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 Jun 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 08.06.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-जून-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 Jun 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-Jun-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)	47690	39734	36975	20438	2715	147552
Peak Shortage (MW)	1077	0	0	0	26	1103
Energy Met (MU)	1095	957	906	437	47	3442
Hydro Gen (MU)	313	57	78	118	21	587
Wind Gen (MU)	19	61	154	-	-	235
Solar Gen (MU)*	41.51	25.13	79.38	4.83	0.01	151
Energy Shortage (MU)	12.0	0.0	0.0	0.0	0.0	12.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52540	41714	41357	20962	2717	153130
Time Of Maximum Demand Met (From NLDC SCADA)	22:18	14:51	15:49	23:04	19:22	22:13

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	0.046	0.00	0.50	12.57	13.07	77.69	9.25

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	7230	0	158.9	116.2	0.1	265	0.0
	Haryana	6710	550	134.9	123.9	2.4	334	1.5
	Rajasthan	10396	0	221.7	81.2	1.7	496	0.0
	Delhi	4583	0	88.0	76.9	-1.2	194	0.0
	UP	19847	170	384.5	204.7	-1.3	403	1.1
	Uttarakhand	1692	0	37.1	16.9	1.2	137	0.0
	HP	1273	0	25.1	0.2	-0.7	181	0.0
	J&K(UT) & Ladakh(UT)	2029	507	39.9	17.9	-1.1	169	9.5
	Chandigarh	229	0	4.5	4.3	0.1	27	0.0
WR	Chhattisgarh	3470	0	78.8	26.6	-3.0	166	0.0
	Gujarat	12810	0	271.0	94.1	2.6	707	0.0
	MP	8160	0	179.3	94.1	-1.7	439	0.0
	Maharashtra	17658	0	385.6	132.6	1.3	476	0.0
	Goa	424	0	8.5	7.9	0.1	76	0.0
	DD	241	0	5.2	4.8	0.4	37	0.0
	DNH	493	0	10.9	10.7	0.3	43	0.0
	AMNSIL	782	0	17.5	1.4	0.4	221	0.0
SR	Andhra Pradesh	9096	0	184.3	55.9	1.8	571	0.0
	Telangana	7637	0	160.2	84.9	0.8	557	0.0
	Karnataka	9700	0	187.7	60.4	0.9	892	0.0
	Kerala	3238	0	64.1	44.8	0.1	151	0.0
	Tamil Nadu	13707	0	302.4	129.7	1.1	670	0.0
	Puducherry	379	0	7.8	8.0	-0.2	44	0.0
ER	Bihar	5434	0	108.3	103.0	-0.3	245	0.0
	DVC	2930	0	61.9	-40.7	-0.2	255	0.0
	Jharkhand	1346	0	27.3	19.9	-1.3	165	0.0
	Odisha	4056	0	82.5	6.4	-0.7	285	0.0
	West Bengal	7738	0	155.4	51.2	2.7	695	0.0
	Sikkim	94	0	1.3	1.4	-0.1	15	0.0
NER	Arunachal Pradesh	96	2	1.8	1.7	0.1	30	0.0
	Assam	1709	0	28.6	24.7	-0.2	197	0.0
	Manipur	188	1	2.5	2.4	0.1	37	0.0
	Meghalaya	310	0	5.4	0.7	-0.3	45	0.0
	Mizoram	95	1	1.8	1.3	0.2	21	0.0
	Nagaland	128	2	2.3	2.2	-0.1	73	0.0
	Tripura	275	14	4.5	5.0	-0.4	49	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.6	-1.4	-25.2
Day Peak (MW)	1655.9	-239.9	-1122.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	259.7	-258.2	116.3	-115.3	-2.5	0.0
Actual(MU)	254.1	-264.4	123.9	-112.5	-6.3	-5.2
O/D/U/D(MU)	-5.7	-6.1	7.5	2.8	-3.8	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4967	19523	11822	2220	344	38875
State Sector	16965	24094	14608	5112	11	60790
Total	21932	43617	26430	7332	355	99665

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	378	956	330	463	11	2138
Lignite	27	12	41	0	0	81
Hydro	313	57	78	118	21	587
Nuclear	28	36	46	0	0	111
Gas, Naptha & Diesel	30	71	16	0	27	145
RES (Wind, Solar, Biomass & Others)	82	98	277	5	0	461
Total	860	1230	788	586	59	3523
Share of RES in total generation (%)	9.56	7.94	35.09	0.82	0.02	13.09
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	49.26	15.56	50.78	20.94	35.82	32.89

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.085

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-Jun-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	501	0.0	12.2	-12.2
2	HVDC	PUSAULI B/B	S/C	0	398	0.0	10.0	-10.0
3	765 kV	GAYA-VARANASI	D/C	0	453	0.0	5.5	-5.5
4	765 kV	SASARAM-FATEHPUR	S/C	211	58	2.2	0.0	2.2
5	765 kV	GAYA-BALIA	S/C	0	427	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	S/C	0	304	0.0	6.6	-6.6
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	157	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	768	0.0	13.0	-13.0
9	400 kV	PATNA-BALIA	Q/C	0	840	0.0	13.7	-13.7
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	315	0.0	4.7	-4.7
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	325	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	D/C	152	117	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	161	0.0	3.0	-3.0
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	0.5	0.0	0.5
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	3.3	84.9	-81.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	885	0	11.5	0.0	11.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1067	0	15.6	0.0	15.6
3	765 kV	JHARSUGUDA-DURG	D/C	29	170	0.0	1.1	-1.1
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	139	110	0.3	0.0	0.3
5	400 kV	RANCHI-SIPAT	D/C	371	0	6.5	0.0	6.5
6	220 kV	BUDHIPADAR-RAIGARH	S/C	53	72	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	D/C	213	0	3.6	0.0	3.6
					ER-WR	37.5	1.6	35.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	385	0.0	7.9	-7.9
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1653	0.0	45.2	-45.2
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2711	0.0	50.4	-50.4
4	400 kV	TALCHER-I/C	D/C	380	988	0.0	7.6	-7.6
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	103.5	-103.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	8	348	0.0	2.9	-2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	11	513	0.0	4.9	-4.9
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	114	0.0	1.2	-1.2
					ER-NER	0.0	9.0	-9.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1502	0.0	40.0	-40.0
2	HVDC	V'CHAL B/B	D/C	298	0	7.3	0.0	7.3
3	HVDC	APL -MHG	D/C	0	1455	0.0	25.1	-25.1
4	765 kV	GWALIOR-AGRA	D/C	0	2212	0.0	39.6	-39.6
5	765 kV	PHAGI-GWALIOR	D/C	0	1434	0.0	25.3	-25.3
6	765 kV	JABALPUR-ORAI	D/C	0	956	0.0	35.1	-35.1
7	765 kV	GWALIOR-ORAI	S/C	451	0	7.5	0.0	7.5
8	765 kV	SATNA-ORAI	S/C	0	1351	0.0	28.0	-28.0
9	765 kV	CHITORGARH-BANASKANTHA	D/C	149	737	0.0	9.3	-9.3
10	400 kV	ZERDA-KANKROLI	S/C	104	102	0.1	0.0	0.1
11	400 kV	ZERDA -BHINMAL	S/C	210	130	1.0	0.0	1.0
12	400 kV	V'CHAL -RIHAND	S/C	968	0	21.7	0.0	21.7
13	400 kV	RAPP-SHUJALPUR	D/C	0	426	0.0	4.9	-4.9
14	220 kV	BHANPURA-RANPUR	S/C	0	88	2.0	1.9	0.1
15	220 kV	BHANPURA-MORAK	S/C	0	126	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	S/C	168	0	0.0	0.0	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	0.0	0.0	0.0
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0
					WR-NR	39.6	209.3	-169.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	820	0.0	18.1	-18.1
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0
4	765 kV	SOLAPUR-RAICHUR	D/C	651	1714	0.0	16.1	-16.1
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2183	0.0	34.2	-34.2
6	400 kV	KOLHAPUR-KUDGI	D/C	674	0	8.5	0.0	8.5
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	S/C	0	96	1.8	0.0	1.8
					WR-SR	10.3	68.3	-58.0

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	194	178	171	4.1
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	585	582	575	13.8
	ER	TALA (6 * 170) BINAGURI RECEIPT	721	672	713	17.1
	NER	132KV-SALAKATI - GELEPHU	0	0	19	0.5
	NER	132KV-RANGIA - DEOTHANG	0	0	56	1.3
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-20	0	-2	-0.1
	ER	132KV-BIHAR - NEPAL	-104	-4	-40	-0.9
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-116	-4	-16	-0.4
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-960	-761	-918	-22.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-67	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-66	-1.6