National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 13th May 2020

To,

1. कार्यकारी निदेशक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी 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. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093
   Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग - 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009
   Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 12.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-मई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 12th May 2020, is available at the NLDC website.

धन्यवाद,

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

Report for previous day **Date of Reporting: 13-May-2020**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	40666	40993	36456	18507	2494	139116
Peak Shortage (MW)	1262	0	0	0	96	1358
Energy Met (MU)	876	1034	911	382	45	3248
Hydro Gen (MU)	251	58	81	67	5	463
Wind Gen (MU)	20	39	23	-	-	82
Solar Gen (MU)*	36.65	26.87	94.53	4.87	0.05	163
Energy Shortage (MU)	10.7	0.0	0.0	0.0	1.1	11.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43606	45758	41016	18564	2516	145600
Time Of Maximum Demand Met (From NLDC SCADA)	20:14	15:17	09:55	21:59	19:31	22:28

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.038	0.00	0.37	6.46	6.83	75.42	17.75

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	5608	0	114.1	84.5	0.4	231	0.0
	Haryana	5728	300	115.6	111.5	2.1	336	0.7
	Rajasthan	9744	0	203.2	75.0	1.8	486	0.0
	Delhi	3747	0	71.8	55.6	-1.0	150	0.0
	UP	15474	680	278.0	156.7	2.7	722	0.1
	Uttarakhand	1279	0	26.8	10.5	0.5	125	0.0
	HP	1098	0	21.0	0.3	1.1	159	0.0
	J&K(UT) & Ladakh(UT)	2134	534	42.3	24.6	-0.6	181	10.0
	Chandigarh	153	0	3.3	3.5	-0.2	3	0.0
WR	Chhattisgarh	3230	0	75.4	19.2	0.2	220	0.0
	Gujarat	14088	0	305.5	106.5	4.4	923	0.0
	MP	8937	0	192.6	109.8	-2.2	504	0.0
	Maharashtra	19518	0	425.7	154.0	2.2	615	0.0
	Goa	469	0	10.1	9.7	-0.2	97	0.0
	DD	192	0	4.2	4.1	0.1	57	0.0
	DNH	348	0	8.0	8.0	-0.0	39	0.0
	AMNSIL	558	0	12.5	3.3	0.5	187	0.0
SR	Andhra Pradesh	8890	0	178.7	109.3	-1.7	274	0.0
	Telangana	6731	0	147.5	55.1	-0.8	527	0.0
	Karnataka	10277	0	208.4	62.8	1.3	612	0.0
	Kerala	3443	0	72.2	49.5	0.2	145	0.0
	Tamil Nadu	12728	0	296.7	176.0	-1.4	467	0.0
	Puducherry	331	0	7.0	7.2	-0.2	41	0.0
ER	Bihar	5132	0	91.4	84.8	0.2	385	0.0
	DVC	2263	0	48.0	-27.9	0.1	351	0.0
	Jharkhand	1267	0	22.6	17.3	-0.8	167	0.0
	Odisha	3871	0	80.4	2.6	0.6	208	0.0
	West Bengal	6713	0	138.7	48.5	4.0	559	0.0
	Sikkim	93	0	1.3	1.4	-0.1	23	0.0
NER	Arunachal Pradesh	103	1	1.9	1.7	0.1	24	0.0
	Assam	1507	75	27.5	22.3	0.5	114	0.9
	Manipur	173	2	2.5	2.2	0.3	17	0.0
	Meghalaya	292	3	4.9	3.1	-0.2	30	0.1
	Mizoram	89	1	1.6	1.4	0.1	37	0.0
	Nagaland	141	3	2.1	2.2	-0.2	24	0.0
	Tripura	287	9	4.5	5.4	-0.5	44	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	13.5	-3.1	-22.4
Day Peak (MW)	878.5	-250.0	-1118.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	198.3	-272.7	162.6	-91.0	2.7	-0.1
Actual(MU)	195.5	-286.5	160.1	-84.5	5.0	-10.5
O/D/U/D(MU)	-2.8	-13.8	-2.6	6.5	2.4	-10.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6895	16143	8692	2356	399	34484
State Sector	20235	22305	11158	5812	11	59521
Total	27130	38447	19850	8168	410	94005

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	282	1061	446	436	11	2236
Lignite	25	15	37	0	0	76
Hydro	251	58	81	67	5	463
Nuclear	24	33	41	0	0	98
Gas, Naptha & Diesel	30	67	20	0	31	148
RES (Wind, Solar, Biomass & Others)	82	81	135	5	0	303
Total	694	1315	761	508	47	3324
Share of RES in total generation (%)	11.82	6.14	17.77	0.97	0.11	9.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	51.48	13.08	33.86	14.08	10.89	25.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.076

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 13-May-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	D/C	0	580	0.0	7.8	-7.8
4	765 kV	SASARAM-FATEHPUR	S/C	206	303	0.0	1.6	-1.6
5	765 kV	GAYA-BALIA	S/C	0	451	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	S/C	0	231	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	S/C	16	146	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	651	0.0	7.7	-7.7
9	400 kV	PATNA-BALIA	Q/C	0	569	0.0	7.5	-7.5
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	274	0.0	3.7	-3.7
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	241	0.0	3.9	-3.9
12	400 kV	BIHARSHARIFF-VARANASI	D/C	202	199	0.0	0.2	-0.2
13	220 kV	PUSAULI-SAHUPURI	S/C	0	156	0.0	2.4	-2.4
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	0.4	54.7	-54.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1480	0	19.2	0.0	19.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1318	23	16.4	0.0	16.4
3	765 kV	JHARSUGUDA-DURG	D/C	130	220	0.0	1.0	-1.0
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	203	95	1.7	0.0	1.7
5	400 kV	RANCHI-SIPAT	D/C	466	13	5.6	0.0	5.6
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	94	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	D/C	186	0	3.3	0.0	3.3
					ER-WR	46.1	2.1	44.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	380	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2360	0.0	48.7	-48.7
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3075	0.0	63.9	-63.9
4	400 kV	TALCHER-I/C	D/C	0	524	0.0	3.6	-3.6
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	121.2	-121.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	203	326	0.0	1.3	-1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	261	450	0.0	2.1	-2.1
3	220 kV	ALIPURDUAR-SALAKATI	D/C	47	90	0.0	0.3	-0.3
					ER-NER	0.0	3.7	-3.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	463	404	4.8	3.4	1.4
					NER-NR	4.8	3.4	1.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	301	0.0	21.1	-21.1
2	HVDC	V'CHAL B/B	D/C	49	0	1.3	0.0	1.3
3	HVDC	APL -MHG	D/C	0	1548	0.0	34.8	-34.8
4	765 kV	GWALIOR-AGRA	D/C	0	2637	0.0	47.7	-47.7
5	765 kV	PHAGI-GWALIOR	D/C	0	1455	0.0	29.4	-29.4
6	765 kV	JABALPUR-ORAI	D/C	0	939	0.0	31.7	-31.7
7	765 kV	GWALIOR-ORAI	S/C	580	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	S/C	0	1553	0.0	32.8	-32.8
9	765 kV	CHITORGARH-BANASKANTHA	D/C	539	731	3.7	2.9	0.8
10	400 kV	ZERDA-KANKROLI	S/C	256	33	3.3	0.0	3.3
11	400 kV	ZERDA -BHINMAL	S/C	445	86	4.4	0.0	4.4
12	400 kV	V'CHAL -RIHAND	S/C	978	0	22.0	0.0	22.0
13	400 kV	RAPP-SHUJALPUR	D/C	276	230	1.8	0.9	0.9
14	220 kV	BHANPURA-RANPUR	S/C	64	29	0.3	0.5	-0.2
15	220 kV	BHANPURA-MORAK	S/C	19	37	0.0	0.1	-0.1
16	220 kV	MEHGAON-AURAIYA	S/C	77	9	0.2	0.0	0.2
17	220 kV	MALANPUR-AURAIYA	S/C	47	30	0.6	0.0	0.6
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	48.9	201.9	-153.0

Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	23.4	-23.4
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	160	1862	0.1	24.2	-24.1
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2191	0.0	39.2	-39.2
5	400 kV	KOLHAPUR-KUDGI	D/C	435	301	1.7	2.0	-0.3
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	76	0.0	1.3	-1.3
8	220 kV	XELDEM-AMBEWADI	S/C	1	95	1.6	0.0	1.6
					WR-SR	3.4	90.1	-86.7

INTERNATIONAL EXCHANGES						
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU (2 * 63)	0	0	0	0.0
	ER	CHUKA (4 * 84) BIRPARA RECEIPT	55	43	73	1.8
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	208	208	198	4.7
	ER	TALA (6 * 170) BINAGURI RECEIPT	460	309	269	6.5
	NER	132KV-SALAKATI - GELEPHU	11	0	-5	-0.1
	NER	132KV-RANGIA - DEOTHANG	0	0	17	0.4
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-130	-2	-112	-2.7
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-120	-2	-18	-0.4
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-942	-392	-780	-18.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	88	0	-77	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	88	0	-77	-1.8