

National Load Despatch Centre

POWER SYSTEM OPERATION CORPORATION LIMITED

(A Government of India Enterprise)

CIN No.: U40105DL2009GOI188682

B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

Ref: POSOCO/NLDC/SO/Weekly Report

Date: 08th May 2020

То

- कार्यपालक निदेशक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड , कोलकाता 700033
 Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 2. कार्यपालक निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- 3. कार्यपालक निदेशक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र , अंधेरी, मुंबई 400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. कार्यपालक निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यपालक निदेशक, द. क्षे. भा. प्रे. के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु 560009
 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Weekly Status Report 26th Apr-2020 to 02 May-2020.

महोदय/Dear Sir.

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, २६ अप्रैल-२०२० से ०२ मई -२०२०, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर निम्न लिंक पर उप्लब्ध है :-

As per article 5.5.1 of the Indian Electricity Grid Code, the weekly status report pertaining power supply position report of All India Power System for the week 26th Apr-2020 to 02 May-2020 is available at the NLDC website.

Thanking You.

Yours faithfully,

CGM (SO)

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (26 अप्रैल 2020 से 02 मई 2020 तक)

रिपोर्टिंग तिथि:-

8-May-20

(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

1. अधिकतम मांग आपूर्ति और अधिकतम कमी (मे॰वा॰)

क्षेत्र	उत्तरी ह	नेत्र	पश्चिम	गि क्षेत्र	दक्षिण	गी क्षेत्र	पूर्वी	क्षेत्र	पूर्वोत्तर क्षेत्र			कुल
दिनांक	अधिकतम मांग आपूर्ति	आधिकतम कमी										
	(मे॰वा॰)	(मे॰वा॰)										
26-04-2020	31666	541	35783		31019		14154		2004	63	114626	604
27-04-2020	35055	519	37233		32803		14694		2016	136	121801	655
28-04-2020	37150	541	38668		32150		14420		2078	81	124466	622
29-04-2020	38538	928	38218		32348		15395		2069	119	126568	1047
30-04-2020	39986	536	38518		32071		16425		2200	59	129200	595
01-05-2020	39939	519	38408		31886		13668		2264	27	126165	546
02-05-2020	40679	529	39218		32676		16007		1935	171	130515	700

2. ऊर्जा आपूर्ति और पनबिजली उत्पादन (मि॰यू०)

क्षेत्र	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र			कुल
/	কৰ্जা आपूर्ति	पनविजली उत्पादन	ऊर्जा आपूर्ति	पनविजली उत्पादन	ऊर्जा आपूर्ति	पनविजली उत्पादन	ऊर्जा आपूर्ति	पनविजली उत्पादन	ऊर्जा आपूर्ति	पनविजली उत्पादन	ऊर्जा आपूर्ति	पनविजली उत्पादन
तिथि	(मि०यू०)	(मि॰यू॰)	(मि॰यू॰)	(मि॰यू॰)	(मि॰यू॰)	(मि॰यू०)	(मि॰यू०)	(मि॰यू०)	(मि॰यू०)	(मि॰यू०)	(मि॰यू०)	(मि॰यू॰)
26-04-2020	709	198	943	50	782	57	275	50	33	9	2742	363
27-04-2020	684	202	944	44	792	68	285	54	35	5	2740	374
28-04-2020	751	216	968	50	804	78	276	66	35	5	2834	416
29-04-2020	810	222	978	51	749	65	290	63	34	6	2861	406
30-04-2020	839	233	982	34	783	64	314	68	36	7	2955	406
01-05-2020	842	237	972	34	783	69	294	65	37	7	2928	412
02-05-2020	865	246	996	50	805	75	295	72	37	7	2997	450

3. आवृत्ति (प्रतिशत समय में)

तिथि	49.8-49.9	<49.9	49.9-50.05	>50.05	Average	FVI
MIS	ऑo इंo ग्रिड					
26-04-2020	3.46	3.48	65.30	31.22	50.02	0.040
27-04-2020	2.84	2.84	71.42	25.74	50.02	0.029
28-04-2020	2.41	2.41	79.50	18.09	50.01	0.025
29-04-2020	0.91	0.91	79.43	19.65	50.01	0.024
30-04-2020	1.13	1.13	80.31	18.55	50.01	0.021
01-05-2020	2.20	2.20	73.17	24.63	50.01	0.034
02-05-2020	0.65	0.65	78.74	20.61	50.01	0.022

^{*}NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

5. Maximum Demand Met during the day & Peak Hour Shortage in States (in MW)

	Date	26-04	I-2020	27-04	-2020	28-04	-2020	29-04	-2020	30-04	1-2020	01-05	5-2020	02-05	j-2020
Region	States	Max. Demand Met during the day	Peak hr Shortage	03-01-2020	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage								
	Punjab	4534	0	4154	0	4661	0	4725	0	5277	0	5473	0	5555	0
	Haryana	5280	0	4925	0	5688	0	6206	0	6382	0	6729	0	6452	0
	Rajasthan	8269	0	7845	0	8431	0	9060	68	9138	0	9581	0	9878	0
	Delhi	3072	0	2641	0	2947	0	3174	0	3309	0	3461	0	3471	0
NR	UP	13209	0	13723	0	13956	0	15968	0	15866	0	15462	0	16399	0
	Uttarakhand	968	0	1044	0	1113	0	1129	0	1074	0	1150	0	1127	0
	HP	785	0	845	0	841	0	892	0	885	0	879	0	905	0
	J&K	2190	548	2078	519	2163	541	2120	530	2190	548	2075	519	2117	529
	Chandigarh	137	0	135	0	138	0	147	0	151	0	161	0	158	0
	Chhattisgarh	2946	0	2857	0	2966	0	3006	0	3092	0	3104	0	3262	0
	Gujarat	12557	0	12787	0	13114	0	13071	0	13508	0	13173	0	13474	0
	MP	8528	0	7848	0	8355	0	8537	0	8825	0	8504	0	8826	0
WR	Maharashtra	17969	0	18675	0	18629	0	18392	0	18381	0	17934	0	18238	0
***	Goa	417	0	456	0	469	0	472	0	465	0	428	0	455	0
	DD	122	0	145	0	156	0	157	0	159	0	139	0	158	0
	DNH	181	0	211	0	234	0	247	0	262	0	235	0	271	0
	Essar steel	335	0	344	0	301	0	304	0	363	0	397	0	451	0
	Andhra Pradesh	7579	0	7383	0	7649	0	6866	0	7191	0	7537	0	7838	0
	Telangana	6576	0	6433	0	6469	0	6003	0	6678	0	6253	0	6373	0
SR	Karnataka	10240	0	10188	0	10301	0	9176	0	9758	0	9347	0	9737	0
J.,	Kerala	2996	0	3636	0	3416	0	3444	0	3338	0	3517	0	3509	0
	Tamil Nadu	10030	0	10172	0	10205	0	10014	0	10358	0	10621	0	10812	0
	Pondy	253	0	278	0	278	0	286	0	283	0	291	0	310	0
	Bihar	3949	0	4155	0	3893	0	4452	0	4550	0	4227	0	4325	0
	DVC	1509	0	3206	0	1499	0	1923	0	1618	0	1687	0	1729	0
ER	Jharkhand	1224	0	1079	0	1214	0	1291	0	1221	0	1125	0	1280	0
	Odisha	2944	0	3107	0	3682	0	3207	0	3493	0	3322	0	3481	0
	West Bengal	5153	0	5004	0	4758	0	5443	0	5690	0	5152	0	5156	0
	Sikkim	88	0	105	0	105	0	113	0	107	0	77	0	103	0
	Arunachal Pradesh	110	1	109	1	106	0	104	1	89	1	91	1	102	1
	Assam	1201	48	1147	101	1270	53	1215	90	1338	41	1393	15	1437	90
	Manipur	157	1	172	1	163	3	181	1	180	0	184	0	165	2
NER	Meghalaya	251	0	249	0	263	0	221	0	263	0	246	0	250	0
	Mizoram	98	1	98	1	95	1	93	1	86	1	86	2	90	1
	Nagaland	121	1	110	1	119	0	114	1	108	0	114	1	114	1
	Tripura	194	3	237	3	213	6	255	2	234	1	244	1	208	2

6. Energy Consumption in States (MUs)

Region	States	26-04-2020	27-04-2020	28-04-2020	29-04-2020	30-04-2020	01-05-2020	02-05-2020
	Punjab	87.5	81.5	89.6	96.5	103.4	109.0	109.0
	Haryana	87.9	86.6	93.4	102.4	108.4	114.4	112.5
	Rajasthan	164.0	165.4	180.1	188.8	190.9	198.4	206.6
	Delhi	57.8	51.2	58.4	63.0	66.1	69.6	68.3
NR	UP	235.1	222.1	249.0	276.4	287.7	268.6	287.1
	Uttarakhand	19.2	20.1	21.6	22.6	22.4	21.7	23.3
	НР	13.6	14.0	14.7	15.6	16.1	15.9	16.7
	J&K	41.8	40.8	41.5	41.8	41.2	41.4	38.3
	Chandigarh	2.7	2.6	2.6	2.8	3.0	3.1	3.2
	Chhattisgarh	67.7	64.1	67.5	68.2	70.9	73.0	74.7
	Gujarat	277.2	286.2	291.0	294.3	296.2	292.6	295.5
	MP	175.7	168.3	182.2	186.1	189.2	186.9	193.3
WR	Maharashtra	404.6	405.7	408.1	408.8	405.1	400.2	409.9
VVIX	Goa	8.7	9.7	9.3	10.0	10.1	9.1	9.7
	DD	2.8	3.1	3.3	3.4	3.5	2.8	3.3
	DNH	4.0	4.7	5.1	5.4	5.7	5.3	5.8
	Essar steel	1.8	2.1	1.6	1.5	1.6	2.4	3.7
	Andhra Pradesh	148.6	150.9	155.8	142.2	151.3	151.8	157.9
	Telangana	140.0	137.0	131.8	130.5	140.2	133.8	137.0
SR	Karnataka	196.3	201.7	206.8	184.0	189.7	189.7	187.9
31	Kerala	63.9	66.2	68.5	65.4	67.7	67.5	70.5
	Tamil Nadu	228.7	230.9	236.3	221.8	228.8	234.4	245.3
	Pondy	4.5	5.2	5.4	5.4	5.7	5.4	6.2
	Bihar	67.3	71.9	67.1	74.1	83.8	70.2	71.3
	DVC	28.8	30.4	30.1	30.8	32.2	32.2	34.4
ER	Jharkhand	20.4	20.4	20.3	21.4	22.5	21.8	22.0
	Odisha	59.5	63.0	66.1	65.5	67.5	67.4	70.2
	West Bengal	98.4	97.7	91.6	97.1	106.8	101.9	95.6
	Sikkim	1.1	1.4	1.3	1.3	1.3	1.0	1.3
	Arunachal Pradesh	1.4	2.0	1.5	1.5	1.4	1.5	1.7
	Assam	19.1	19.6	19.9	19.8	21.5	21.8	21.7
	Manipur	1.9	2.3	2.1	2.1	2.2	2.2	2.0
NER	Meghalaya	4.3	4.1	4.2	4.1	4.4	4.2	4.0
	Mizoram	1.5	1.6	1.4	1.4	1.4	1.4	1.4
	Nagaland	2.0	2.0	2.1	2.0	1.8	1.9	1.8
	Tripura	2.8	3.4	3.4	3.4	3.1	3.7	4.5
Α	LL INDIA TOTAL	2742.3	2739.7	2834.5	2861.3	2954.8	2928.1	2997.2

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (26 अप्रैल 2020 से 02 मई 2020 तक)

(11 (11) (47 1 (11) (20 (14) (14) (14) (14) (14)												
(आई० ई० जी० सी०	आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)											
7. अंतक्षेत्रीय विनिम	य [प्रथम क्षेत्र व	से द्वितीय क्षे	त्र को आयात	(+) / नियति	(-)]							
दिनांक	26-04-2020	27-04-2020	28-04-2020	29-04-2020	30-04-2020	01-05-2020	02-05-2020					
East to North	-49.7	-28.2	-57.4	-60.6	-65.9	-67.8	-63.4					
East to West	-1.6	13.9	8.1	14.2	7.6	5.7	10.1					
East to South	-103.3	-110.1	-112.7	-109.0	-106.7	-104.5	-110.5					
East to North-East	17.3	13.6	13.0	13.5	13.2	13.8	13.3					
North-East to North	11.6	11.6	11.5	11.6	11.5	11.4	11.5					
West to North	-60.6	-62.1	-73.6	-90.8	-88.6	-80.8	-90.1					
West to South	-83.7	-71.1	-78.2	-75.2	-82.7	-89.8	-103.0					

भूटान , नेपाल एवं बांग्लादेश के साथ अंतरराष्ट्रीय विद्युत विनिमय INTERNATIONAL EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH

साप्ताहिक रिपोर्ट (26 अप्रैल 2020 से 02 मई 2020 तक)

	भूटान вно	ΓΑΝ		नेपाल NEPAL		बांग्ल	ादेश BANGLA	DESH
दिनांक Date	Energy Exchange	Day Average (MW)	Energy Exchange	Day Peak (MW)	Day Average (MW)	Energy Exchange	Day Peak (MW)	Day Average (MW)
26-04-2020	8.0	335	-0.6	-138	-24	-9.3	-449	-386
27-04-2020	8.5	356	-0.5	-118	-22	-11.9	-975	-495
28-04-2020	14.2	590	-0.4	-106	-18	-12.4	-952	-517
29-04-2020	12.2	507	-0.6	-118	-25	-12.5	-969	-522
30-04-2020	15.1	631	-0.8	-137	-33	-12.5	-965	-523
01-05-2020	15.0	627	-0.3	-97	-14	-11.3	-863	-470
02-05-2020	18.4	766	-0.2	-121	-7	-13.1	-913	-546
कुल Total	91.5		-3.4			-83.0		

				8). Ma	jor Gı	rid Incidenc	es (Pr	ovisional)							
S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage	Time	Revival Date	Time	Outage Duration Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards			
1	NR	1) 400KV Bus 2 at Anpara(UP) 2) 210 MW Anpara TP5 - UNIT 2 3) 400 KV OFA B-Sultanpur (UP) Ckt-1 4) 400 KV Anpara-Obra_B (UP) Ckt-1 5) 400 KV Singrauli(NT)-Anpara(UP) (PG) Ckt-1 6) 210 MW Anpara TP5 - UNIT 1	UTTAR PRADESH	28-Apr-20	02:59	28-Apr-20	04:23	01:24	2.2 fault in the 400 KV Anpara - Obra – Sultanpur line and due to delay in the opening of breaker at 400 V Anpara, LBB protection operated. This led to the trapping of Bus Coupler, Bus Sectionaliser and 400 VM Bus-2 and all the elements connected to Bus Ba- Zinduding the Unit 1 and 2. A sper PMU, R-N fault with delayed dearnare is observed in the system. In antecedent conditions, Unit BL Sultri2 at Anpara generating 135MW 8.162MW respectively. 400 KV Singrauli (NT)-Anpara (UP) (PG) Ckt-1 carrying 400MW.	350	160	GD-1			
2	NR	1) 115 MW Salal HPS - UNIT 1 2) 115 MW Salal HPS - UNIT 1 3) 115 MW Salal HPS - UNIT 3 3) 115 MW Salal HPS - UNIT 3 4) 115 MW Salal HPS - UNIT 4 5) 115 MW Salal HPS - UNIT 6 5) 120 MW Salal	J&K	29-Apr-20	17:32	29-Apr-20	18:20	00:48	Complete outage of 220kV Salal(NHPC) occurred due to failure of one DC DB(DC Source) and changeover took 200ms time resulting into tripping of all six units and emanating and control of the state of t	600	0	GD-1			
3	WR	Tripping of 1,755 W Otheramlaygarh-Iharsuguda 1,2,384 2255 H V Otheramlaygarh-Ranchi 2 3,755 W Otheramlaygarh-Bilsour 18,3 4,755 W Otheramlaygarh-Bilsour 18,3 6,000 W Otheramlaygarh-Balco 12,2 7,200 MW Balco Lints 1,2,384 8,135 MW Balco CPP2 Units 1,28,3	PGCIL	27-Apr-20	00:51	27-Apr-20	03:49	02:58	At 76:/400 kV Dharamiyygarh s/s, external flash over of 8 phase CT of 76:/400 kV ICT 1 Main bay occured creating 8 phase fault and the main protection ie.,8us bar protection/ICT differential protection did not operate. As the main protection did not dearthe fault, all the connected 755 kV lines tripped on reverse protection/Zone 2 distance protection operation from remote end. 400 kV Dharamiyygarh-3alo 182 thought from State ord on DF protection operation. Back oils indiring was unscuessful subject from State ord on DF protection operation. Back oils indiring was unscuessful generation of 1200 MW (288 MW injection into grid and balance captive gen. catering to smelter load) tripped.	288	900 MW (Balco smelter load)	GD-1			
4	ER	220 kV TTPS – Patratu TPS(PTPS) S/C Tenughat Unit 1 and 2	JUSNL	28-Apr-20	06:29	28-Apr-20	09:09	02:40	At 06.12 hrs auxiliary transformer of unit 1 at TTPS at tripped due to mail operation of differential relay resulted tripping of Tenughat Unit 1. At 06.29 hrs, all feeders connected to Bus 2 including Tenughat Unit 82, 2004 TTPS - Patratup (TPTS) S/C, Station Transformer 2 at 1175 and 220 V Bus coupler beaker at TTPS ripped due to operation LBS operation at TTPS. However, Tenughat station supply remains intact through 220 kV TTPS - Bilharshariff S/C which was connected to 220 kV Bus-1 at TTPS.	300	50	GI-1			
5	ER	220 kV Santaldih TPS (STPS) – Chandil S/C 220 kV Ranchi – Chandil S/C 220 kV Ramchandrapur – Chandil S/C	JUSNL	30-Apr-20	19:37	30-Apr-20	21:18	01:41	At 19.37 hrs, all 220 kV lines and 220/132 kV ATRs tripped at Chandil due to burst 100 MWA 220/132 kV ICT - 3 at Chandil and total power failure occurred at Chandil and its nearby areas. Due to testing of other ICTs, initially power was extended to affected area from Manique [DVC] by 21:18 hrs.	0	145	GD-1			
6	NER	132 kV Balipara-Tenga line	NEEPCO & DoP, Arunachal Pradesh	27-Apr-20	18:00	27-Apr-20	18:22	00:22	Khupi ares of Arunachal Pradesh Power System and Diskhi HEP were connected with the rest of NRR Grid through 132 N Balipara-Terga Jine. At 18:00 Hrs on 27:04.2002, 132 V N Balipara-Terga Jine tripped. Due to tripping of this dement, Khupi ares of Arunachal Pradesh Power System and Diskhi HEP were separated from test of NRR Grid and subsequently collapsed due to load generation mismatch in this second.	7.5	15	GD1			
7	NER	132 kV Ranganadi - Itanagar (Chimpu) line and 132 kV Pare - Itanagar (Chimpu) line	NEEPCO & DoP, Arunachal Pradesh	27-Apr-20	18:06	27-Apr-20	18:40	00:34	Capital area (Itanagar area) of Arunachal Pradesh Power System was connected with the rest of NER Grid through 122 VK Banganadi - Itanagar (Chimpu) line and 132 KV Pare- tranagar (Chimpu) line (142 VK Leichi - Itanagar (Chimpu) line kept open due to CT restriction at Leibi). At 1826 Risk on 27 July 2002, 132 VK Banganadi - Itanagar (Chimpu) line and 132 VK Pare- Tranagar (Chimpu) line tripped. Due to tripping of these elements, Capital area (Itanagar area) of Aurunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	GD 1			
8	NER	132 kV Dharmanagar - Dullavcherra Line & 132 kV Dharmanagar - P K Bari Line	AEGCL & TSECL	28-Apr-20	17:27	28-Apr-20	17:52	00:25	Dharmangaps area of Tripura Power System was connected with the rest of NER Grid through 1.21 VD Dharmangaps - Dullacherra line 8.121 VD Dharmangaps - PK Barl Line 1.41.27 VH too n.2000. 1.21 VD Dharmangaps - Dullacher Line 8.121 VL Dharmangaps - PK Barl Line 1.400 VD Dharmangaps - PK Barl Line 1.400 VD Dharmangaps - PK Barl Line tripped. Due to tripping of these elements, Dharmangap area of Tripura Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	10	GD 1			
9	NER	132 kV Ranganadi-Ziro line.	PGCIL	30-Apr-20	21:16	30-Apr-20	21:29	00:13	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 3.23 kV Ranganadi - Ziro line. At 21.16 kis on 20.04.2002, 13.12 v Ranganadi - Ziro line tripped. Due to tripping of this element. Ziro are Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	27	GD 1			