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: 09th 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 08.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th 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: 09-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)	41155	39285	35805	17044	2344	135633
Peak Shortage (MW)	1266	0	0	0	82	1348
Energy Met (MU)	915	1022	886	331	38	3193
Hydro Gen (MU)	236	42	87	74	5	445
Wind Gen (MU)	14	64	22	-	-	100
Solar Gen (MU)*	45.03	28.80	83.06	4.83	0.06	162
Energy Shortage (MU)	11.6	0.0	0.0	0.0	2.0	13.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43844	45378	41208	17018	2346	143333
Time Of Maximum Demand Met (From NLDC SCADA)	21:21	15:01	14:26	21:30	19:25	23:01

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	0.029	0.00	0.53	5.09	5.62	84.92	9.46

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	5645	0	121.1	94.5	-0.9	90	0.0
	Haryana	6078	0	120.2	105.9	0.5	251	0.6
	Rajasthan	9694	171	208.7	78.8	0.7	411	0.0
	Delhi	3745	0	71.8	59.7	-1.0	39	0.0
	UP	16638	0	300.3	139.7	0.4	1099	0.6
	Uttarakhand	1268	0	26.5	9.8	0.8	119	0.0
	HP	1016	0	19.2	0.3	1.0	182	0.0
	J&K(UT) & Ladakh(UT)	2346	586	44.1	24.4	1.9	463	10.4
	Chandigarh	164	0	3.3	3.3	0.1	12	0.0
WR	Chhattisgarh	3135	0	68.2	15.5	-1.2	259	0.0
	Gujarat	13969	0	304.0	88.3	3.6	574	0.0
	MP	8928	0	197.2	106.8	-2.8	313	0.0
	Maharashtra	19514	0	428.6	185.7	-2.5	286	0.0
	Goa	481	0	10.6	10.3	-0.2	35	0.0
	DD	185	0	3.9	3.8	0.1	21	0.0
	DNH	349	0	7.9	7.8	0.1	20	0.0
	AMNSIL	426	0	1.1	1.0	0.1	126	0.0
SR	Andhra Pradesh	8884	0	174.8	106.1	0.4	527	0.0
	Telangana	6864	0	145.4	69.8	0.8	576	0.0
	Karnataka	10162	0	199.3	55.8	-0.8	585	0.0
	Kerala	3514	0	71.3	48.2	0.3	187	0.0
	Tamil Nadu	12834	0	288.1	175.4	0.9	689	0.0
	Puducherry	354	0	7.4	7.5	-0.2	51	0.0
ER	Bihar	4525	0	76.1	72.9	-1.1	205	0.0
	DVC	2227	0	44.6	-21.9	1.1	250	0.0
	Jharkhand	1296	0	22.9	15.4	-1.3	130	0.0
	Odisha	3613	0	73.6	-5.6	-0.4	195	0.0
	West Bengal	6100	0	112.9	37.5	-0.4	289	0.0
	Sikkim	105	0	1.3	1.5	-0.3	18	0.0
NER	Arunachal Pradesh	107	0	1.7	1.1	0.4	15	0.0
	Assam	1397	63	23.0	19.1	-0.3	102	1.8
	Manipur	186	1	2.2	2.3	-0.2	24	0.0
	Meghalaya	293	0	4.8	2.8	-0.1	53	0.1
	Mizoram	93	1	1.5	1.4	0.0	15	0.0
	Nagaland	114	2	2.1	2.0	-0.1	18	0.0
	Tripura	268	3	3.3	3.1	-0.5	35	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	17.2	-0.3	-20.1
Day Peak (MW)	1085.3	-157.3	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	197.5	-239.8	157.5	-116.9	2.0	0.3
Actual(MU)	198.9	-252.6	178.7	-129.5	0.7	-3.9
O/D/U/D(MU)	1.4	-12.8	21.1	-12.6	-1.3	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6875	17243	9112	1826	399	35454
State Sector	19430	23032	12978	7772	11	63223
Total	26305	40274	22090	9598	410	98677

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	339	1013	401	417	10	2179
Lignite	22	16	31	0	0	68
Hydro	236	42	87	74	5	445
Nuclear	27	36	51	0	0	115
Gas, Naptha & Diesel	27	74	21	0	27	148
RES (Wind, Solar, Biomass & Others)	83	110	133	5	0	331
Total	734	1290	723	496	42	3285
Share of RES in total generation (%)	11.34	8.51	18.37	0.97	0.14	10.06
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	47.26	14.56	37.45	15.97	12.48	27.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.092

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: 09-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	6.2	-6.2
3	765 kV	GAYA-VARANASI	D/C	0	738	0.0	10.5	-10.5
4	765 kV	SASARAM-FATEHPUR	S/C	8	323	0.0	4.1	-4.1
5	765 kV	GAYA-BALIA	S/C	0	455	0.0	7.4	-7.4
6	400 kV	PUSAULI-VARANASI	S/C	0	199	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	141	0.0	2.2	-2.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	830	0.0	14.0	-14.0
9	400 kV	PATNA-BALIA	Q/C	0	787	0.0	11.5	-11.5
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	370	0.0	6.5	-6.5
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	261	0.0	3.7	-3.7
12	400 kV	BIHARSHARIFF-VARANASI	D/C	5	301	0.0	4.0	-4.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	177	0.0	3.2	-3.2
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	77.1	-76.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	926	0	13.7	0.0	13.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	394	304	2.3	0.0	2.3
3	765 kV	JHARSUGUDA-DURG	D/C	0	546	0.0	7.7	-7.7
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	91	190	0.0	1.8	-1.8
5	400 kV	RANCHI-SIPAT	D/C	236	150	1.4	0.0	1.4
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	117	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	D/C	144	0	2.1	0.0	2.1
					ER-WR	19.5	11.4	8.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	6.2	-6.2
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1984	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3128	0.0	68.3	-68.3
4	400 kV	TALCHER-I/C	D/C	0	203	0.0	3.1	-3.1
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	122.5	-122.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	333	0	5.1	0.0	5.1
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	405	0	5.5	0.0	5.5
3	220 kV	ALIPURDUAR-SALAKATI	D/C	71	0	0.9	0.0	0.9
					ER-NER	11.4	0.0	11.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	465	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	12.2	-12.2
2	HVDC	V'CHAL B/B	D/C	0	52	0.0	1.4	-1.4
3	HVDC	APL -MHG	D/C	0	1125	0.0	27.9	-27.9
4	765 kV	GWALIOR-AGRA	D/C	0	2317	0.0	44.3	-44.3
5	765 kV	PHAGI-GWALIOR	D/C	0	1556	0.0	32.1	-32.1
6	765 kV	JABALPUR-ORAI	D/C	0	784	0.0	29.2	-29.2
7	765 kV	GWALIOR-ORAI	S/C	591	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	S/C	0	1389	0.0	29.9	-29.9
9	765 kV	CHITORGARH-BANASKANTHA	D/C	209	542	0.0	3.7	-3.7
10	400 kV	ZERDA-KANKROLI	S/C	146	0	2.2	0.0	2.2
11	400 kV	ZERDA -BHINMAL	S/C	320	26	2.0	0.0	2.0
12	400 kV	V'CHAL -RIHAND	S/C	961	0	22.1	0.0	22.1
13	400 kV	RAPP-SHUJALPUR	D/C	322	38	1.5	0.0	1.5
14	220 kV	BHANPURA-RANPUR	S/C	56	18	0.9	1.1	-0.2
15	220 kV	BHANPURA-MORAK	S/C	4	81	0.0	0.5	-0.5
16	220 kV	MEHGAON-AURAIYA	S/C	115	0	0.0	0.1	-0.1
17	220 kV	MALANPUR-AURAIYA	S/C	82	8	0.5	0.0	0.5
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	40.9	182.2	-141.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	985	0.0	23.3	-23.3
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2270	0.0	34.6	-34.6
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2483	0.0	46.4	-46.4
5	400 kV	KOLHAPUR-KUDGI	D/C	341	219	1.5	0.9	0.6
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	S/C	0	93	1.9	0.0	1.9
					WR-SR	3.5	105.3	-101.8

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	120	114	96	2.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	457	450	346	8.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	353	345	200	4.8
	NER	132KV-SALAKATI - GELEPHU	6	0	13	0.3
	NER	132KV-RANGIA - DEOTHANG	0	0	24	0.6
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-11	-1	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-146	0	-10	-0.2
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-952	-346	-728	-17.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	63	0	-54	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	63	0	-54	-1.3