



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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 10th 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., डोंगतिह, 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 09.06.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 09-जून-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध 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 09th 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: 10-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)	52433	40472	37011	20438	2741	153095
Peak Shortage (MW)	498	0	0	0	101	599
Energy Met (MU)	1188	997	931	452	51	3618
Hydro Gen (MU)	337	68	81	118	19	623
Wind Gen (MU)	22	54	159	-	-	236
Solar Gen (MU)*	42.47	25.70	78.54	4.77	0.03	152
Energy Shortage (MU)	9.3	0.0	0.0	0.0	0.6	9.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56137	44241	44431	21650	2755	158433
Time Of Maximum Demand Met (From NLDC SCADA)	22:08	14:56	16:29	23:35	19:41	22:18

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	0.058	0.46	2.72	10.72	13.90	77.65	8.45

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	8069	0	178.4	130.0	-0.9	316	0.0
	Haryana	7154	353	151.9	134.3	0.8	543	0.2
	Rajasthan	11006	0	237.0	79.7	3.0	604	0.0
	Delhi	5095	0	97.5	86.8	-1.7	158	0.0
	UP	21075	0	415.2	208.9	-0.3	570	0.0
	Uttarakhand	1785	0	39.1	19.0	0.7	216	0.0
	HP	1297	0	26.3	0.0	-1.2	65	0.0
	J&K(UT) & Ladakh(UT)	2105	526	38.0	15.9	-0.9	27	9.1
	Chandigarh	262	0	5.0	5.1	0.0	48	0.0
WR	Chhattisgarh	3493	0	80.5	28.8	-1.7	508	0.0
	Gujarat	13087	0	279.5	61.4	1.8	559	0.0
	MP	8291	0	187.0	97.2	-0.9	724	0.0
	Maharashtra	18790	0	405.9	136.2	3.6	1310	0.0
	Goa	452	0	9.4	8.7	0.2	57	0.0
	DD	243	0	5.3	4.9	0.4	35	0.0
	DNH	523	0	11.5	11.2	0.3	50	0.0
	AMNSIL	835	0	17.7	1.4	0.3	248	0.0
	Andhra Pradesh	9237	0	178.8	53.5	0.4	509	0.0
SR	Telangana	8081	0	165.6	89.4	1.4	638	0.0
	Karnataka	10506	0	196.2	71.8	0.5	879	0.0
	Kerala	3299	0	67.9	49.8	-0.1	182	0.0
	Tamil Nadu	13722	0	314.5	129.9	-1.5	489	0.0
	Puducherry	374	0	7.9	8.1	-0.2	39	0.0
ER	Bihar	5703	0	110.9	103.6	1.0	265	0.0
	DVC	3031	0	61.7	-44.3	-3.2	255	0.0
	Jharkhand	1396	0	27.7	20.4	-1.5	170	0.0
	Odisha	3993	0	82.9	4.2	-0.8	345	0.0
	West Bengal	8183	0	167.1	53.0	1.1	495	0.0
	Sikkim	89	0	1.3	1.4	-0.1	10	0.0
NER	Arunachal Pradesh	102	1	1.7	1.6	0.2	45	0.0
	Assam	1754	57	32.2	27.1	0.3	161	0.6
	Manipur	192	0	2.4	2.4	0.1	28	0.0
	Meghalaya	313	0	5.4	0.0	0.0	78	0.0
	Mizoram	93	0	1.7	1.2	0.3	16	0.0
	Nagaland	123	1	2.2	2.3	-0.2	12	0.0
	Tripura	289	8	4.9	5.5	0.3	89	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	37.6	-1.5	-25.3
Day Peak (MW)	1606.7	-23.9	-1122.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	270.0	-265.2	123.2	-127.9	-0.2	0.0
Actual(MU)	268.7	-263.2	124.3	-133.7	-0.4	-4.2
OD/UD(MU)	-1.3	2.0	1.2	-5.8	-0.3	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4425	18123	12322	2220	407	37497
State Sector	14135	23305	14398	4482	11	56331
Total	18560	41428	26720	6702	418	93828

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	428	980	350	494	11	2262
Lignite	28	11	41	0	0	80
Hydro	337	68	81	118	19	623
Nuclear	28	36	47	0	0	112
Gas, Naptha & Diesel	35	85	16	0	27	164
RES (Wind, Solar, Biomass & Others)	83	91	279	5	0	458
Total	939	1271	815	616	57	3698
Share of RES in total generation (%)	8.83	7.17	34.28	0.79	0.05	12.39
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	47.69	15.35	50.05	19.91	33.66	32.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.068
Based on State Max Demands	1.099

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: 10-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	1001	0.0	12.2	-12.2
2	HVDC	PUSAULI B/B	S/C	0	397	0.0	9.5	-9.5
3	765 kV	GAYA-VARANASI	D/C	0	768	0.0	7.3	-7.3
4	765 kV	SASARAM-FATEHPUR	S/C	211	126	0.5	0.0	0.5
5	765 kV	GAYA-BALIA	S/C	0	446	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	S/C	0	295	0.0	6.2	-6.2
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	171	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	1186	0.0	13.2	-13.2
9	400 kV	PATNA-BALIA	O/C	0	1592	0.0	15.7	-15.7
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	460	0.0	5.2	-5.2
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	643	0.0	5.9	-5.9
12	400 kV	BIHARSHARIFF-VARANASI	D/C	142	149	0.0	0.6	-0.6
13	220 kV	PUSAULI-SAHUPURI	S/C	30	180	0.0	2.6	-2.6
14	132 kV	SONE NAGAR-BIHAND	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-CHANDALI	S/C	0	0	0.0	0.0	0.0
ER-NR						0.9	89.7	-88.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	915	0	10.5	0.0	10.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1123	0	15.1	0.0	15.1
3	765 kV	JHARSUGUDA-DURG	D/C	35	257	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	62	228	0.0	1.6	-1.6
5	400 kV	RANCHI-SIPAT	D/C	446	0	4.3	0.0	4.3
6	220 kV	BUDHIPADAR-RAIGARH	S/C	11	57	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	D/C	336	0	2.9	0.0	2.9
ER-WR						32.8	4.4	28.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZI WAKA B/B	D/C	0	760	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2500	0.0	43.5	-43.5
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	4179	0.0	47.8	-47.8
4	400 kV	TALCHER-I/C	D/C	0	625	0.0	10.0	-10.0
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	100.0	-100.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	499	0.0	5.3	-5.3
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	458	0.0	6.7	-6.7
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	166	0.0	2.0	-2.0
ER-NER						0.0	13.9	-13.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2261	0.0	23.7	-23.7
2	HVDC	V'CHAL B/B	D/C	298	0	7.3	0.0	7.3
3	HVDC	APL -MHG	D/C	0	1916	0.0	43.1	-43.1
4	765 kV	GWALIOR-AGRA	D/C	0	2675	0.0	47.5	-47.5
5	765 kV	PHAGI-GWALIOR	D/C	0	1252	0.0	24.0	-24.0
6	765 kV	JABALPUR-ORAI	D/C	0	1020	0.0	37.6	-37.6
7	765 kV	GWALIOR-ORAI	S/C	462	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	S/C	0	1423	0.0	29.7	-29.7
9	765 kV	CHITORGARH-BANASKANTHA	D/C	231	643	0.0	4.9	-4.9
10	400 kV	ZERDA-KANKROLI	S/C	99	70	0.6	0.0	0.6
11	400 kV	ZERDA-BHINMAL	S/C	186	97	1.9	0.0	1.9
12	400 kV	V'CHAL -RIHAND	S/C	973	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUALPUR	D/C	0	401	0.0	2.7	-2.7
14	220 kV	BHANPURA-RANPUR	S/C	0	80	0.0	3.7	-3.7
15	220 kV	BHANPURA-MORAK	S/C	0	121	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	S/C	163	0	0.0	0.0	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	0	1	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						41.5	216.9	-175.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	18.3	-18.3
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	568	1551	1.2	17.0	-15.8
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2065	0.0	33.4	-33.4
6	400 kV	KOLHAPUR-KUDGI	D/C	544	0	6.6	0.0	6.6
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	86	1.6	0.0	1.6
WR-SR						9.5	68.6	-59.2

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	171	167	4.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	585	582	568	13.6
	ER	TALA (6 * 170) BINAGURI RECEIPT	672	594	638	15.3
	NER	132KV-SALAKATI - GELEPHU	0	0	38	0.9
	NER	132KV-RANGIA - DEOTHANG	0	0	60	1.5
NEPAL	NR	132KV-Tamapur(NH) - Mahendranagar(PG)	-21	0	-11	-0.3
	ER	132KV-BIHAR - NEPAL	-93	-4	-38	-0.9
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	96	2	-14	-0.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-954	-756	-906	-21.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	84	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-75	-1.8