Total BIHAR	1031.25	1021.25	294.80	257.34	294.80	257.34
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	168.93	149.78	168.93	149.78	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00	0.00	0.00	0.00	
	RES		46.75	46.75	0.00	0.00	0.00	0.00	
		Total	176.75	176.75	0.00	0.00	0.00	0.00	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	-0.88	0.00	-0.88	
		Chandrapura(U7 # 8)	500.00	500.00	297.25	267.94	297.25	267.94	
		Durgapur(4)	210.00	210.00	0.00	-0.49	0.00	-0.49	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	751.39	676.16	751.39	676.16	
		Mezia(U # 7,8)	1000.00	1000.00	580.34	548.22	580.34	548.22	
		Bokaro-A(1)	500.00	500.00	233.22	219.39	233.22	219.39	
		Durgapur STPS (U#1,2)	1000.00	1000.00	625.52	592.27	625.52	592.27	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	556.52	523.99	556.52	523.99	
		Koderma STPS (U#1,2)	1000.00	1000.00	641.01	606.42	641.01	606.42	
		Total Thermal	6960.00	6960.00	3685.25	3433.01	3685.25	3433.01	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	13.22	13.19	13.22	13.19	
		Panchet (U#1,2)	80.00	80.00	2.02	1.94	2.02	1.94	
		Tilaya (U#1,2)	4.00	4.00	0.00	0.0	0.00	0.0	
		Hydro Total	147.20	147.20	15.24	15.12	15.24	15.12	
		Total DVC	7107.20	7107.20	3700.48	3448.13	3700.48	3448.13	
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	380.00	335.00	170.85	154.59	170.85	154.59	
		Santalidih TPS(U#5&6)	500.00	500.00	358.92	330.52	358.92	330.52	
		Kolaghat TPS	1260.00	1260.00	495.39	444.00	495.39	444.00	
		Bakreswar TPP	1050.00	1050.00	763.24	700.26	763.24	700.26	
		Sagardighi TPP	1600.00	1600.00	1113.46	1030.69	1113.46	1030.69	
		DPPS (300+250 *)	550.00	550.00	256.70	231.35	256.70	231.35	
		Thermal Total	5340.00	5295.00	3158.56	2891.41	3158.56	2891.41	
		WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	8.62	8.62	8.62
Ramam (4x12.73)	51.00			51.00	7.64	7.64	7.64	7.64	
Teesta C.F. (3x3x7.5)	67.50			67.50	0.00	0.00	0.00	0.00	
Purulia PSS (4x225)	900.00			900.00	60.14	60.14	60.14	60.14	
Total Hydro	1053.50			1053.50	76.39	76.39	76.39	76.39	
RES		527.29	527.29	13.14	13.14	13.14	13.14		

- Chandrapura #1 is retired on 17.01.17
- Patratu # 1,2,3,5,8 are retired on 21.12.16

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

ORGANISATION	TYPE	POWER STATION	INSTALLED	EFFECTIVE	Gross	Net	Cummulative Gross	Cummulative Net	
			CAPACITY	CAPACITY	Energy	Energy	Energy Generation	Energy Generation	
			(in MW)	(in MW)	in MU	in MU	upto Current Month (2021-22) in MU	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	41.19	37.52	41.19	37.52	
		Budge-Budge (3x250)	750.00	750.00	518.44	480.05	518.44	480.05	
		Total CESC	1125.00	1125.00	559.63	517.57	559.63	517.57	
HEL	Thermal	HEL	600.00	600.00	419.64	389.33	419.64	389.33	
		Total West Bengal	8645.79	8600.79	4227.35	3887.84	4227.35	3887.84	
ODISHA	Thermal	IB TPS	420.00	420.00	237.10	210.09	237.10	210.09	
OPGC		IB TPS U#3(660 MW)	660.00	660.00	280.77	259.84	280.77	259.84	
		IB TPS U#4(660 MW)	660.00	660.00	174.71	161.68	174.71	161.68	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	24.57	24.43	24.57	24.43	
		Hirakud-II (Chiplima)	72.00	72.00	17.69	17.60	17.69	17.60	
		Balimela (6x60+2x75)	510.00	510.00	70.55	69.67	70.55	69.67	
		Rengali (5x50)	250.00	250.00	26.10	25.99	26.10	25.99	
		Upper Kolab (4x80)	320.00	320.00	58.92	58.56	58.92	58.56	
		Indravati HPS (4x150)	600.00	600.00	168.48	165.43	168.48	165.43	
		Mckd.(Odisha drawal)	57.38	57.38	19.07	19.07	19.07	19.07	
		Total Hydro	2084.88	2084.88	385.38	380.75	385.38	380.75	
		RES	511.21	511.21	62.52	62.52	62.52	62.52	
		Total Odisha	4336.09	4336.09	1140.48	1074.88	1140.48	1074.88	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	1.00	1.00	
NTPC		MTPS Stg-II	390.00	390.00	249.677	225.83	249.68	225.83	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	669.54	610.29	669.54	610.29	
		FSTPP (U# 6)	500.00	500.00	327.70	303.04	327.70	303.04	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1628.81	1519.08	1628.81	1519.08	
		TSTPP (2x500)	1000.00	1000.00	479.64	442.39	479.64	442.39	
		BARH STPS II (2X660)	1320.00	1320.00	828.67	784.10	828.67	784.10	
		BARH STPS I (1X660)			8.94	0.00	8.94	0.00	
		BRBCL # 1,2,3(3X250 MW)	750	750	507.15	469.95	507.15	469.95	
		NSTPS U#I	660.00	660.00	420.72	399.82	420.72	399.82	
		NSTPS U#II			1.64	0.00	1.64	0.00	
		DSTPP #1	800.00	800.00	451.07	422.89	451.07	422.89	
		DSTPP #2			23.46	14.12	23.46	14.12	
		Total NTPC	9360.00	9360.00	5597.02	5191.52	5597.02	5191.52	
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	14.79	14.79	14.79	14.79	
		Teesta (3x170)	510.00	510.00	150.81	150.81	150.81	150.81	
		TLDP - (4x33+4x40)	292.00	292.00	53.02	53.02	53.02	53.02	
		Total NHPC	862.00	862.00	218.63	218.63	218.63	218.63	
			MPL (U#1&2)	1050.00	1050.00	717.63	678.10	717.63	678.10
			APNRL (U#1,2)	540.00	540.00	383.40	350.02	383.40	350.02
			GMR (2x350)	700.00	700.00	435.00	406.28	435.00	406.28
			JITPL (2X600)	1200.00	1200.00	739.17	692.80	739.17	692.80
			CHUZACHEN** (2x55)	110.00	110.00	17.06	17.06	17.06	17.06
			JORETHANG (2x48)	96.00	96.00	11.41	11.41	11.41	11.41
			TEESTA URJA St III (6x200)	1200.00	1200.00	270.02	270.02	270.02	270.02
			Tashilding (2x48.5)	97.00	97.00	11.71	11.71	11.71	11.71
			DICKCHU (2x48)	96.00	96.00	23.25	23.25	23.25	23.25
			RONGNICHU HEP			0.05	0.05	0.05	0.05
TALCHER SOLAR	10.00	10.00	1.25	1.25	1.25	1.25			
Total Thermal (E.R)	29725.00	29670.00	16830.57	15567.74	16830.57	15567.74			
Total Hydro (E.R)	5876.58	5876.58	1029.15	1024.39	1029.15	1024.39			
Total RES	1488.68	1488.68	98.94	98.94	98.94	98.94			
EASTERN REGIONAL		TOTAL (E.R)	37090.26	37035.26	17958.65	16691.07	17958.65	16691.07	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	34.76	34.76	34.76	34.76	
		Kurichu (4x15)	60.00	60.00	0.00	0.00	0.00	0.00	
		TALA (6x170)	1020.00	1020.00	16.86	16.86	16.86	16.86	
		DAGACHU (2x63)	126.00	126.00	10.43	10.43	10.43	10.43	
		MANGDECHU(4x180)	720.00	720.00	91.05	91.05	91.05	91.05	
		Grand Total	39376.26	39231.26	18111.75	16844.16	18111.75	16844.16	

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF APRIL' 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	0.05	0.03	0.05	0.03	
	Thermal	Barauni (U# 8)	250.00	250.00	161.70	89.83	161.70	89.83	
		Barauni (U# 9)	0.00	0.00	0.00	0.00	0.00	0.00	
		Muzaffarpur Stg-I	220.00	220.00	112.02	70.72	112.02	70.72	
		Thermal Total	690.00	680.00	273.77	55.92	273.77	55.92	
	RES		341.25	341.25	21.02		21.02		
		Total BIHAR	1031.25	1021.25	294.80		294.80		
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	168.93	55.86	168.93	55.86	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00		0.00		
	RES		46.75	46.75	0.00		0.00		
		Total	176.75	176.75	0.00		0.00		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	297.25	82.57	297.25	82.57	
		Durgapur(4)	210.00	210.00	0.00	0.00	0.00	0.00	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	751.39	77.88	751.39	77.88	
		Mezia(U # 7,8)	1000.00	1000.00	580.34	80.60	580.34	80.60	
		Bokaro-A(1)	500.00	500.00	233.22	64.78	233.22	64.78	
		Durgapur STPS (U#1,2)	1000.00	1000.00	625.52	86.88	625.52	86.88	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	556.52	64.41	556.52	64.41	
		Koderma STPS (U#1,2)	1000.00	1000.00	641.01	89.03	641.01	89.03	
		Total Thermal	6960.00	6960.00	3685.25	73.54	3685.25	73.54	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	13.22		13.22		
		Panchet (U#1,2)	80.00	80.00	2.02		2.02		
		Tilaya (U#1,2)	4.00	4.00	0.00		0.00		
			Hydro Total	147.20	147.20	15.24		15.24	
	Total DVC	7107.20	7107.20	3700.48		3700.48			
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	380.00	335.00	170.85	70.83	170.85	70.83	
		Santalidih TPS(U#5&6)	500.00	500.00	358.92	99.70	358.92	99.70	
		Kolaghat TPS	1260.00	1260.00	495.39	54.61	495.39	54.61	
		Bakreswar TPP	1050.00	1050.00	763.24	100.96	763.24	100.96	
		Sagardighi TPP	1600.00	1600.00	1113.46	96.65	1113.46	96.65	
		DPPS (300+250 *)	550.00	550.00	256.70	64.82	256.70	64.82	
			Thermal Total	5340.00	5295.00	3158.56	82.85	3158.56	82.85
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	8.62		8.62		
		Ramam (4x12.73)	51.00	51.00	7.64		7.64		
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		0.00		
		Purulia PSS (4x225)	900.00	900.00	60.14		60.14		
			Total Hydro	1053.50	1053.50	76.39		76.39	
			RES	527.29	527.29	13.14		13.14	
WBPDCL,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 APRIL' 2021

ORGANI- SATION	TYPE	POWER STATION	INSTALLED EFFECTIVE		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 (%)
			CAPACITY (in MW)	CAPACITY (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	41.19	42.37	41.19	42.37
		Budge-Budge (3x250)	750.00	750.00	518.44	96.01	518.44	96.01
		Total CESC	1125.00	1125.00	559.63	69.09	559.63	69.09
HEL	Thermal		600.00	600.00	419.64	97.14	419.64	97.14
		Total West Bengal	8645.79	8600.79	4227.35		4227.35	
ODISHA	Thermal	IB TPS	420.00	420.00	237.10	78.41	237.10	78.41
OPGC		IB TPS U#3(660 MW)	660.00	660.00	280.77	59.08	280.77	59.08
		IB TPS U#4(660 MW)	660.00	660.00	174.71	36.77	174.71	36.77
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	24.57		24.57	
		Hirakud-II (Chiplima)	72.00	72.00	17.69		17.69	
		Balimela (6x60+2x75)	510.00	510.00	70.55		70.55	
		Rengali (5x50)	250.00	250.00	26.10		26.10	
		Upper Kolab (4x80)	320.00	320.00	58.92		58.92	
		Indravati HPS (4x150)	600.00	600.00	168.48		168.48	
		Mckd.(Odisha drawal)	57.38	57.38	19.07		19.07	
		Total Hydro	2084.88	2084.88	385.38		385.38	
		RES	511.21	511.21	62.52		62.52	
		Total Odisha	4336.09	4336.09	1140.48		1140.48	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		1.00	
NTPC		MTPS Stg-II	390	390	249.677	88.92	249.68	88.92
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	669.54	58.12	669.54	58.12
		FSTPP (U# 6)	500.00	500.00	327.70	91.03	327.70	91.03
		KhSTPP (4x210+3x500)	2340.00	2340.00	1628.81	96.68	1628.81	96.68
		TSTPP (2x500)	1000.00	1000.00	479.64	66.62	479.64	66.62
		BARH STPS II (2X660)	1320.00	1320.00	828.67	87.19	828.67	87.19
		BARH STPS I (1X660)			8.94		8.94	
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	507.15	93.92	507.15	93.92
		NSTPS U#I	660.00	660.00	420.72	88.54	420.72	88.54
		NSTPS U#II			1.64		1.64	
		DSTPP #1	800.00	800.00	451.07	78.31	451.07	78.31
		Total NTPC	9360.00	9360.00	5597.02	82.55	5597.02	82.55
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	14.79	
Teesta (3x170)	510.00			510.00	150.81		150.81	
TLDP -(4x33+4x40)	292.00			292.00	53.02		53.02	
Total NHPC	862.00			862.00	218.63		218.63	
Thermal	MPL (U#1&2)		1050.00	1050.00	717.63	94.92	717.63	94.92
	APNRL (U#1,2)		540.00	540.00	383.40	98.61	383.40	98.61
	GMR (2x350)		700.00	700.00	435.00	86.31	435.00	86.31
	JITPL (2X600)		1200.00	1200.00	739.17	85.55	739.17	85.55
	CHUZACHEN** (2x55)		110.00	110.00	17.06		17.06	
	JORETHANG (2x48)		96.00	96.00	11.41		11.41	
	TEESTA URJA St III (6x200)		1200.00	1200.00	270.02		270.02	
	Tashilding (2x48.5)		97.00	97.00	11.71		11.71	
	DICKCHU (2x48)		96.00	96.00	23.25		23.25	
	ROGNICHU HEP				0.05		0.05	
TALCHER SOLAR	10.00	10.00	1.25		1.25			
Total Thermal (E.R)	29725.00	29670.00	16830.57	78.63	16830.57	78.63		
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	1029.15		1029.15	
		Total RES	1488.68	1488.68	98.94		98.94	
		TOTAL (E.R)	37090.26	37035.26	17958.65		17958.65	
BHUTAN	Hydro	CHPC(4x90)	360.00	360.00	270.00	34.76	34.76	
		Kurichu (4x15)	60.00	60.00	0.00		0.00	
		TALA (6x170)	1020.00	1020.00	16.86		16.86	
		DAGACHU (2x63)	126.00	126.00	10.43		10.43	
		MANGDECHU(4x180)	720.00	720.00	91.05		91.05	
Grand Total	39376.26	39231.26	18111.75		18111.75			

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF APRIL'2021 (27-4-2021)

Date 27-Apr-21
Time 23.00 Hrs.
Frequency 50.02 Hz.

System/State	Installed	Effective	Hydro	Thermal	RES	(All Fig. in MW)	
	Capacity	Capacity				Net Gen	
BSPHCL	1031	1021	0	340	0		340
JUVNL	597	597	0	122	0		122
DVC	7107	7107	20	4545	0		4565
ODISHA	4336	4336	987	1217	19		2222
WBSEDCL	6371	6326	630	4108	0		4738
TLDP	292	292	11	0	0		11
HEL HALDIA	600	600	0	545	0		545
CESC	1125	1125	0	826	0		826
DPL	550	550	0	0	0		0
SIKKIM	52	52	0	0	0		0
NTPC	9360	9360	0	7850	0		7850
NHPC	570	570	364	0	0		364
CHUKHA	360	270	123	0	0		123
KURICHU	60	60	-5	0	0		-5
TALA	1020	1020	60	0	0		60
MPL	1050	1050	0	991	0		991
OPGC (660 MW)	0	0	0	0	0		0
APNRL	540	540	0	483	0		483
Kamalganga (GMR)	700	700	0	660	0		660
JITPL	1200	1200	0	1112	0		1112
Chuzachen	110	110	32	0	0		32
Jorethang	96	96	43	0	0		43
TEESTA URJA St III	1200	1200	1159	0	0		1159
Tashilding	97	97	0	0	0		0
DICKCHU	96	96	80	0	0		80
<u>Daghachu</u>	126	126	13	0	0		13
<u>Solar</u>	10	10	0	0	0		0
<u>Mangdechu</u>	720	720	257	0	0		257
<u>Total</u>	39376	39231	3774	22799	19		26591
Import From Captive:							1317
Export To:							
NER							173
SR							2874
WR							-2637
NR							2077
Bangladesh							645
Nepal							371
Total							3504
> I Net Peak Demand Met (MW) :							24405

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of APRIL'2021 (27-4-2021)

(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	2154	21607	23762	1329	345	2917	22518	-2	0	22518
2	1587	21737	23324	1342	341	2868	22139	25	0	22165
3	1507	22079	23586	1271	339	3413	21782	17	0	21800
4	1136	22200	23335	1233	349	3528	21389	-2	0	21389
5	1143	22252	23395	1254	333	4067	20915	9	0	20925
6	1493	22145	23637	1253	302	5304	19889	14	0	19903
7	1400	22069	23469	1273	280	5697	19325	-15	0	19325
8	1152	21821	22973	1223	293	5559	18930	-48	3	18933
9	1323	21749	23072	1062	302	5189	19246	-29	3	19249
10	1349	21959	23308	1043	301	5347	19306	22	2	19329
11	822	21981	22803	980	306	4392	19697	-7	0	19697
12	724	22039	22762	978	315	3749	20307	14	0	20321
13	918	22008	22926	966	306	3374	20825	29	0	20854
14	755	21746	22500	999	303	2876	20926	44	0	20970
15	1229	22221	23450	1078	296	3406	21417	7	46	21471
16	1011	22422	23434	1131	290	3164	21691	13	47	21751
17	949	22433	23382	1267	276	3507	21418	-4	161	21576
18	975	22422	23397	1284	290	4050	20921	-2	159	21079
19	2085	22537	24622	1346	309	3658	22619	28	133	22780
20	3190	22698	25888	1339	308	3390	24144	-13	0	24144
21	3196	22751	25947	1319	323	3441	24148	-2	0	24148
22	3131	22863	25994	1337	380	3671	24041	11	0	24051
23	3345	22799	26144	1317	447	3504	24405	-17	0	24405
24	2776	22862	25638	1323	451	3387	24025	15	0	24039

Hourly Load Generation Data of ER On Regional Lean Day During The Month of APRIL'2021 (22-4-2021)

(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	1507	21490	22997	1346	190	4221	20312	2	57	20371
2	892	21478	22370	1320	206	3747	20149	16	49	20213
3	623	21212	21835	1302	229	3739	19627	21	162	19809
4	557	21071	21627	1290	234	3482	19670	-14	27	19683
5	562	20971	21533	1332	228	3989	19104	-10	23	19117
6	937	20467	21403	1324	190	5038	17880	-30	20	17900
7	939	20965	21905	1285	167	6412	16944	-21	13	16957
8	990	20673	21663	1209	162	6772	16262	-26	14	16276
9	1005	19798	20803	1169	166	6261	15877	-19	13	15890
10	935	20083	21018	979	163	6099	16062	14	15	16091
11	777	20027	20803	919	157	5657	16222	-3	89	16308
12	800	19981	20781	933	144	5305	16554	-4	94	16644
13	1192	19893	21085	914	158	4916	17241	8	97	17346
14	1106	19530	20636	1030	173	4320	17520	21	83	17624
15	1522	19629	21150	1114	193	4432	18025	58	65	18149
16	1283	20694	21976	1235	208	4753	18667	74	49	18789
17	1461	20831	22293	1296	175	5111	18653	46	40	18739
18	1316	21344	22660	1341	165	5652	18513	-23	33	18523
19	2710	21381	24091	1314	158	4778	20785	-44	26	20811
20	3251	21969	25219	1370	181	4563	22207	-14	21	22214
21	3113	21785	24898	1331	225	4085	22369	-4	17	22382
22	3089	21914	25004	1314	268	4418	22168	-8	14	22175
23	2905	21755	24660	1301	283	4338	21907	19	11	21938
24	2474	21745	24218	1312	295	4231	21594	45	8	21647

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

FOR THE MONTH OF APRIL'2021

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 18.09 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 35.95 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 7.01 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 Apr-21

DATE	HOURS										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	<49.9	49.9	>50.05	49.9	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	TO	TO	TO	TO	TO	TO		TO		TO	HZ		HZ		HZ		HZ	
01-Apr	49.93	49.97	49.95	49.97	49.98	49.96	20.60	67.20	12.10	67.20	50.16	10.00:00	49.71	03:12:50	50.10	0:00	49.75	0:00
02-Apr	50.00	49.97	49.97	49.96	49.95	49.97	10.40	79.00	10.60	79.00	50.14	06:03:00	49.77	21:20:50	50.07	0:00	49.81	0:00
03-Apr	49.97	49.94	49.96	50.00	49.99	49.97	9.50	79.70	10.90	79.70	50.14	18:01:50	49.72	05:55:20	50.06	0:00	49.78	0:00
04-Apr	50.00	50.00	50.00	49.99	49.92	49.99	5.20	83.00	11.80	83.00	50.29	18:01:10	49.73	23:06:30	50.12	0:00	49.80	0:00
05-Apr	49.95	49.99	49.94	49.96	49.90	49.95	22.50	67.10	10.40	67.10	50.14	10:00:50	49.70	16:14:30	50.07	0:00	49.80	0:00
06-Apr	49.98	49.98	49.99	50.01	49.88	49.98	11.20	69.90	18.90	69.90	50.19	18:01:10	49.72	14:30:00	50.11	0:00	49.78	0:00
07-Apr	50.00	49.97	49.97	49.95	49.91	49.96	16.40	71.40	12.20	71.40	50.14	07:59:40	49.72	14:52:30	50.09	0:00	49.78	0:00
08-Apr	49.97	49.99	49.97	50.01	49.97	49.98	8.40	76.10	15.50	76.10	50.15	18:00:30	49.82	19:11:50	50.08	0:00	49.86	0:00
09-Apr	50.02	50.02	50.01	49.99	49.98	50.01	3.50	72.20	24.30	72.20	50.20	18:01:40	49.80	22:20:40	50.09	0:00	49.86	0:00
10-Apr	49.98	50.01	49.97	50.00	49.98	49.99	5.90	78.10	16.00	78.10	50.18	00:00:40	49.79	16:45:20	50.09	0:00	49.89	0:00
11-Apr	49.99	50.02	50.02	49.96	49.98	50.00	3.80	77.10	19.10	77.10	50.19	18:02:00	49.69	21:07:40	50.09	0:00	49.80	0:00
12-Apr	49.99	50.00	49.98	49.99	49.96	49.99	6.30	78.90	14.80	78.90	50.21	18:02:30	49.79	21:05:50	50.12	0:00	49.88	0:00
13-Apr	49.99	50.00	49.98	50.01	50.01	49.99	3.60	82.30	14.10	82.30	50.15	08:02:20	49.81	06:12:50	50.09	0:00	49.91	0:00
14-Apr	49.97	50.02	49.98	50.01	49.99	49.99	5.60	76.40	18.00	76.40	50.21	06:02:20	49.74	14:52:40	50.11	0:00	49.80	0:00
15-Apr	50.01	50.04	49.97	49.97	49.94	49.99	7.90	71.70	20.30	71.70	50.17	08:03:30	49.73	19:22:10	50.11	0:00	49.85	0:00
16-Apr	49.99	50.01	49.97	50.02	49.99	50.00	7.60	74.10	18.30	74.10	50.21	17:56:40	49.70	13:46:00	50.14	0:00	49.83	0:00
17-Apr	49.99	49.99	49.99	49.95	49.91	49.97	14.70	70.10	15.10	70.10	50.16	10:01:20	49.77	22:09:20	50.09	0:00	49.79	0:00
18-Apr	49.98	50.00	50.00	49.96	50.02	49.99	4.20	79.80	16.00	79.80	50.17	16:03:10	49.73	19:19:20	50.08	0:00	49.86	0:00
19-Apr	50.01	50.00	49.98	50.00	49.94	49.99	6.80	70.80	22.40	70.80	50.19	13:02:00	49.73	14:24:30	50.10	0:00	49.83	0:00
20-Apr	49.99	50.01	50.01	49.99	49.96	50.00	8.10	65.60	26.30	65.60	50.20	13:01:30	49.74	10:55:10	50.12	0:00	49.81	0:00
21-Apr	49.91	50.01	49.98	50.01	50.03	49.98	10.00	72.90	17.10	72.90	50.18	06:01:40	49.79	03:19:40	50.12	0:00	49.80	0:00
22-Apr	50.00	50.03	49.96	50.03	49.96	49.99	7.80	71.30	20.90	71.30	50.20	18:04:20	49.86	15:52:10	50.07	0:00	49.83	0:00
23-Apr	50.01	49.99	50.00	49.99	50.01	50.00	1.70	82.30	16.00	82.30	50.15	18:02:50	49.86	21:56:20	50.07	0:00	49.91	0:00
24-Apr	50.00	50.02	49.98	49.98	49.99	49.99	5.70	76.20	18.10	76.20	50.19	12:02:50	49.70	19:24:40	50.12	0:00	49.75	0:00
25-Apr	50.00	50.03	49.96	49.99	49.97	49.99	6.10	74.40	19.50	74.40	50.14	06:02:10	49.79	12:53:40	50.10	0:00	49.85	0:00
26-Apr	50.00	49.98	49.97	50.02	49.96	49.99	7.90	74.90	17.20	74.90	50.26	18:02:40	49.74	15:55:40	50.15	0:00	49.81	0:00
27-Apr	49.99	50.02	49.98	49.99	50.00	49.99	4.90	78.40	16.70	78.40	50.22	08:00:20	49.83	09:08:40	50.14	0:00	49.88	0:00
28-Apr	49.98	49.99	49.95	50.02	49.93	49.98	8.65	76.38	14.97	76.38	50.18	17:02:00	49.77	14:40:00	50.09	0:00	49.82	0:00
29-Apr	49.99	50.01	50.00	50.02	49.95	50.00	2.60	75.20	22.20	75.20	50.19	17:01:40	49.80	22:14:00	50.12	0:00	49.90	0:00
30-Apr	50.00	50.02	49.99	50.01	49.98	50.00	1.50	79.30	19.20	79.30	50.17	06:01:50	49.84	19:15:00	50.08	0:00	49.92	0:00
MAX	50.02	50.04	50.02	50.03	50.03	50.01	22.50	83.00	26.30	83.00	50.29		49.86		50.15		49.92	
MIN	49.91	49.94	49.94	49.95	49.88	49.95	1.50	65.60	10.40	65.60	50.14		49.69		50.06		49.75	
AVG	49.99	50.00	49.98	49.99	49.96	49.99	7.97	75.06	16.97	75.06	50.18		49.76		50.10		49.83	

SUMMARY:

Instantaneous Frequency :

Maximum Frequency : 50.29 Hz at 18.01:10 Hrs.

Minimum Frequency : 49.69 Hz at 21:07 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.15 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.75 Hz On 00/01/00 at 00:00 Hrs

Avg. Frequency : **50.0 Hz.**

Frequency Distribution in % of Time			
Hz	<49.9	49.9-50.05	>50.05
% of Time	7.97	75.06	16.97

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	422	399	416	401	420	390	419	398

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	389	404	392	414	401	421	374

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
Apr-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	
			(30-04-21)	(30-04-20)		
Hirakud	192	180	185.06	188.34	186.91	01.04.21
Balimela	462	439	446.56	450.83	449.09	01.04.21
Rengali	123	109	114.18	116.49	115.59	01.04.21
Upperkolab	858	844	845.92	851.66	847.87	01.04.21
Indravati	642	625	631.90	634.13	633.92	01.04.21
Subernrekha	590	580	584.39	584.48	584.70	01.04.21

B.

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

(All figs. are in MU)

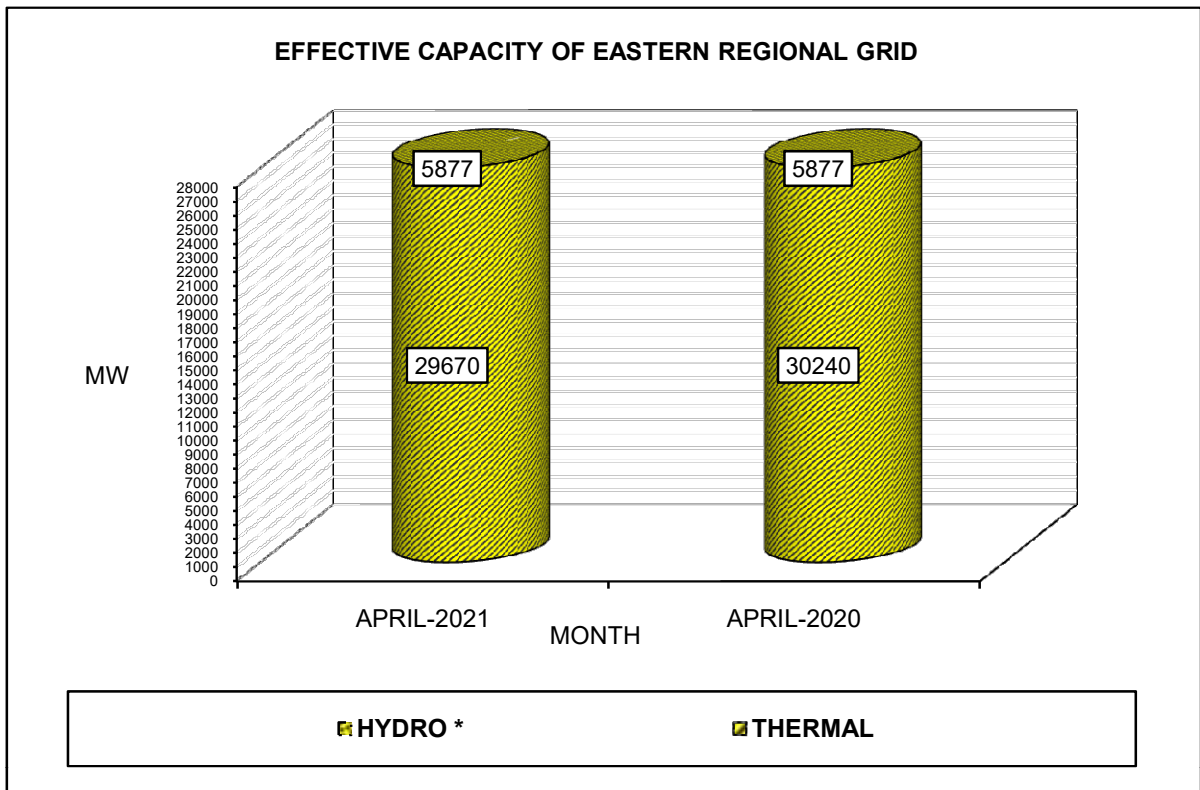
System	Tata Power	Cresent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	55.25
West Bengal	70.11	25.88	0	0	0	0	0	110.84	206.84
ODISHA	0	0	50.80	238.13	5.03	18.91	0	448.11	760.98
DVC	0	0	0	0	0	0	14.22	0	14.22
TOTAL	70.11	25.88	50.80	238.13	5.03	18.91	14.22	558.95	1037.29

C.

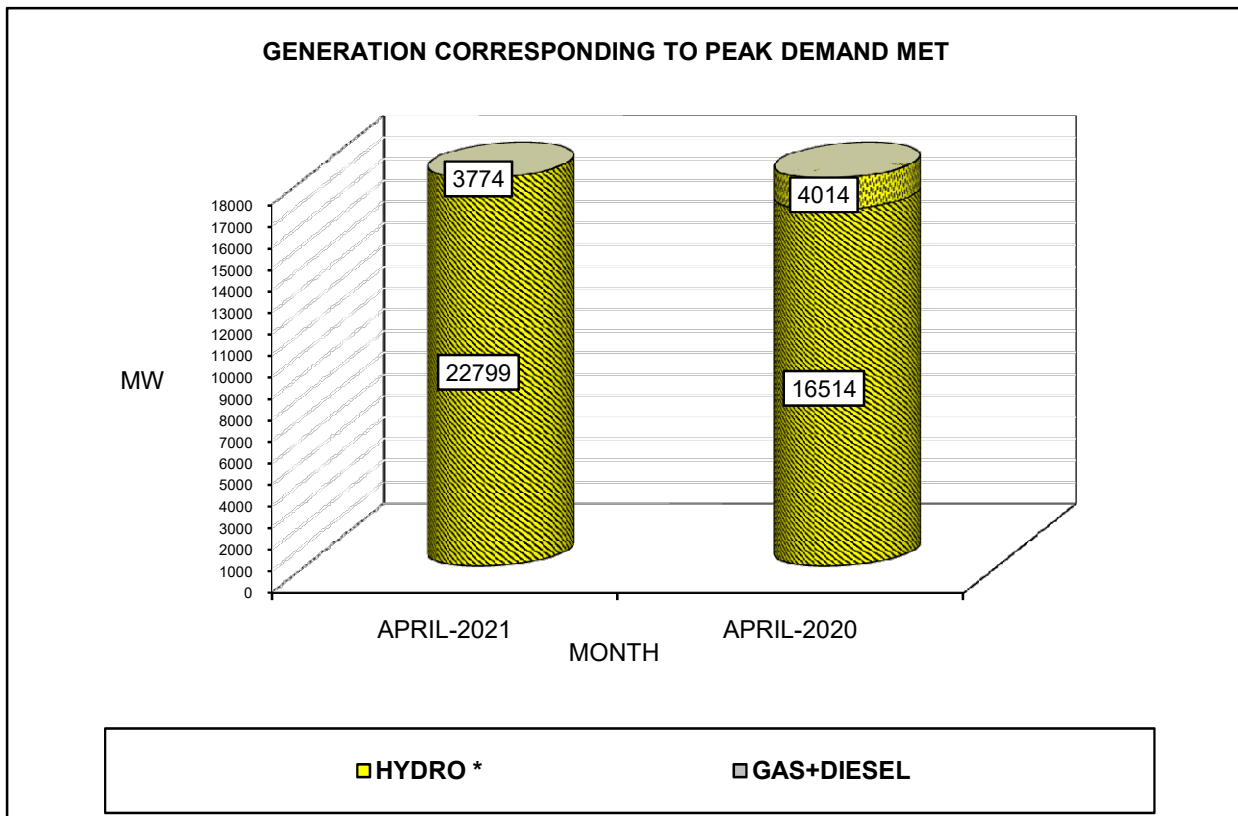
Distribution of Schedule Supply among Key Customers by IPPs during Apr-21

(All figs. are in MU)

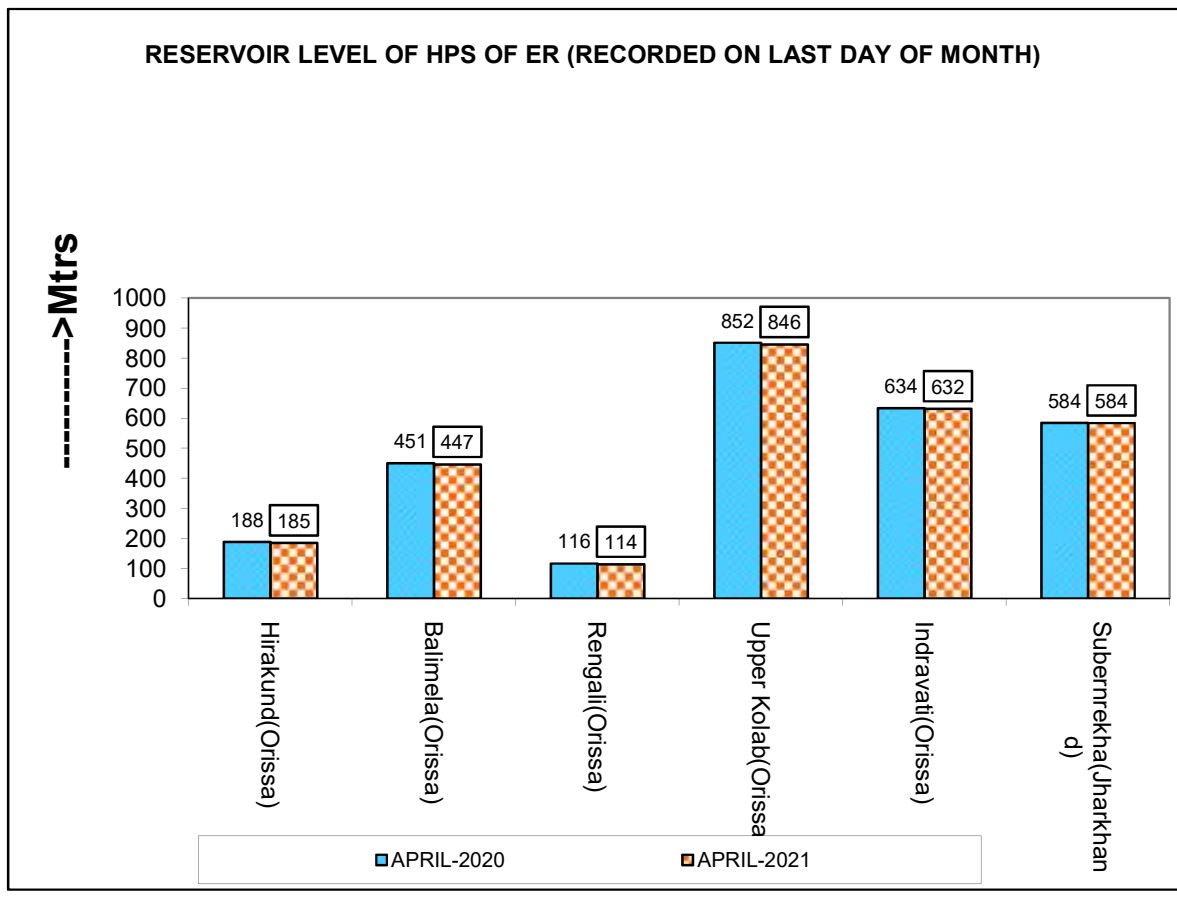
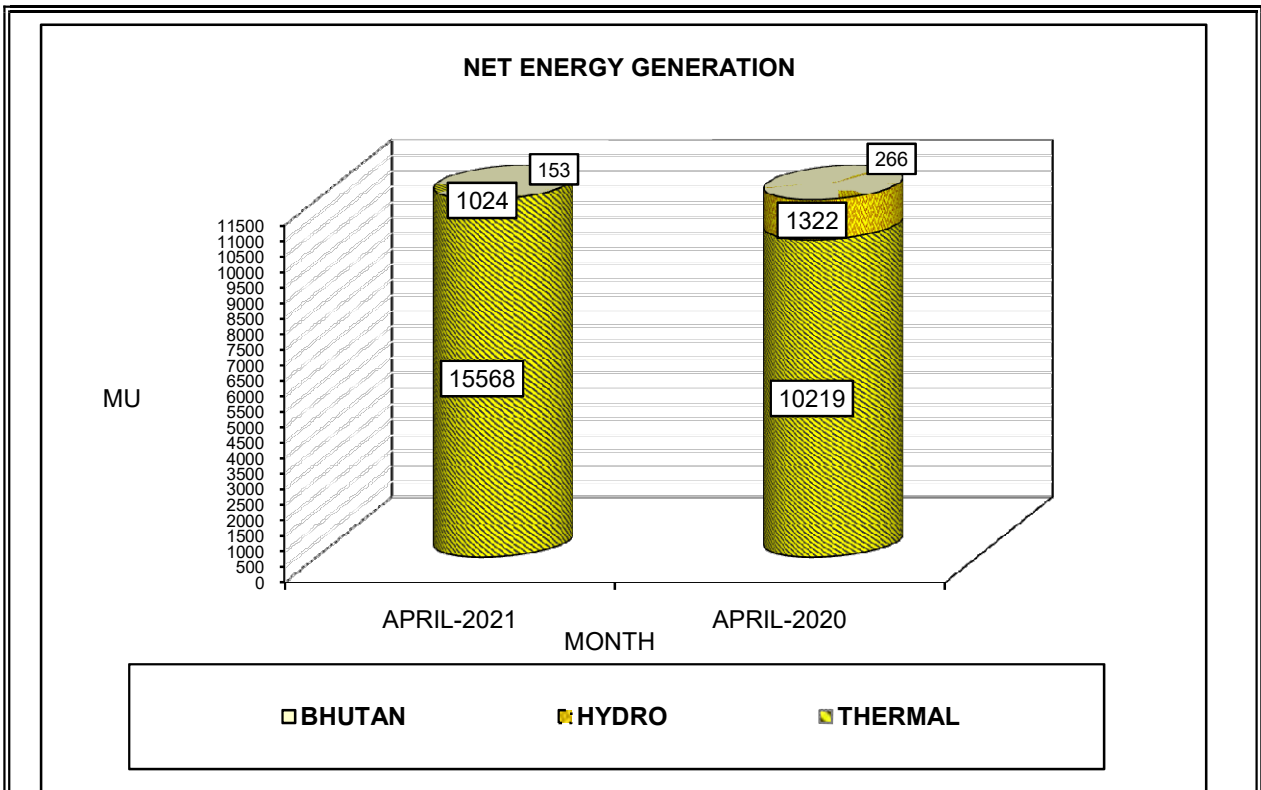
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	184.78	192.76	87.15	0.00	0	0	213.44	678.13
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
Total	184.78	192.76	87.15	0.00	0.00	0.00	213.44	678.13



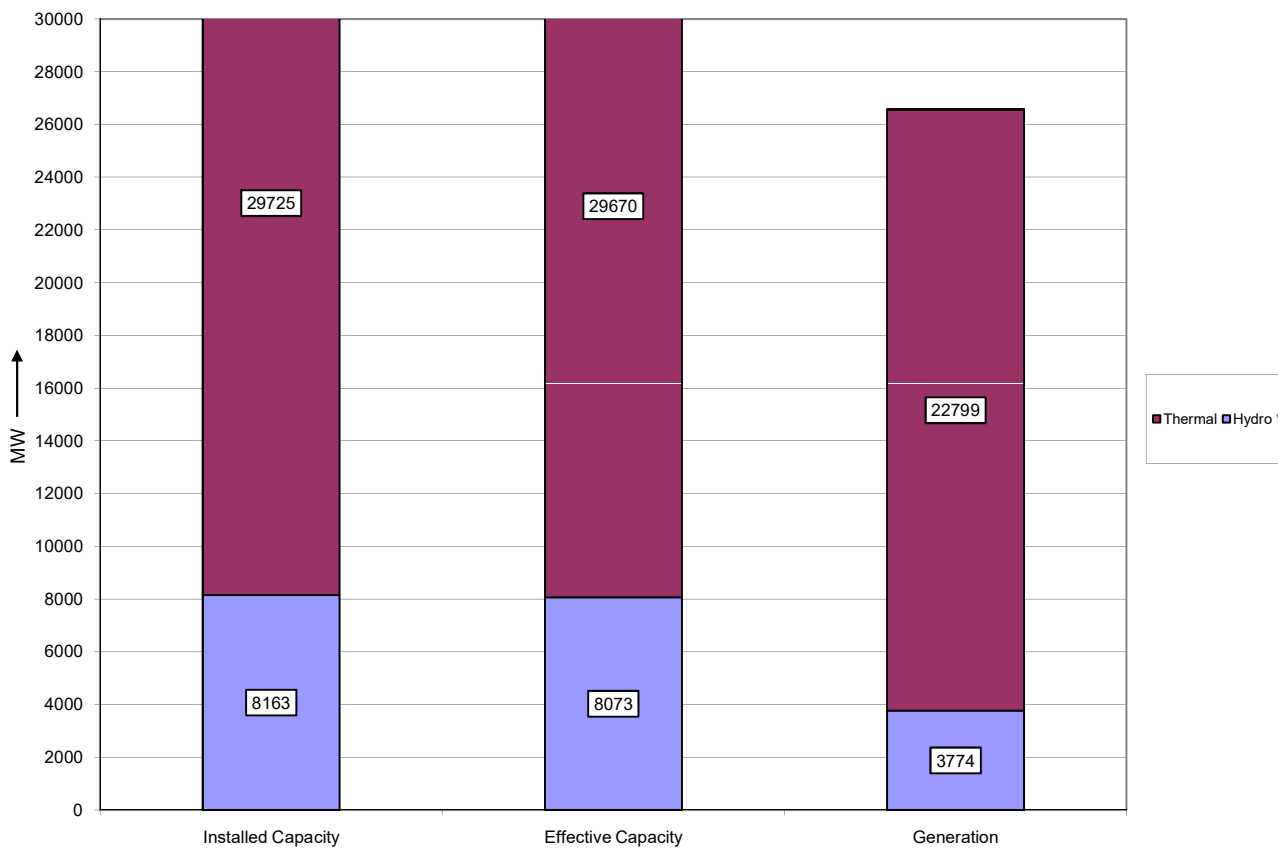
*Excludes contribution from HEPs of Bhutan



*Includes contribution from HEP of Bhutan

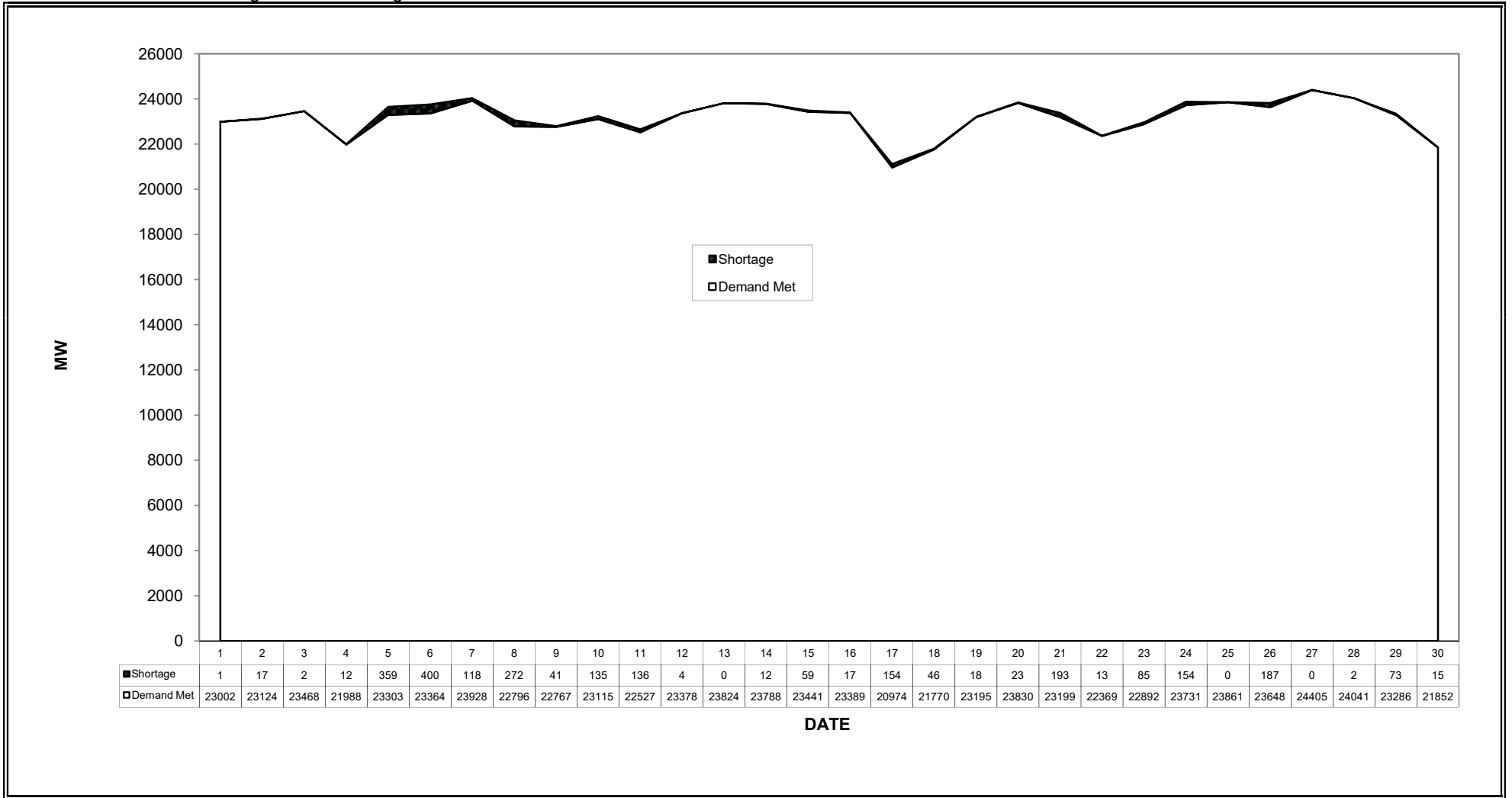


Capacity / Actual Generation Pattern of ER on Peak Day (27-4-2021) at 23.00 hrs.

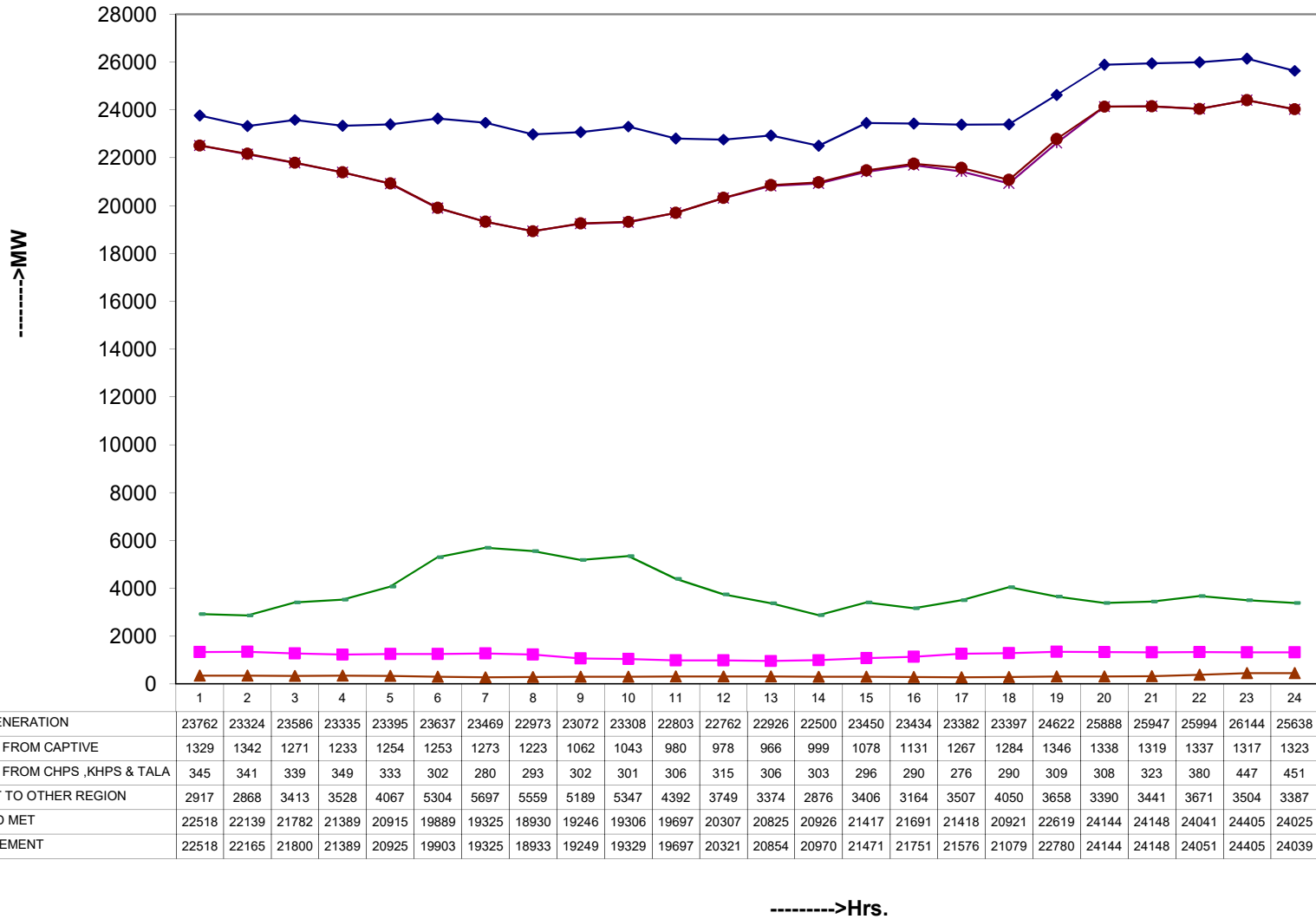


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

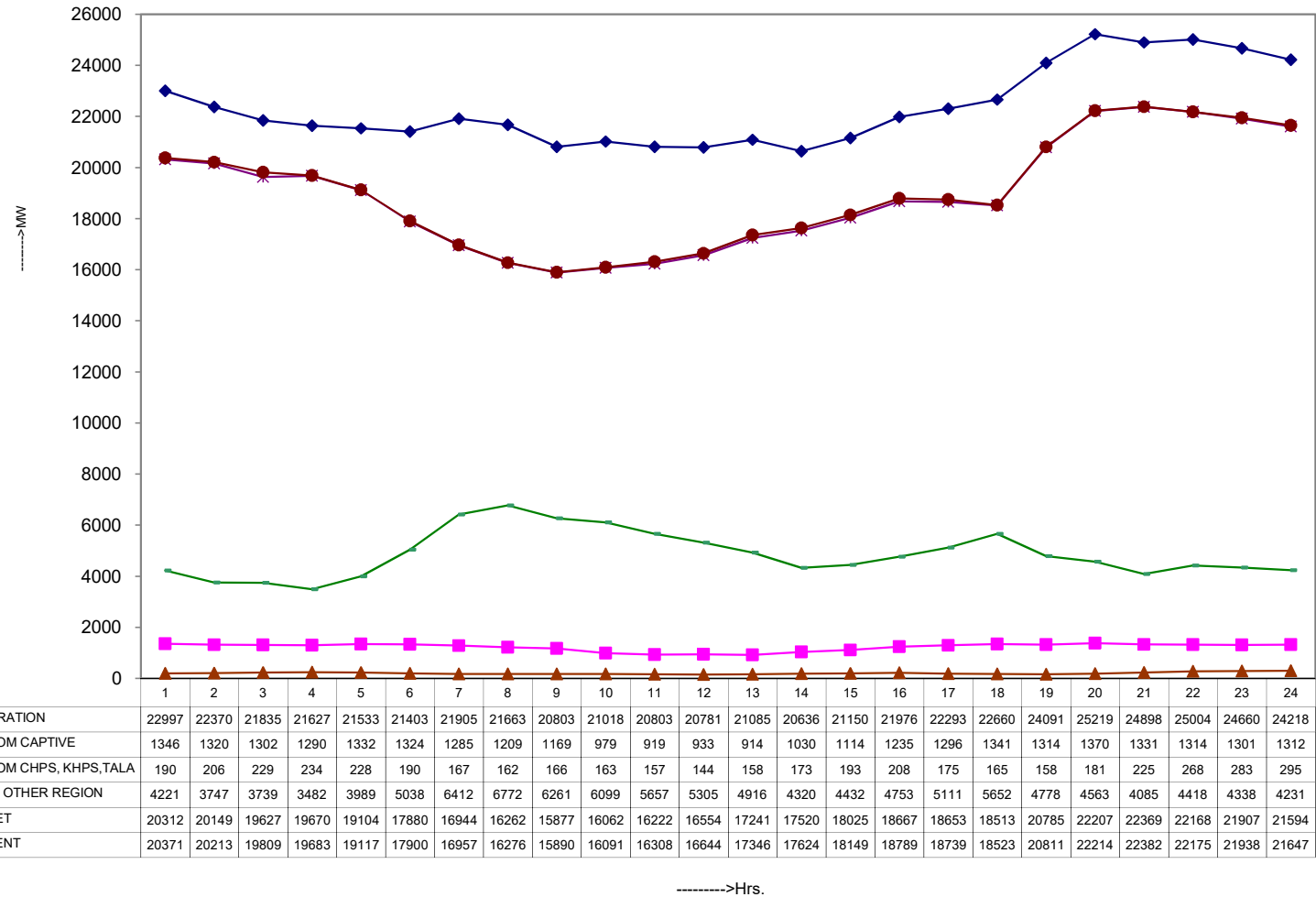
Peak Demand Met / Shortage of Eastern Region For The Month Of APRIL'2021



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of APRIL'2021 (27-4-2021)

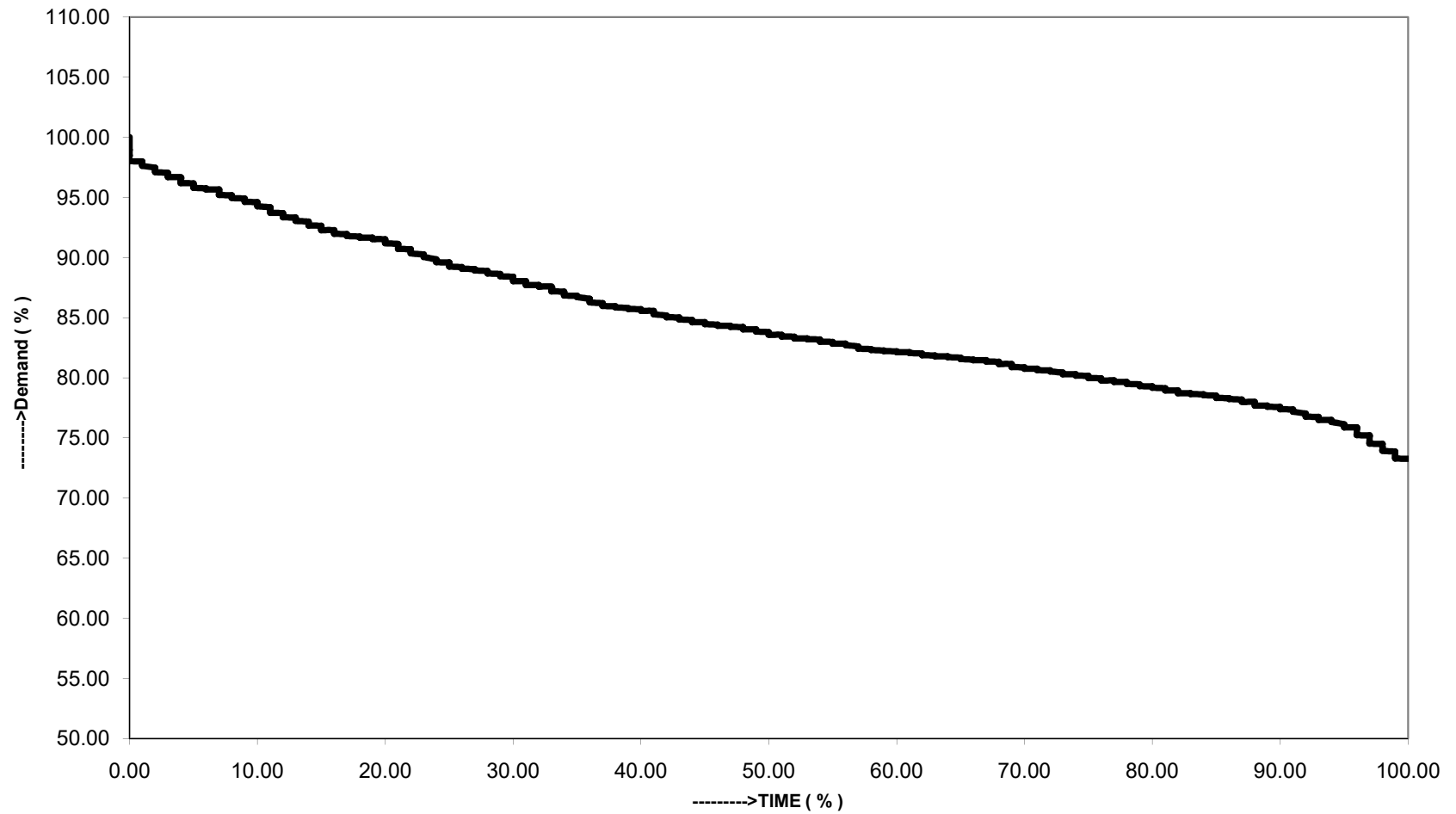


Hourly Load Generation Data of ER On Regional Lean Day During The Month of APRIL'2021 (22-4-2021)



Monthly Load Duration Curve of Eastern Region for APRIL-2021

Maximum Demand met : 24405 MW
Minimum Demand met: 15877 MW



WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

