



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

मई- 2019

May-2019



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for May-2019

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **May, 2019** was **22781 MW** which is 4.01% more than the **May, 2018** (21902 MW). Individual **Peak Demand (MW)** of most of constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **May, 2019** was **451.15 MU** excluding export, which is 7.37% more than the corresponding period of last year (420.20 MU).
- The **Average regional PLF of thermal units during the month is 70.73%**, which is 2.46% more than the corresponding period of the last year (**68.27%**).

NTPC (TPPS) registered the highest **PLF** of 98.08%, followed by CESC (Budge-Budge) 97.41%, DVC(Chandrapura) 96.09%, and WBPDC(Santalidih TPS) 93.34% during the month of **May, 2019**.

- **Maximum Net generation** was **24539 MW** against total **Effective Capacity of 36028.30 MW** (including import from Bhutan). At the time of Regional peak (22781 MW on 18.05.2019 at 24.00 hrs.) the generation was 23764 MW and import from CPP was 1000 MW, Net export was 1983 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 72.72% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and the minimum frequency touched were 50.33 Hz and 49.65 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.22 Hz** and **49.70 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **425 KV** at Binaguri 400 KV S/s whereas the minimum voltage recorded 370 KV at Jeerat 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **8213 MW (including Nepal and Bangladesh)** on **6th May, 2019** at 06:00 hrs. Total net energy export during the month was **2521.29 MU (Inc.Transmission loss) MU** which is corresponds to 16.00 % of ex-bus total generation **15761.07 MU** of Eastern Region.
- The import from CPPs was **745.73 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	5090	0	2035.35
WR	0	4704	-1679.88
SR	3303	0	1440.00
NER	603	1296	-116.58
BANGLADESH	960		677.17
NEPAL (via-CTU)	254		165.23
Total(Net)	6412	4704	2521.29
NEPAL by Bihar(NBPDCL)			108.76

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		May-19	MAY-2018	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	27340	27205	135	0.50
	HYDRO (MW)	5876 \$	5876	0	0
	DIESEL (MW)	0	0	0	0
	RES (MW)	1336	886	0	0
	TOTAL (MW)	34552	33967	585	1.72
2)	Peak Demand (MW)	22830	22012	818	3.71
3)	Peak Demand Met (MW)	22781	21902	879	4.01
4)	Shortage (MW)	49	111	-61	-55.35
5)	% Shortage	0.22	0.50	-0.29	-56.95
6)	Average Energy Requirement Per Day (MU)	452.79	425.38	27.41	6.44
7)	Average Energy Availability Per Day (MU)	451.15	420.20	30.95	7.36
8)	Average Shortage Per Day (MU)	1.64	4.86	-3.22	-66.19
9)	% Shortage	0.36	1.14	-0.78	-68.24
10)	Net Generation for the Month				
	Thermal (MU)	13288.07	12767.85	520.21	4.07
	Hydro (MU)	2419.70 *	2003.53	416.17	20.77
	RES (MU)	53.30	0.00	0.00	-
	Total (MU)	15761.07	14805.59	955.48	6.45
11)	Generation at the Time of Max. Regional Demand Met (18-05-19 at 24.00 Hrs.)				
	Thermal (MW)	19483	18195	1288	7.08
	Hydro (MW)	4247 *	4174	73	1.74
	RES(MW)	34	0	34	-
	Total (MW)	23764	22369	1395	6.24
12)	Inter-Regional Energy Transfer				
	Export (MU)	4301.90	3431.64	870.25	25.36
	Import (MU)	1809.75	1002.86	806.88	80.46
	Net Exp.(+)/Net Imp.(-) (MU)	2492.15	2428.78	63.37	2.61
13)	Import From Captive(MU)	745.73	659.89	85.84	13.01
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 06-05-19 at 06.00Hrs	8213	6735	1478	21.95
	Max Import (MW) on 17-05-19 at 22.00Hrs	4704	3951	753	19.05
	Max Net Export(+)/Import (-) (MW)	6412	6242	169	2.71
15)	Maximum voltage recorded	425	BINAGURI	400 kv	s/s
16)	Minimum voltage recorded	370	JEERAT	400 kv	s/s

\$ Excludes 1566 MW contribution from HEPs of Bhutan

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

Due to de-commissioning of Units

POWER SUPPLY POSITION FOR THE MONTH OF MAY'2019

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	101.04	101.16	0.12	0.12
JUVNL	26.37	26.65	0.28	1.04
DVC	65.00	65.03	0.03	0.05
ODISHA	84.47	84.51	0.04	0.04
WBSIEDCL	134.39	135.12	0.73	0.54
CESC	38.89	38.91	0.02	0.04
SIKKIM	1.41	1.41	0.00	0.04
REGION	451.15	452.79	1.64	0.36

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5326	5326	0	0.00
JUVNL	1389	1396	6	0.46
DVC	2963	2971	8	0.27
ODISHA	4606	4614	8	0.17
WBSIEDCL	7104	7177	73	1.01
CESC	2312	2315	3	0.1
SIKKIM	93	93	0	0.00
REGION	22781	22830	49	0.22

➤ **DIVERSITY FACTOR** **1.04**

➤ **Regional Peak Demand Met on 18-5-2019 at 24.00 hrs. at 49.96 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA MAY-19

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from	Exchange	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total	Captive (MU)	Net Import(+) Net Export(-)	Consumption(MU)	Cons.(MU)	Demand Met (MW)	Demand Met (MW)
BSPHCL	0.00	110.27	21.18	131.46	0.00	13.51	0.00	13.51	0.00	96.76	21.18	117.94	0.00	3014.22	3132.16	101.0	5326	5349
JUVNL	0.45	224.23	0.00	224.68	0.00	28.54	0.00	28.54	0.45	195.69	0.00	196.14	46.34	575.11	817.59	26.4	1389	1411
DVC	2.90	3620.89	0.00	3623.80	0.09	249.34	0.00	249.43	2.81	3371.55	0.00	3374.36	12.05	-1371.55	2014.85	65.0	2963	3342
ODISHA(OPGC+OHPC+TTPS)	557.37	636.27	27.75	1221.38	2.85	75.36	0.00	78.21	554.51	560.91	27.75	1143.17	554.75	920.76	2618.68	84.5	4606	4702
WBPDC+WBSEDCL+DPL	129.90	2468.99	0.00	2598.89	0.00	236.20	0.00	236.20	129.90	2232.78	0.00	2362.69	132.60	1670.84	4166.12	134.4	7104	7481
CESC	0.00	599.86	0.00	599.86	0.00	48.04	0.00	48.04	0.00	551.82	0.00	551.82	0.00	653.87	1205.70	38.9	2312	2384
HEL	0.00	401.01	0.00	401.01	0.00	31.34	0.00	31.34	0.00	369.67	0.00	369.67	0.00	-369.67				
SIKKIM	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	40.67	43.67	1.4	93	93
NTPC	0.00	4703.67	0.00	4703.67	0.00	347.97	0.00	347.97	0.00	4355.70	0.00	4355.70	0.00	-4355.70				
MPL	0.00	663.48	0.00	663.48	0.00	37.97	0.00	37.97	0.00	625.51	0.00	625.51	0.00	-625.51				
APNRL	0.00	229.43	0.00	229.43	0.00	22.18	0.00	22.18	0.00	207.25	0.00	207.25	0.00	-207.25				
GMR	0.00	394.31	0.00	394.31	0.00	26.29	0.00	26.29	0.00	368.03	0.00	368.03	0.00	-368.03				
JITPL	0.00	378.59	0.00	378.59	0.00	26.20	0.00	26.20	0.00	352.39	0.00	352.39	0.00	-352.39				
NHPC (Inc TLDP= 131.41MU)	513.16	0.00	0.00	513.16	0.00	0.00	0.00	0.00	513.16	0.00	0.00	513.16	0.00	-513.16	0.00			
CHPC(Birpara Receipt)	137.94	0.00	0.00	137.94	0.00	0.00	0.00	0.00	137.94	0.00	0.00	137.94	0.00	-137.94	0.00			
KHPS	24.15	0.00	0.00	24.15	0.00	0.00	0.00	0.00	24.15	0.00	0.00	24.15	0.00	-24.15	0.00			
THPS	182.69	0.00	0.00	182.69	0.00	0.00	0.00	0.00	182.69	0.00	0.00	182.69	0.00	-182.69	0.00			
DAGACHU HPS	15.98	0.00	0.00	15.98	0.00	0.00	0.00	0.00	15.98	0.00	0.00	15.98	0.00	-15.98	0.00			
CHUZACHEN HPS	46.41	0.00	0.00	46.41	0.00	0.00	0.00	0.00	46.41	0.00	0.00	46.41	0.00	-46.41	0.00			
JORHANG HPS	21.17	0.00	0.00	21.17	0.00	0.00	0.00	0.00	21.17	0.00	0.00	21.17	0.00	-21.17	0.00			
TEESTA-III HPS	702.79	0.00	0.00	702.79	0.00	0.00	0.00	0.00	702.79	0.00	0.00	702.79	0.00	-702.79	0.00			
DIKCHU HPS	64.27	0.00	0.00	64.27	0.00	0.00	0.00	0.00	64.27	0.00	0.00	64.27	0.00	-64.27	0.00			
TASHIDING HPS	23.45	0.00	0.00	23.45	0.00	0.00	0.00	0.00	23.45	0.00	0.00	23.45	0.00	-23.45	0.00			
TALCHER SOLAR	0.00	0.00	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	1.36	1.36	0.00	-1.36				
Total Drawal by HVDC Sahsaram,Alipurduar,BRBCL,Indbharat and OPGC INFIRM INJECTION														-13.29	-13.29			
Total	2422.64	14431.00	53.30	16906.94	2.95	1142.94	0.00	1145.88	2419.69	13288.06	53.30	15761.05	745.73	-2521.28	13985.49	451.1	22781	24783

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

A) Net Average Energy

Month	2018-19					2019-20				
	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	393.59	396.98	3.39	0.85	49.96	428.71	429.56	0.85	0.20	50.00
MAY	420.52	425.36	4.84	1.14	49.94	451.15	452.79	1.64	0.36	49.99
JUNE	437.39	441.13	3.74	0.85	49.97	-	-	-	-	-
JULY	425.68	427.31	1.63	0.38	49.97	-	-	-	-	-
AUGUST	446.36	449.17	2.81	0.63	49.97	-	-	-	-	-
SEPTEMBER	440.53	448.47	7.94	1.77	49.96	-	-	-	-	-
OCTOBER	419.33	423.20	3.87	0.91	49.96	-	-	-	-	-
NOVEMBER	368.99	371.76	2.77	0.75	49.97	-	-	-	-	-
DECEMBER	340.51	342.17	1.66	0.49	49.96	-	-	-	-	-
JANUARY	355.14	357.42	2.29	0.64	49.98	-	-	-	-	-
FEBRUARY	356.66	357.25	0.59	0.17	49.99	-	-	-	-	-
MARCH	384.42	385.48	1.06	0.27	49.99	-	-	-	-	-

B) Peak in MW:

Month	2018-19					2019-20				
	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	21058	21128	70	0.33	49.96	22378	22415	37	0.17	50.00
MAY	21902	22012	111	0.50	49.94	22781	22830	49	0.22	49.99
JUNE	22080	22964	884	3.85	49.97	-	-	-	-	-
JULY	21790	21849	59	0.27	49.97	-	-	-	-	-
AUGUST	22580	22794	215	0.94	49.97	-	-	-	-	-
SEPTEMBER	22286	22815	529	2.32	49.96	-	-	-	-	-
OCTOBER	22733	23093	360	1.56	49.96	-	-	-	-	-
NOVEMBER	20322	20512	190	0.93	49.97	-	-	-	-	-
DECEMBER	18023	18049	25	0.14	49.96	-	-	-	-	-
JANUARY	18702	18783	81	0.43	49.98	-	-	-	-	-
FEBRUARY	18921	18923	2	0.01	49.99	-	-	-	-	-
MARCH	21221	21416	195	0.91	49.99	-	-	-	-	-

ENTITLEMENT,DRAWAL SCHEDULE(EX. BUS) AND ACTUAL DRAWAL FROM CENTRAL SECTOR GENERATION .

All figures are in MU

	FROM	Cumulative from	01-Apr-19	to	30/Apr/19	During April-19					
		ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID	ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID
BSPHCL	FARAKKA STPS I	308.74	227.30				308.74	227.30			
	FARAKKA STPS III	73.53	50.68				73.53	50.68			
	KAHALGAON STPS I	217.66	185.53				217.66	185.53			
	KAHALGAON STPS II	37.73	39.35				37.73	39.35			
	TALCHER STPS I	237.61	232.07				237.61	232.07			
	MTPS-II	190.91	150.23				190.91	150.23			
	BRBCL	39.93	40.62				39.93	40.62			
	Riy BRBCL	40.66	31.12				40.66	31.12			
	BARH STPS II	805.39	754.54				805.39	754.54			
	RANGIT HEP	7.43	7.43				7.43	7.43			
	CHUKHA HEP	0.00	0.00				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	0.00	0.00				0.00	0.00			
	TEESTA HEP	46.75	46.75				46.75	46.75			
	TOTAL	2006.33	1765.63	660.30	2453.74	2440.43	2006.33	1765.63	660.30	2453.74	2440.43
JUVNL	FARAKKA STPS I	84.32	65.67				84.32	65.67			
	FARAKKA STPS III	46.99	42.09				46.99	42.09			
	KAHALGAON STPS I	16.65	16.37				16.65	16.37			
	KAHALGAON STPS II	9.46	13.05				9.46	13.05			
	TALCHER STPS I	44.17	40.95				44.17	40.95			
	MTPS-II	8.74	9.87				8.74	9.87			
	BARH STPS II	62.85	51.28				62.85	51.28			
	RANGIT HEP	2.83	2.83				2.83	2.83			
	CHUKHA HEP	0.00	0.00				0	0.00			
	KIRUCHHU HEP	0.00	0.00				0	0.00			
	TALA HPS	0.00	0.00				0	0.00			
	TEESTA HEP	27.13	27.13				27.13	27.13			
	TOTAL	303.15	269.25	183.80	490.89	489.92	303.15	269.25	183.80	490.89	489.92
DVC	FARAKKA STPS I	0.00	0.00				0.00	0.00			
	FARAKKA STPS III	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	0.00	0.00				0.00	0.00			
	TALCHER STPS I	1.15	1.02				1.15	1.02			
	MTPS-II	6.62	5.64				6.62	5.64			
	BRBCL	61.07	49.80				61.07	49.80			
	RANGIT HEP	2.12	2.12				2.12	2.12			
	CHUKHA HEP	0.00	0.00				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	0.00	0.00				0.00	0.00			
	TEESTA HEP	19.00	19.00				19.00	19.00			
	TOTAL	89.96	77.58	-1549.00	-1456.53	-1448.08	89.96	77.58	-1549.00	-1456.53	-1448.08
GRIDCO	FARAKKA STPS I	139.47	22.22				139.47	22.22			
	FARAKKA STPS III	47.55	47.86				47.55	47.86			
	KAHALGAON STPS I	82.03	93.18				82.03	93.18			
	KAHALGAON STPS II	19.86	48.84				19.86	48.84			
	TALCHER STPS (Stg-I	186.33	186.96				186.33	186.96			
	TALCHER STPS (Stg-II	0.00	0.00				0.00	0.00			
	MTPS-II	21.71	0.79				21.71	0.79			
	BARH STPS II	0.00	0.00				0.00	0.00			
	RANGIT HEP	0.00	0.00				0.00	0.00			
	CHUKHA HEP	0.00	0.00				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	0.00	0.00				0.00	0.00			
	TEESTA HEP	45.27	45.27				45.27	45.27			
	TOTAL	542.22	445.12	379.01	1003.39	1055.68	542.22	445.12	379.01	1003.39	1055.68
WBSEDCI	FARAKKA STPS I	323.01	279.21				323.01	279.21			
	FARAKKA STPS III	106.91	86.96				106.91	86.96			
	KAHALGAON STPS I	36.34	34.88				36.34	34.88			
	KAHALGAON STPS II	6.96	7.07				6.96	7.07			
	TALCHER STPS I	58.35	53.85				58.35	53.85			
	MTPS-II	24.54	18.74				24.54	18.74			
	RANGIT HEP	6.02	6.02				6.02	6.02			
	CHUKHA HEP	0.00	0.00				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	0.00	0.00				0.00	0.00			
	TEESTA HEP	52.73	52.73				52.73	52.73			
	TOTAL	614.87	539.44	884.40	1495.74	1486.66	614.87	539.44	884.40	1495.74	1486.66
SIKKIM	FARAKKA STPS I	16.03	11.84				16.03	11.84			
	FARAKKA STPS III	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	8.06	6.66				8.06	6.66			
	KAHALGAON STPS II	2.50	2.21				2.50	2.21			
	TALCHER STPS I	13.83	13.03				13.83	13.03			
	MTPS-II	1.41	1.35				1.41	1.35			
	BARH STPS II	11.70	9.35				11.70	9.35			
	RANGIT HEP	2.83	2.83				2.83	2.83			
	CHUKHA HEP	0.00	0.00				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TEESTA HEP	29.00	29.00				29.00	29.00			
	TOTAL	85.36	76.28	34.71	44.04	40.86	85.36	76.28	34.71	44.04	40.86
WR	FARAKKA STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	-201.00	-184.19				-201.00	-184.19			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BARH STPS II	0.00	0.00				0.00	0.00			
	BRBCL	-138.45	-100.02				-138.45	-100.02			
	TOTAL	-339.46	-284.21	700.07	926.44	1388.40	-339.46	-284.21	700.07	926.44	1388.40
SR	FARAKKA STPS I	-20.08	-19.89				-20.08	-19.89			
	FARAKKA STPS III	-2.03	-1.98				-2.03	-1.98			
	KAHALGAON STPS I	-7.19	-7.90				-7.19	-7.90			
	KAHALGAON STPS II	-5.78	-6.91				-5.78	-6.91			
	TALCHER STPS STG-I	-9.00	-8.96				-9.00	-8.96			
	MTPS-II	-0.71	-0.84				-0.71	-0.84			
	BARH STPS II	-5.99	-6.06				-5.99	-6.06			
	TOTAL	-50.78	-52.54	-1196.46	-1985.02	-1793.34	-50.78	-52.54	-1196.46	-1985.02	-1793.34
NR	FARAKKA STPS I	-56.05	-34.09				-56.05	-34.09			
	KAHALGAON STPS I	-129.74	-81.91				-129.74	-81.91			
	KAHALGAON STPS II	-424.97	-300.72				-424.97	-300.72			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BRBCL	-109.89	-70.93				-109.89	-70.93			
	TALA HPS	0.00	0.00				0.00	0.00			
	TOTAL	-720.64	-487.64	-362.44	-711.47	-1616.73	-720.64	-487.64	-362.44	-711.47	-1616.73
	GRAND TOTAL	-1110.88	-824.39	-858.83	-1770.06	-2021.67	-1110.88	-824.39	-858.83	-1770.06	-2021.67
WR+SR+NR	FARAKKA STPS I	-32.56	-25.13				-32.56	-25.13			
	FARAKKA STPS III	-0.25	-0.26				-0.25	-0.26			
	KAHALGAON STPS I	-15.37	-13.42				-15.37	-13.42			
	KAHALGAON STPS II	-39.29	-27.86				-39.29	-27.86			
NER	TALCHER STPS I	-17.00	-15.79				-17.00	-15.79			
	TOTAL	-104.47	-82.47	-33.45	-68.65	351.27	-104.47	-82.47	-33.45	-68.65	351.27

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF MAY'2019

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 (2019-20) in MU	Cummulative Net Energy Generation upto Current Month (2019-20) in MU
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	8.29	7.13	8.29	7.13
		Muzaffarpur Stg-I	220.00	220.00	101.99	89.63	212.89	187.78
		Thermal Total	440.00	430.00	110.27	96.76	221.18	194.91
	RES		327.90	327.90	21.18	21.18	63.45	63.45
		Total BIHAR	767.90	757.90	131.46	117.94	284.63	258.36
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	224.23	195.69	415.98	363.49
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.45	0.45	0.67	0.67
	RES		39.00	39.00	0.00	0.00	0.00	0.00
	Total	169.00	169.00	0.45	0.45	0.67	0.67	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	10.75	9.03	56.45	49.06
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	357.44	324.60	689.38	625.91
		Durgapur(4)	210.00	210.00	0.00	-0.92	34.18	27.52
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	737.60	662.94	1455.63	1305.66
		Mezia(U # 7,8)	1000.00	1000.00	622.18	589.36	1151.69	1090.76
		Bokaro-A(1)	500.00	500.00	267.42	252.05	528.17	497.30
		Durgapur STPS (U#1,2)	1000.00	1000.00	667.48	632.19	1230.08	1164.04
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	309.83	290.00	827.28	776.23
		Koderma STPS (U#1,2)	1000.00	1000.00	648.20	612.30	1276.13	1207.13
	Total Thermal	7100.00	7090.00	3620.89	3371.55	7248.99	6743.61	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.44	0.41	1.25	1.19
		Panchet (U#1,2)	80.00	80.00	2.46	2.41	4.69	4.60
		Tilaya (U#1,2)	4.00	4.00	0.00	0.0	0.00	0.0
		Hydro Total	147.20	147.20	2.90	2.81	5.94	5.77
Total DVC	7247.20	7237.20	3623.80	3374.36	7254.93	6749.38		
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	110.55	97.76	204.94	180.72
		Santalidih TPS(U#5&6)	500.00	500.00	347.24	319.82	674.11	620.61
		Kolaghat TPS	1260.00	1260.00	409.83	365.02	772.60	687.41
		Bakreswar TPP	1050.00	1050.00	705.22	642.96	1438.95	1314.87
		Sagardighi TPP	1600.00	1600.00	632.91	571.86	1236.79	1123.22
		Thermal Total	4790.00	4745.00	2205.74	1997.42	4327.39	3926.82
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	21.56	21.56	34.89	34.89
		Ramam (4x12.73)	51.00	51.00	11.48	11.48	23.32	23.32
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00	0.00	0.00	0.00
		Purulia PSS (4x225)	900.00	900.00	96.87	96.87	162.71	162.71
		Total Hydro	1053.30	1053.30	129.90	129.90	220.92	220.92
		RES	407.15	407.15	0.00	0.00	0.00	0.00
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	263.24	235.37	544.10	488.10
		0	0.00	0.00	0.00	0.00	0.48	0.48
	➤	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 MAY'2019

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 (2019-20) in MU	Cummulative Net Energy Generation upto Current Month (2019-20) 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	56.29	50.62	101.30	91.25
		Budge-Budge (3x250)	750.00	750.00	543.57	501.20	1049.72	968.58
		Total CESC	1125.00	1125.00	599.86	551.82	1151.02	1059.83
HEL	Thermal	HEL	600.00	600.00	401.01	369.67	753.39	694.82
		Total West Bengal	8635.45	8590.45	3599.76	3284.18	6997.31	6390.98
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	176.09	157.99	347.49	311.59
		Talcher-II	220.00	220.00	159.58	143.63	315.99	283.79
		Total Thermal	470.00	460.00	335.68	301.62	663.48	595.38
OPGC	Thermal	IB TPS	420.00	420.00	269.30	240.14	546.85	488.68
		IB TPS			31.29	19.15	68.51	56.38
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	40.82	40.62	62.37	62.01
		Hirakud-II (Chiplima)	72.00	72.00	22.37	22.33	35.94	35.82
		Balimela (6x60+2x75)	510.00	510.00	172.72	172.20	306.34	305.76
		Rengali (5x50)	250.00	250.00	29.83	29.73	53.41	53.21
		Upper Kolab (4x80)	320.00	320.00	72.16	71.77	144.63	143.86
		Indravati HPS (4x150)	600.00	600.00	192.66	191.07	408.75	405.56
		Mckd.(Odisha drawal)	57.38	57.38	26.81	26.81	51.71	51.71
		Total Hydro	2084.88	2084.88	557.38	554.52	1063.14	1057.92
		RES	499.76	499.76	27.75	27.75	55.50	55.50
		Total Odisha	3474.64	3464.64	1221.39	1155.31	2397.48	2265.99
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00	3.00	4.00	4.00
NTPC		MTPS Stg-II	390.00	390.00	245.958	221.84	458.00	411.90
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	1000.85	926.76	1887.60	1747.03
		FSTPP (U# 6)	500.00	500.00	311.20	289.78	557.92	518.13
		KhSTPP (4x210+3x500)	2340.00	2340.00	1257.81	1159.25	2500.70	2305.47
		TSTPP (2x500)	1000.00	1000.00	615.15	565.12	1216.60	1118.93
		BARH STPS II (2X660)	1320.00	1320.00	892.15	846.18	1753.33	1663.82
		BRBCL # I,2,3(3X250 MW)	750	750	368.29	340.47	768.56	711.03
		Total NTPC	7900.00	7900.00	4703.67	4355.70	9154.97	8482.62
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	29.61	29.61	51.18	51.18
		Teesta (3x170)	510.00	510.00	352.14	352.14	575.74	575.74
		TLDP -(4x33+4x40)	292.00	292.00	131.41	131.41	207.35	207.35
		Total NHPC	862.00	862.00	513.16	513.16	834.27	834.27
		MPL (U#1&2)	1050.00	1050.00	663.48	625.51	1274.54	1201.22
		APNRL (U#1,2)	540.00	540.00	229.43	207.25	469.15	424.79
		GMR (2x350)	700.00	700.00	394.31	368.03	804.20	749.22
		JITPL (2X600)	1200.00	1200.00	378.59	352.39	752.41	702.26
		CHUZACHEN** (2x55)	110.00	110.00	46.41	46.41	67.96	67.96
		JORETHANG (2x48)	96.00	96.00	21.17	21.17	36.97	36.97
		TEESTA URJA St III (6x200)	1200.00	1200.00	702.79	702.79	1107.92	1107.92
		Tashilding (2x48.5)	97.00	97.00	23.45	23.45	40.62	40.62
		DICKCHU (2x48)	96.00	96.00	64.27	64.27	86.86	86.86
		TALCHER SOLAR	10.00	10.00	1.36	1.36	2.74	2.74
		Total Thermal (E.R)	27415.00	27340.00	14431.00	13288.07	28396.16	26172.13
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2061.88	2058.94	3465.27	3459.87
		Total RES	1335.92	1335.92	53.30	53.30	126.17	126.17
		TOTAL (E.R)	34627.30	34552.30	16546.18	15400.30	31987.61	29758.18
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	137.94	137.94	294.07	294.07
	Hydro	Kurichu (4x15)	60.00	60.00	24.15	24.15	30.40	30.40
	Hydro	TALA (6x170)	1020.00	1020.00	182.69	182.69	258.39	258.39
	Hydro	DAGACHU (2x63)	126.00	126.00	15.98	15.98	30.75	30.75
		Grand Total	36193.30	36028.30	16906.95	15761.07	32601.22	30371.79

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF MAY" 2019

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 (2019-20) in MU	Cummulative PLF upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	8.29	5.30	8.29	2.70
		Muzaffarpur Stg-I	220.00	220.00	101.99	62.31	212.89	66.10
		Thermal Total	440.00	430.00	110.27	34.47	221.18	35.13
	RES		327.90	327.90	21.18		63.45	
		Total BIHAR	767.90	757.90	131.46		284.63	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	224.23	71.76	415.98	67.65
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.45		0.67	
	RES		39.00	39.00	0.00		0.00	
		Total	169.00	169.00	0.45		0.67	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	10.75	6.88	56.45	18.36
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	357.44	96.09	689.38	94.18
		Durgapur(4)	210.00	210.00	0.00	0.00	34.18	11.12
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	737.60	73.99	1455.63	74.20
		Mezia(U # 7,8)	1000.00	1000.00	622.18	83.63	1151.69	78.67
		Bokaro-A(1)	500.00	500.00	267.42	71.89	528.17	72.15
		Durgapur STPS (U#1,2)	1000.00	1000.00	667.48	89.72	1230.08	84.02
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	309.83	34.70	827.28	47.09
		Koderma STPS (U#1,2)	1000.00	1000.00	648.20	87.12	1276.13	87.17
		Total Thermal	7100.00	7090.00	3620.89	68.64	7248.99	69.84
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.44		1.25	
		Panchet (U#1,2)	80.00	80.00	2.46		4.69	
		Tilaya (U#1,2)	4.00	4.00	0.00		0.00	
		Hydro Total	147.20	147.20	2.90		5.94	
		Total DVC	7247.20	7237.20	3623.80		7254.93	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	110.55	44.36	204.94	41.79
		Santalalih TPS(U#5&6)	500.00	500.00	347.24	93.34	674.11	92.09
		Kolaghat TPS	1260.00	1260.00	409.83	43.72	772.60	41.88
		Bakreswar TPP	1050.00	1050.00	705.22	90.27	1438.95	93.61
		Sagardighi TPP	1600.00	1600.00	632.91	53.17	1236.79	52.80
		Thermal Total	4790.00	4745.00	2205.74	62.48	4327.39	62.29
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	21.56		34.89	
		Ramam (4x12.73)	51.00	51.00	11.48		23.32	
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00		0.00	
		Purulia PSS (4x225)	900.00	900.00	96.87		162.71	
		Total Hydro	1053.30	1053.30	129.90		220.92	
		RES	407.15	407.15	0.00		0.00	
		TLDP -(4x33+4x40)	292.00	292.00	131.41		207.35	
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	263.24	53.61	544.10	56.31
		0	0.00	0.00	0.00		0.48	

WBPDC,Bandel TPS Unit #3 & Unit #4 (IC=2X82.5 MW,EC=2X60 MW) decommissioned from 01.04.2018.

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 (2019-20) 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	56.29	56.05	101.30	51.26
		Budge-Budge (3x250)	750.00	750.00	543.57	97.41	1049.72	95.60
		Total CESC	1125.00	1125.00	599.86	71.67	1151.02	69.89
HEL	Thermal		600.00	600.00	401.01	89.83	753.39	85.77
		Total West Bengal	8635.45	8590.45	3599.76		6997.31	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	176.09	98.62	347.49	98.90
		Talcher-II	220.00	220.00	159.58	97.50	315.99	98.11
		Total Thermal	470.00	460.00	335.68	98.08	663.48	98.52
OPGC	Thermal	IB TPS	420.00	420.00	269.30	86.18	546.85	88.94
		IB TPS			31.29		68.51	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	40.82		62.37	
		Hirakud-II (Chiplima)	72.00	72.00	22.37		35.94	
		Balimela (6x60+2x75)	510.00	510.00	172.72		306.34	
		Rengali (5x50)	250.00	250.00	29.83		53.41	
		Upper Kolab (4x80)	320.00	320.00	72.16		144.63	
		Indravati HPS (4x150)	600.00	600.00	192.66		408.75	
		Mckd.(Odisha drawal)	57.38	57.38	26.81		51.71	
		Total Hydro	2084.88	2084.88	557.38		1063.14	
		RES	499.76	499.76	27.75		55.50	
		Total Odisha	3474.64	3464.64	1221.39		2397.48	
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00		4.00	
NTPC		MTPS Stg-II	390	390	245.958	84.77	458.00	80.22
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	1000.85	84.08	1887.60	80.58
		FSTPP (U# 6)	500.00	500.00	311.20	83.66	557.92	76.22
		KhSTPP (4x210+3x500)	2340.00	2340.00	1257.81	72.25	2500.70	73.00
		TSTPP (2x500)	1000.00	1000.00	615.15	82.68	1216.60	83.10
		BARH STPS II (2X660)	1320.00	1320.00	892.15	90.84	1753.33	90.73
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	368.29	66.00	768.56	70.00
		Total NTPC	7900.00	7900.00	4703.67	79.82	9154.97	79.05
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	29.61		51.18	
		Teesta (3x170)	510.00	510.00	352.14		575.74	
		TLDP -(4x33+4x40)	292.00	292.00	131.41		207.35	
		Total NHPC	862.00	862.00	513.16		834.27	
	Thermal	MPL (U#1&2)	1050.00	1050.00	663.48	84.93	1274.54	82.91
		APNRL (U#1,2)	540.00	540.00	229.43	57.11	469.15	59.34
		GMR (2x350)	700.00	700.00	394.31	75.71	804.20	78.47
		JITPL (2X600)	1200.00	1200.00	378.59	42.41	752.41	42.83
		CHUZACHEN** (2x55)	110.00	110.00	46.41		67.96	
		JORETHANG (2x48)	96.00	96.00	21.17		36.97	
		TEESTA URJA St III (6x200)	1200.00	1200.00	702.79		1107.92	
		Tashilding (2x48.5)	97.00	97.00	23.45		40.62	
		DICKCHU (2x48)	96.00	96.00	64.27		86.86	
		TALCHER SOLAR	10.00	10.00	1.36		2.74	
		Total Thermal (E.R)	27415.00	27340.00	14431.00	70.73	28396.16	70.74
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2061.88		3465.27	
		Total RES	1335.92	1335.92	53.30		126.17	
		TOTAL (E.R)	34627.30	34552.30	16546.18		31987.61	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	137.94		294.07	
	Hydro	Kurichu (4x15)	60.00	60.00	24.15		30.40	
	Hydro	TALA (6x170)	1020.00	1020.00	182.69		258.39	
	Hydro	DAGACHU (2x63)	126.00	126.00	15.98		30.75	
		Grand Total	36193.30	36028.30	16906.95		32601.22	

➤ Regional PLF has been calculated without considering the effective capacity of IBTPS-U#3, (660 MW) and New Nabinagar TPS U#1(660 MW) and their generations of 31.286 MU & 12.26 MU respectively during the month of May'19

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF MAY 2019 (18-5-2019)

Date **18-May-19**
Time **24.00** Hrs.
Frequency **49.96** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	768	758	0	166	0	166
JUVNL	589	589	0	291	0	291
DVC	7247	7237	13	4591	0	4604
ODISHA	3475	3465	1155	1105	34	2294
WBSEDCL	6250	6205	406	3229	0	3635
TLDP	292	292	171	0	0	171
HEL HALDIA	600	600	0	551	0	551
CESC	1125	1125	0	836	0	836
DPL	660	660	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	7900	7900	0	6497	0	6497
NHPC	570	570	559	0	0	559
CHUKHA	360	270	130	0	0	130
KURICHU	60	60	24	0	0	24
TALA	1020	1020	173	0	0	173
MPL	1050	1050	0	981	0	981
APNRL	540	540	0	162	0	162
Kamalganga (GMR)	700	700	0	588	0	588
JITPL	1200	1200	0	485	0	485
Chuzachen	110	110	104	0	0	104
Jorethang	96	96	62	0	0	62
TEESTA URJA St III	1200	1200	1271	0	0	1271
Tashilding	97	97	52	0	0	52
DICKCHU	96	96	106	0	0	106
<u>Daghachu</u>	126	126	20	0	0	20
<u>Solar</u>	10	10	0	0	0	0
<u>0</u>	0	0	0	0	0	0
<u>Total</u>	36193	36028	4247	19483	34	23764
Import From Captive:						1000
Export To:						
NER						-281
SR						2583
WR						-3514
NR						2030.05
Bangladesh						934.18
Nepal						230.88
Total						1983

➤ I Net Peak Demand Met (MW) :

22781

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MAY'2019 (18-5-2019)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From CHPS, KHPS & TALA	Export to other region	Met	Correction	Shed	Requirement
1	3172	18768	21940	959	269	1170	21997	-21	3	22000
2	2723	18784	21507	958	276	1287	21455	-30	4	21459
3	2232	18629	20861	956	275	1006	21086	-13	8	21094
4	2104	18803	20907	911	276	1272	20822	-13	4	20826
5	1969	18871	20840	923	271	1440	20593	-25	2	20596
6	2179	18469	20648	929	261	2560	19277	-27	3	19280
7	1970	18264	20233	737	284	2855	18400	-21	8	18408
8	1936	18397	20333	701	335	3037	18331	-22	13	18344
9	1944	17919	19863	693	437	2481	18512	-24	8	18520
10	1993	17216	19209	686	600	1795	18700	-15	6	18706
11	2180	17041	19221	669	623	1556	18957	-30	3	18960
12	2317	16865	19182	697	594	1065	19408	20	2	19430
13	2328	17612	19940	752	585	913	20364	-7	2	20366
14	2074	17452	19526	785	329	486	20154	32	0	20185
15	2665	18583	21249	772	509	1823	20706	14	47	20767
16	2830	19424	22254	888	484	2766	20861	33	47	20941
17	2879	19821	22700	799	474	3507	20465	63	2	20530
18	2144	19786	21930	817	439	3689	19497	77	0	19573
19	2966	19331	22297	942	374	3115	20498	48	0	20546
20	3906	19737	23643	994	374	2606	22404	18	2	22423
21	4031	19763	23794	1020	387	2699	22501	55	115	22671
22	3933	19549	23482	1005	397	2423	22461	10	4	22474
23	4289	19309	23598	1037	387	2589	22433	69	14	22516
24	3954	19483	23436	1000	328	1983	22781	34	16	22830

Hourly Load Generation Data of ER On Regional Lean Day During The Month of MAY'2019 (4-5-2019)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From CHPS, KHPS & TALA	Export to other region	Met	Correction	Shed	Requirement
1	2299	14389	16688	745	607	6012	12029	-6	213	12235
2	2080	13296	15376	684	611	5178	11493	-11	238	11720
3	2155	12451	14605	671	626	4595	11308	-1	255	11562
4	2224	11987	14210	663	731	4108	11496	-17	281	11760
5	2240	12040	14280	615	748	4315	11327	-6	284	11606
6	2272	11992	14264	617	777	4531	11127	6	262	11395
7	2238	12211	14449	629	711	4539	11250	-4	240	11485
8	2378	12032	14409	641	754	4185	11619	2	218	11839
9	2439	12243	14682	631	1099	4723	11689	-11	197	11875
10	2823	12760	15583	530	1274	5284	12103	-5	169	12267
11	2748	12953	15701	530	1280	5338	12173	-7	148	12313
12	2727	13470	16197	509	1288	5272	12722	-9	125	12837
13	2909	13727	16637	517	1293	5388	13058	9	95	13162
14	3082	13387	16469	591	1313	5041	13332	0	81	13413
15	3069	13738	16807	576	1317	5042	13657	13	95	13766
16	2996	14238	17234	570	1313	5185	13931	-9	68	13991
17	3218	14700	17918	607	1314	5461	14378	-6	66	14438
18	3593	14849	18443	626	1295	5994	14370	30	58	14458
19	4018	15266	19284	680	1272	5173	16063	1	45	16109
20	4134	16143	20277	715	1270	4968	17294	56	118	17469
21	3768	16475	20243	685	1291	5170	17049	21	111	17181
22	3803	16671	20473	730	1296	5297	17203	45	70	17318
23	3453	16410	19863	702	1313	5523	16355	82	65	16501
24	3115	16366	19481	691	1317	5598	15891	25	24	15940

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

FOR THE MONTH OF MAY'2019

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 2.40 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 8.25 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.09 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 20.81 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

May-19

D A T E																		
	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	49.9		>50.05	49.9								
	TO	TO	TO	TO	TO	TO	<49.9	TO		TO	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	05	10	17	22	24	24		50.1		50.05	HZ			HZ	HZ			HZ
01-May	50.04	50.08	49.99	50.05	50.01	50.03	1.70	56.80	41.50	56.80	50.33	18:02:10	49.81	13:40:00	50.22	0:00	49.88	0:00
02-May	50.03	50.02	49.98	50.02	50.02	50.01	3.40	67.10	29.40	67.10	50.18	01:34:10	49.77	12:16:30	50.11	0:00	49.87	0:00
03-May	50.01	50.00	50.03	49.97	49.95	50.00	6.10	66.00	27.90	66.00	50.17	18:02:40	49.75	20:49:40	50.11	0:00	49.81	0:00
04-May	50.02	50.01	50.00	49.95	49.91	49.99	9.20	76.30	14.50	76.30	50.22	18:02:20	49.75	22:12:30	50.06	0:00	49.80	0:00
05-May	50.01	49.99	50.00	49.96	50.00	49.99	6.70	74.10	19.10	74.10	50.16	14:01:40	49.81	19:14:50	50.08	0:00	49.87	0:00
06-May	50.01	49.99	49.95	49.98	49.94	49.98	8.10	80.40	11.50	80.40	50.14	19:03:30	49.70	14:50:50	50.06	0:00	49.76	0:00
07-May	49.97	50.00	49.97	49.99	49.90	49.97	9.40	80.40	10.20	80.40	50.25	18:03:50	49.77	22:11:40	50.13	0:00	49.85	0:00
08-May	49.95	50.01	49.96	49.93	49.85	49.95	20.60	71.60	7.80	71.60	50.13	06:02:10	49.73	02:56:30	50.06	0:00	49.81	0:00
09-May	49.98	50.01	49.93	49.91	49.87	49.95	20.70	67.90	11.40	67.90	50.13	07:33:40	49.65	14:16:50	50.08	0:00	49.70	0:00
10-May	49.97	49.96	50.02	50.01	49.98	49.99	11.10	65.20	23.80	65.20	50.27	18:01:50	49.69	20:37:30	50.20	0:00	49.79	0:00
11-May	50.01	50.02	50.00	50.01	49.95	50.00	2.80	75.80	21.40	75.80	50.15	13:02:40	49.77	14:14:10	50.08	0:00	49.84	0:00
12-May	49.96	50.00	50.00	50.01	50.00	49.99	5.10	74.60	20.30	74.60	50.22	18:03:00	49.79	03:27:30	50.11	0:00	49.82	0:00
13-May	49.96	50.00	49.96	50.05	49.99	49.99	8.80	67.80	23.40	67.80	50.22	18:02:20	49.79	11:39:50	50.15	0:00	49.85	0:00
14-May	50.01	50.01	49.98	49.96	49.92	49.98	8.50	78.80	12.70	78.80	50.16	10:02:40	49.77	22:09:50	50.06	0:00	49.85	0:00
15-May	49.97	50.01	49.96	49.98	49.97	49.98	11.00	75.10	13.90	75.10	50.24	18:03:00	49.82	13:40:10	50.10	0:00	49.81	0:00
16-May	50.00	50.00	49.99	49.98	49.98	49.99	4.50	82.20	13.30	82.20	50.16	08:02:30	49.78	09:25:00	50.09	0:00	49.90	0:00
17-May	49.98	50.00	50.00	50.03	49.89	49.99	6.90	73.80	19.30	73.80	50.22	19:01:50	49.79	23:23:20	50.10	0:00	49.82	0:00
18-May	50.03	50.03	49.98	49.94	49.94	49.99	10.94	68.44	20.62	68.44	50.13	08:01:30	49.75	16:15:00	50.08	0:00	49.84	0:00
19-May	49.96	50.01	49.98	49.97	49.98	49.98	8.60	76.50	14.90	76.50	50.17	12:03:10	49.78	10:35:50	50.09	0:00	49.79	0:00
20-May	49.96	49.93	49.90	49.94	49.83	49.92	15.80	78.50	5.70	78.50	50.13	12:03:30	49.65	21:04:20	50.04	0:00	49.87	0:00
21-May	49.93	50.01	49.94	49.95	49.95	49.96	20.50	66.20	13.30	66.20	50.21	18:02:10	49.84	21:17:30	50.11	0:00	49.76	0:00
22-May	49.98	50.02	49.97	50.00	49.98	49.99	5.30	77.40	17.30	77.40	50.19	19:05:20	49.76	02:13:00	50.22	0:00	49.88	0:00
23-May	49.99	49.97	50.00	50.04	50.00	50.00	5.80	74.90	19.30	74.90	50.28	18:28:10	49.76	06:49:20	50.22	0:00	49.85	0:00
24-May	50.01	50.02	50.01	49.99	50.02	50.01	1.80	74.20	24.00	74.20	50.15	13:01:20	49.83	14:28:40	50.08	0:00	49.91	0:00
25-May	50.02	50.04	49.99	49.99	49.92	50.00	6.94	65.04	28.02	65.04	50.22	08:00:50	49.77	20:34:50	50.15	0:00	49.84	0:00
26-May	50.01	50.03	50.00	50.03	49.96	50.01	1.40	74.80	23.80	74.80	50.21	18:04:10	49.86	22:12:30	50.12	0:00	49.91	0:00
27-May	50.00	50.00	49.91	49.98	49.89	49.96	16.90	75.10	8.00	75.10	50.15	22:02:10	49.72	16:20:00	50.05	0:00	49.77	0:00
28-May	49.97	50.02	49.96	50.02	49.92	49.98	8.00	75.30	16.70	75.30	50.23	18:02:20	49.75	14:14:40	50.11	0:00	49.85	0:00
29-May	49.98	50.01	50.00	50.01	49.98	50.00	3.40	77.20	19.40	77.20	50.23	13:03:50	49.80	23:11:00	50.11	0:00	49.89	0:00
30-May	50.01	50.04	49.99	50.04	49.94	50.01	4.60	64.10	31.30	64.10	50.21	17:05:30	49.81	23:15:30	50.14	0:00	49.91	0:00
31-May	49.99	50.01	50.01	50.01	50.03	50.01	1.40	69.30	29.30	69.30	50.22	18:30:30	49.79	05:54:40	50.15	0:00	49.85	0:00
MAX	50.04	50.08	50.03	50.05	50.03	50.03	20.70	82.20	41.50	82.20	50.33		49.86		50.22		49.91	
MIN	49.93	49.93	49.90	49.91	49.83	49.92	1.40	56.80	5.70	56.80	50.13		49.65		50.04		49.70	
AVG	49.99	50.01	49.98	49.99	49.95	49.99	8.49	72.72	18.79	72.72	50.20		49.77		50.11		49.84	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.33 Hz at 18:02.10 Hrs.

Minimum Frequency : 49.65 Hz at 14:16 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.22 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.70 Hz On 00/01/00 at 00:00 Hrs

Frequency Distribution in % of Time			
Hz	<49.9	49.9-50.05	>50.05
% of Time	8.49	72.72	18.79

ANNEXURE-II

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF MAY'2019

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	425	400	425	400	423	370	420	387

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	423	386	416	394	421	401	418	394

ANNEXURE-III

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 (49.2 Hz) (Inst.)	STAGE-II (49.0 Hz) (Inst.)	STAGE-III (48.8 Hz) (Inst.)	STAGE-IV 48.6 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.

A.

WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN

May-19

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-05-19)	(31-05-18)		
Hirakud	192	180	183.98	184.83	186.36	01.05.19
Balimela	462	439	447.08	441.90	450.62	01.05.19
Rengali	123	109	111.60	113.86	113.96	01.05.19
Upperkolab	858	844	847.59	847.77	849.58	01.05.19
Indravati	642	625	628.82	628.83	631.40	01.05.19
Subernrekha	590	580	584.70	583.81	585.06	01.05.19

B.

CPP/IPP IMPORT by Eastern Region Constituents during

May-19

(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	46.34
West Bengal	67.39	20.13	0	0	0	0	0	45.08	132.60
ODISHA	0	0	54.96	161.03	6.78	0.34	0	331.64	554.75
DVC	0	0	0	0	0	0	12.05	0	12.05
TOTAL	67.39	20.13	54.96	161.03	6.78	0.34	12.05	376.72	745.73

C.

Distribution of Schedule Supply among Key Customers by IPPs during

May-19

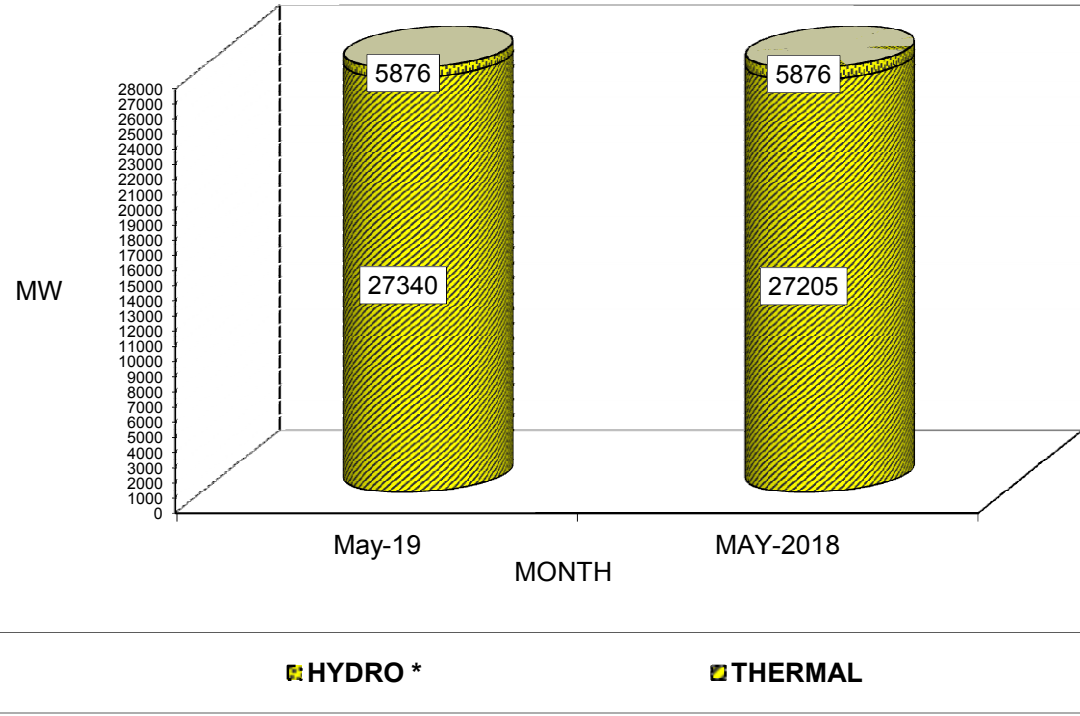
(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	180.57	155.29	91.57	0.00	0	0	198.80	626.23
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	14.75	0	10.97	0.00	121.06	65.53	212.310
Total	180.57	170.04	91.57	10.97	0.00	121.06	264.33	838.54

Task/ Works performed by ERPC during MAY, 2019		
Sl. No.	Period	Date of Issue of Report
1	RTA July-17 Revision-II & August-17 Revision-I	01.05.2019
2	DSM Account 010419-070419(Revision-I)	02.05.2019
3	REA April 2019	03.05.2019
4	RTA April-19	03.05.2019
5	DC-MPL-APRIL 2019	06.05.2019
6	DC- Teesta III – April 2019	06.05.2019
7	Bilateral REA for April -2019	06.05.2019
8	Load Generation Balance Report 2019-20	06.05.2019
9	REA Bhutan April-19	08.05.2019
10	DSM, RRAS & SCED Accounts 010419-070419(Revision-II)	08.05.2019
11	DSM, RRAS, FRAS & SCED Accounts 080419-140419	08.05.2019
12	VAR Account 080419-140419	08.05.2019
13	AS-3 Format 16.05.19-15.06.19	14.05.2019
14	RTDA for the month of October, November& December-18	14.05.2019
15	BRBCL share allocation w.e.f 15.05.2019	14.05.2019
16	DSM Account 080419-140419(Revision-I)	17.05.2019
17	DSM, RRAS, FRAS & SCED Accounts 150419-210419	17.05.2019
18	VAR Account 150419-210419	17.05.2019
19	DSM, RRAS, FRAS & SCED Accounts 220419-280419	21.05.2019
20	VAR Account 220419-280419	21.05.2019
21	URS March-19	24/05/2019
22	DSM, RRAS, FRAS & SCED Accounts 290419-050519	29.05.2019
23	VAR Account 290419-050519	29.05.2019
24	VAR Account 060519-120519	30.05.2019
25	DSM, RRAS, FRAS & SCED Accounts 060519-120519	30.05.2019
26	Addendum to DSM Account issued on 29.05.2019	30.05.2019
27	URS April-19	31.05.2019
28	Monthly progress report for the month of April-19	31.05.2019
29	Transmission System Availability Certificate for CBPTCL Transmission Elements for March-19	06.05.2019
30	Transmission System Availability Certificate for Powerlinks Transmission Elements for March-19	20.05.2019
31	Transmission System Availability Certificate for TPTL Transmission Elements for March-19	06.05.2019
32	Transmission System Availability Certificate for PKTCL Transmission Elements for March-19	06.05.2019
33	Transmission System Availability Certificate for OPGCL Transmission Elements for March-19	06.05.2019
34	Transmission System Availability Certificate for DMTCL Transmission Elements for March-19	20.05.2019
35	Transmission System Availability Certificate for POWERGRID Transmission Elements for February-19	08.05.2019
36	Provisional Power Supply Position for April-2019	07.05.2019
37	Revised Power Supply Position for April-2019	29.05.2019

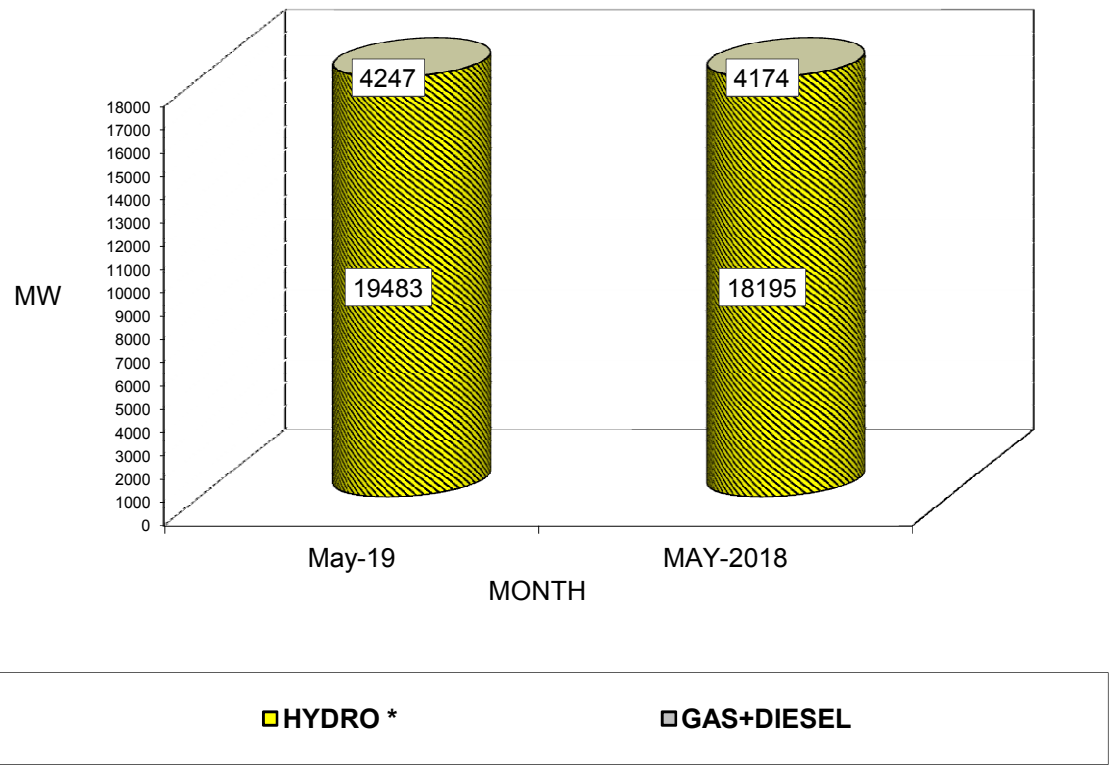
List of Meetings / Workshops held during May, 2019			
Sl. No.	Description	Date	Venue
1	ISO Meeting	01.05.2019	ERPC, Kolkata
2	Meeting on OCC Shutdown	15.05.2019	ERLDC, Kolkata
3	Meeting on Mangdechhu Power	08.05.2019	ERPC, Kolkata
4	157th OCC Meeting	20.05.2019	ERPC, Kolkata
5	79th PCC Meeting	21.05.2019	ERPC, Kolkata
6	Meeting with PGCIL & TPTCL on certification of Tr. Availability	21.05.2019	ERPC, Kolkata
7	Hindi Meeting	24.05.2019	ERPC, Kolkata
8	Workshop on AGC	31.05.2019	ERPC, Kolkata
9	Validation Committee Meeting at ERLDC	31.05.2019	ERLDC, Kolkata

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



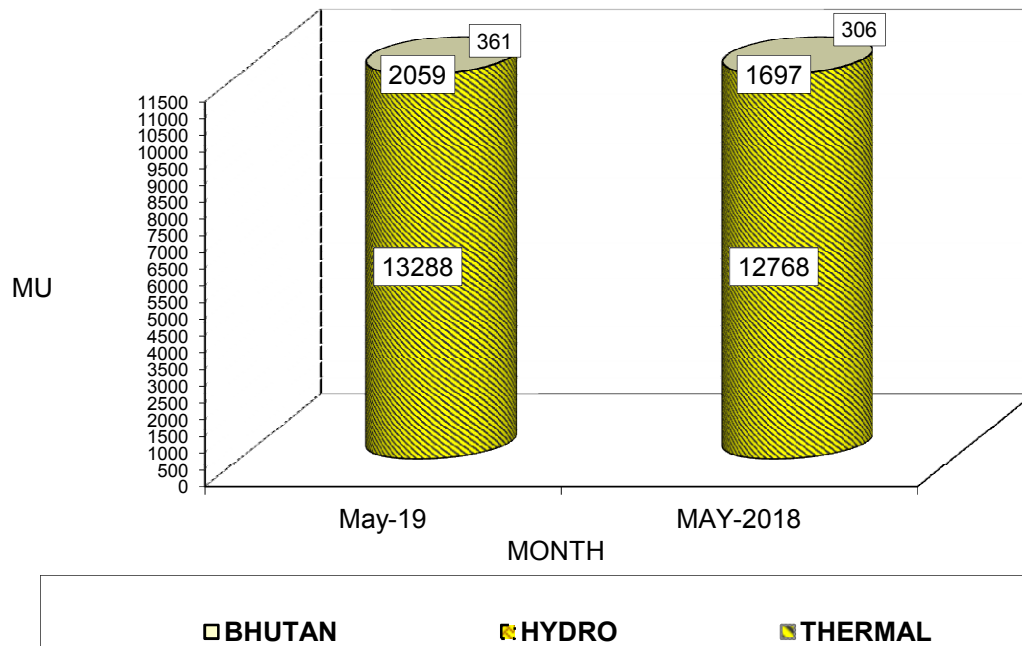
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

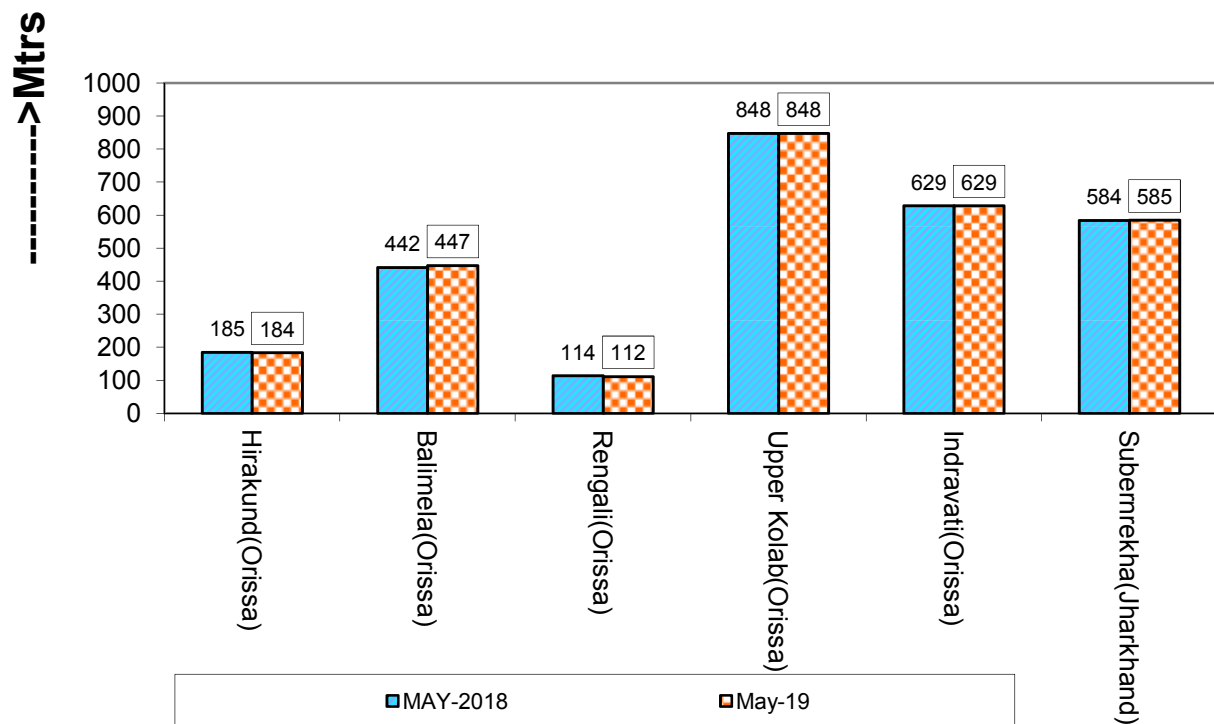


*Includes contribution from HEP of Bhutan

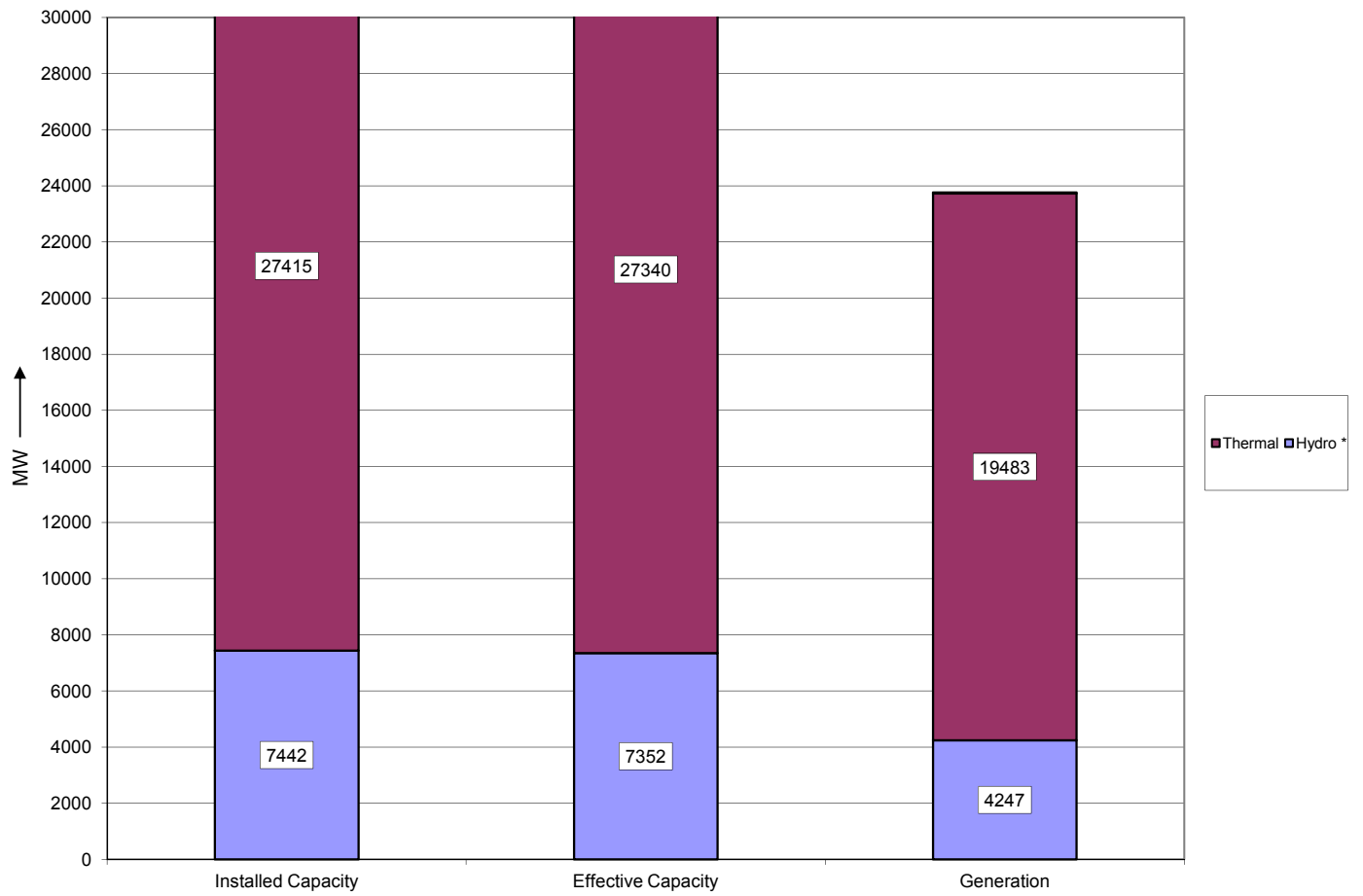
NET ENERGY GENERATION



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

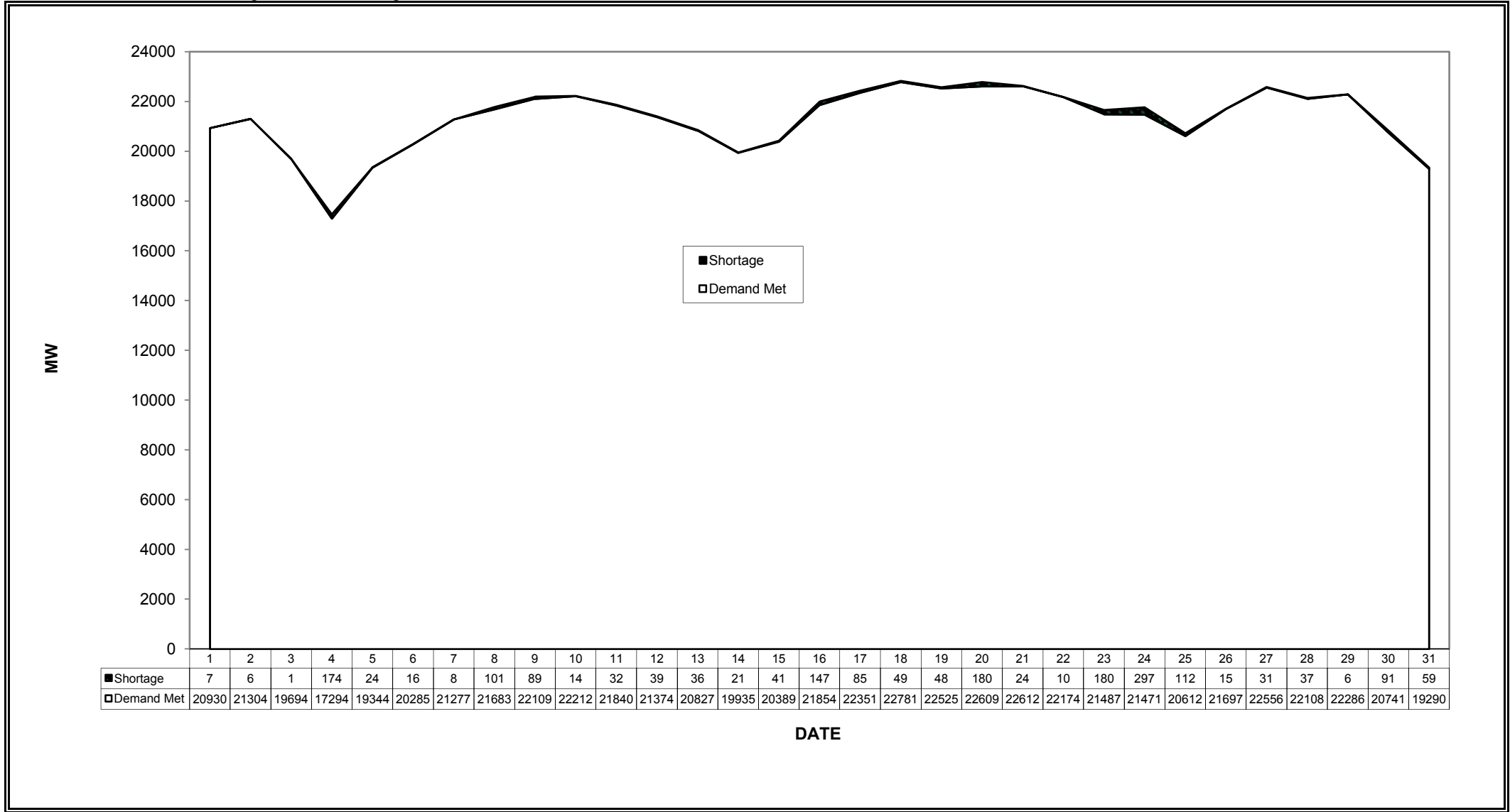


Capacity / Actual Generation Pattern of ER on Peak Day (18-5-2019) at 24.00 hrs.

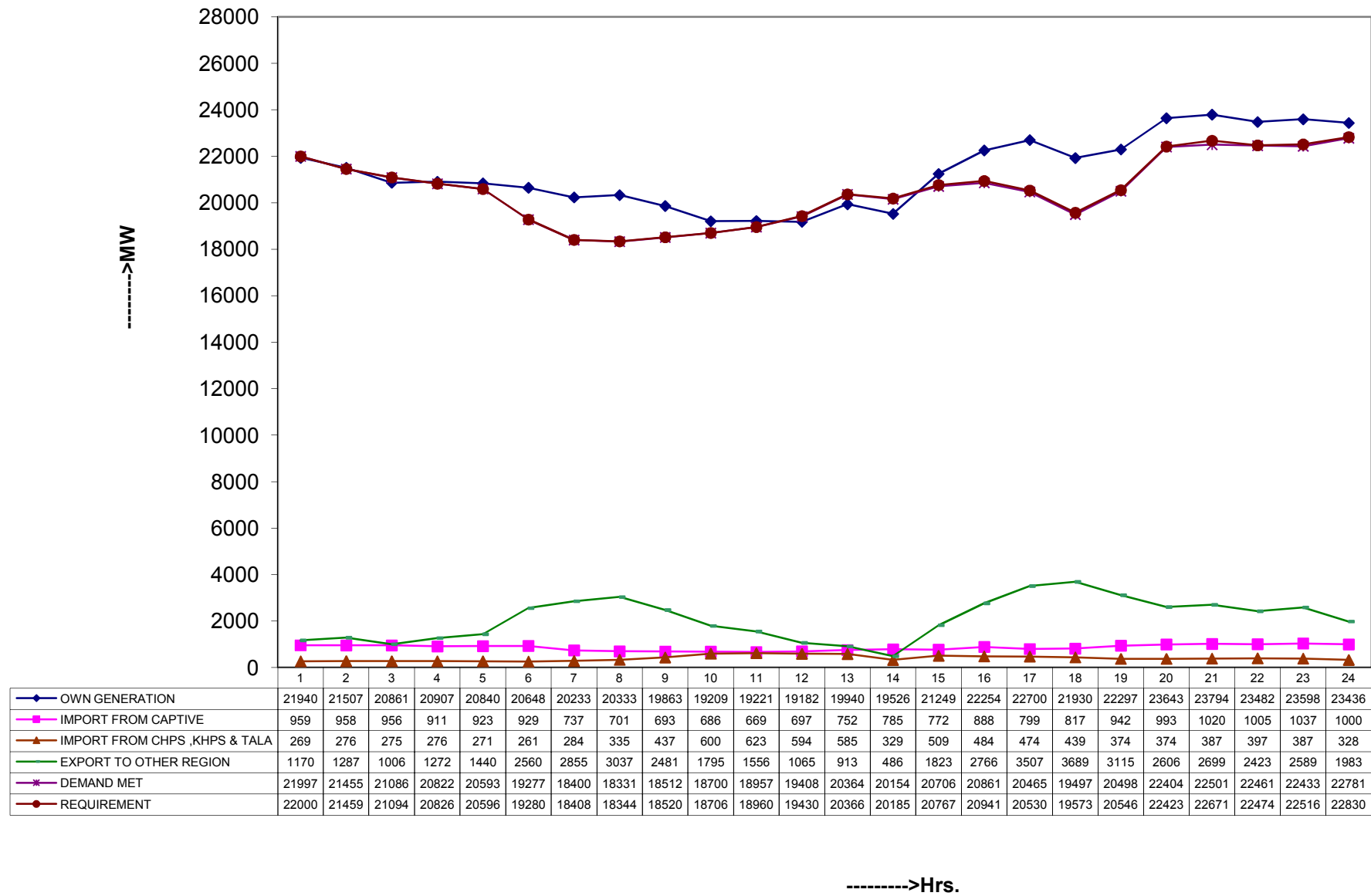


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

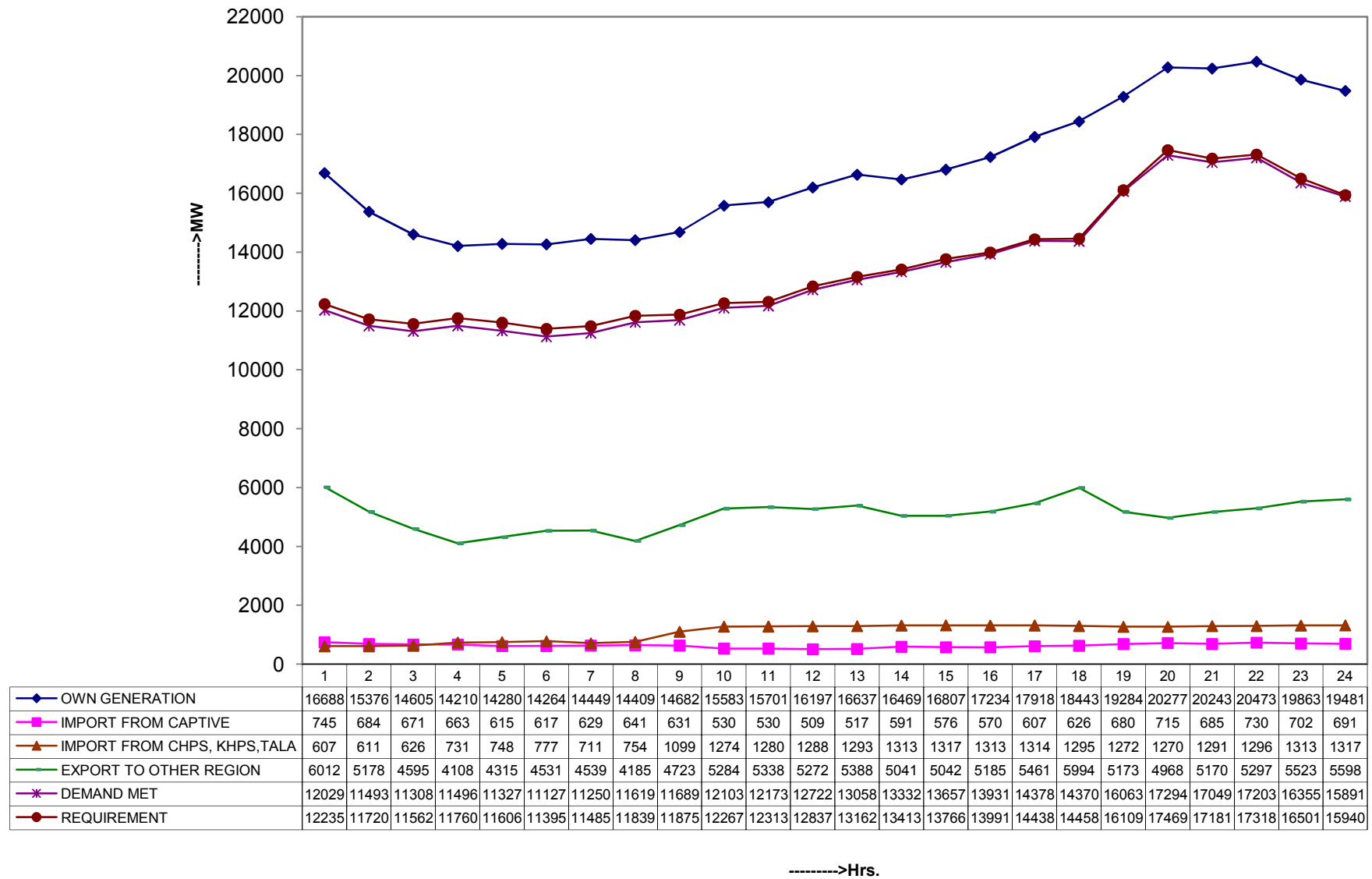
Peak Demand Met / Shortage of Eastern Region For The Month Of MAY'2019



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MAY'2019 (18-5-2019)

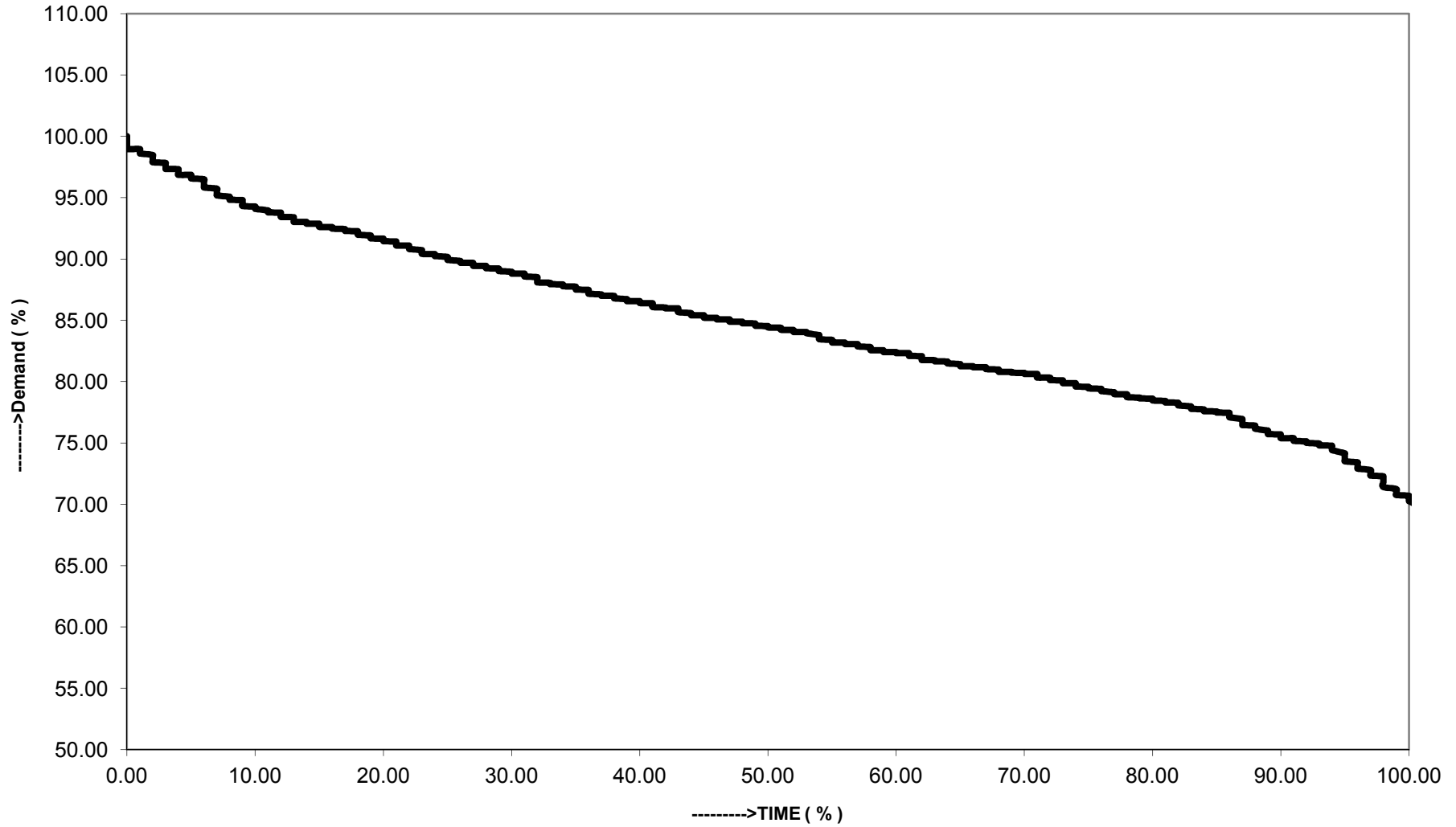


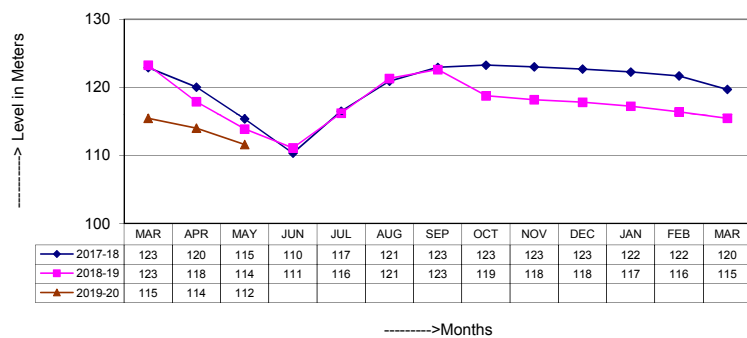
Hourly Load Generation Data of ER On Regional Lean Day During The Month of MAY'2019 (4-5-2019)



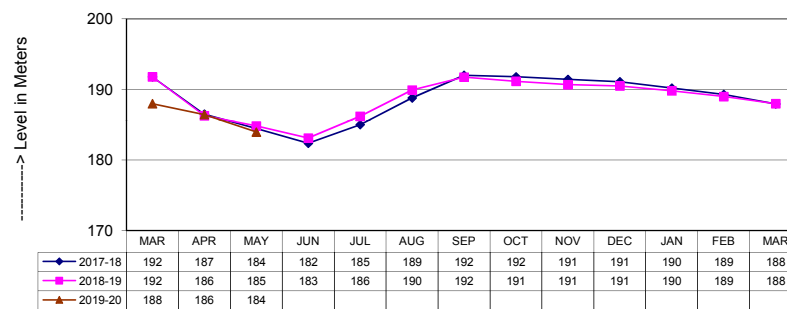
Monthly Load Duration Curve of Eastern Region for May-19

Maximum Demand met : 22781 MW
Minimum Demand met: 11127 MW

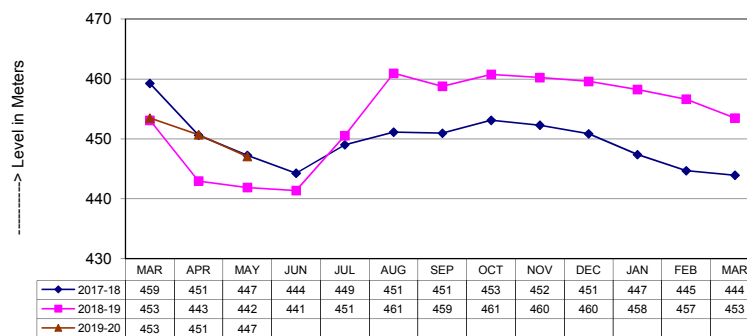


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH**RENGALI RESERVOIR LEVEL**

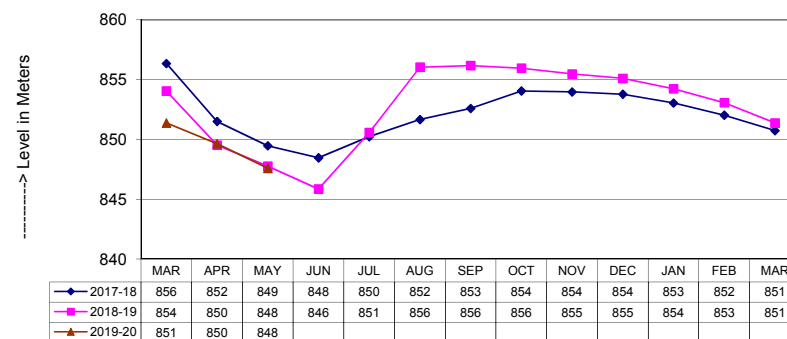
----->Months

HIRAKUD RESERVOIR LEVEL

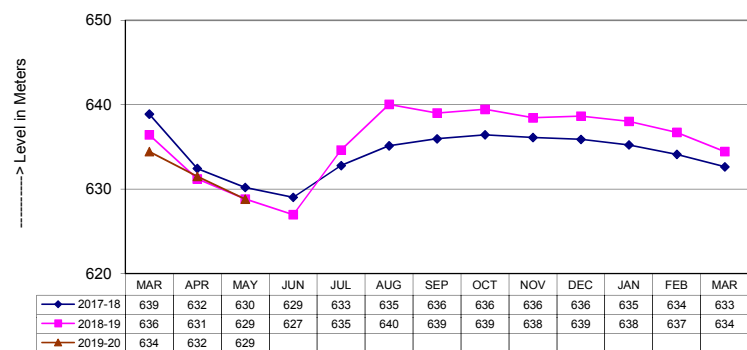
----->Months

BALIMELA RESERVOIR LEVEL

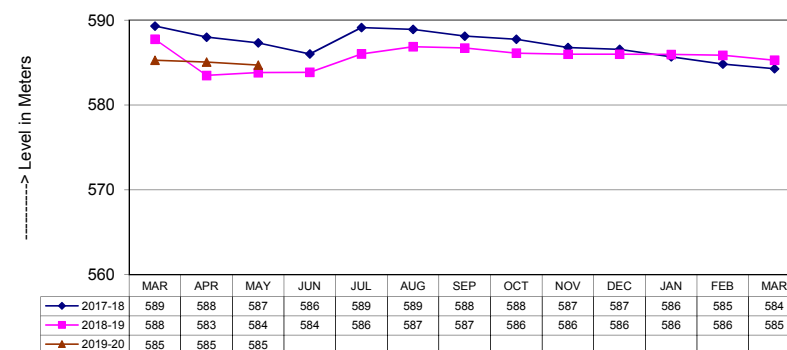
----->Months

UPPER KOLAB RESERVOIR LEVEL

----->Months

INDRAVATI RESERVOIR LEVEL

----->Months

SUBERNREKHA RESERVOIR LEVEL

----->Months