



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: 23rd June 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., डोंगतेह, 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 22.06.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-जून-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 22nd June 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: 23-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)	57128	40537	36830	20046	2777	157318
Peak Shortage (MW)	480	0	0	0	6	486
Energy Met (MU)	1294	980	881	419	52	3626
Hydro Gen (MU)	367	69	80	143	22	680
Wind Gen (MU)	20	80	162	-	-	262
Solar Gen (MU)*	42.10	22.70	62.50	4.69	0.03	132
Energy Shortage (MU)	13.6	0.0	0.0	0.0	0.0	13.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62468	44320	40920	20874	2812	162236
Time Of Maximum Demand Met (From NLDC SCADA)	22:35	10:17	09:19	21:15	19:04	22:23

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	0.030	0.00	0.14	7.00	7.14	83.24	9.62

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	12430	0	249.1	142.0	-4.3	95	0.0
	Haryana	8968	0	180.6	129.9	-0.5	354	0.0
	Rajasthan	11746	0	253.9	87.8	2.5	464	0.0
	Delhi	5351	0	101.9	88.5	-1.8	187	0.0
	UP	20100	270	390.1	196.7	1.1	390	3.0
	Uttarakhand	1865	0	40.0	17.6	0.2	120	0.0
	HP	1297	0	27.9	-1.6	-0.3	44	0.0
	J&K(UT) & Ladakh(UT)	2156	539	44.5	20.1	1.4	282	10.6
WR	Chandigarh	291	0	5.5	6.2	-0.6	17	0.0
	Chhattisgarh	2921	0	65.1	16.2	-6.0	194	0.0
	Gujarat	14532	0	306.1	107.7	2.5	613	0.0
	MP	7804	0	176.5	104.9	-2.3	593	0.0
	Maharashtra	17788	0	388.6	152.2	1.0	740	0.0
	Goa	436	0	8.9	8.3	0.1	50	0.0
	DD	231	0	4.6	4.4	0.2	34	0.0
	DNH	559	0	12.5	12.3	0.2	117	0.0
SR	AMNSIL	872	0	17.3	5.9	0.1	231	0.0
	Andhra Pradesh	8278	0	169.7	44.5	0.1	366	0.0
	Telangana	7471	0	157.6	97.2	3.1	799	0.0
	Karnataka	9860	0	190.7	61.0	-0.8	515	0.0
	Kerala	2975	0	61.8	40.7	-0.1	312	0.0
	Tamil Nadu	13072	0	293.4	123.6	-1.6	558	0.0
	Puducherry	380	0	7.8	8.1	-0.3	20	0.0
	ER	Bihar	5298	0	99.0	94.8	-1.2	290
DVC		2707	0	56.8	-30.3	-1.6	220	0.0
Jharkhand		1327	0	25.2	18.2	-1.3	130	0.0
Odisha		3928	0	83.5	5.2	-0.2	190	0.0
West Bengal		7881	0	153.4	49.0	-0.4	240	0.0
NER	Sikkim	83	0	1.2	1.3	-0.1	15	0.0
	Arunachal Pradesh	108	1	2.0	2.0	-0.1	42	0.0
	Assam	1760	17	33.3	27.9	0.9	140	0.0
	Manipur	181	0	2.5	2.3	0.2	22	0.0
	Meghalaya	336	0	5.7	0.3	-0.1	44	0.0
	Mizoram	94	1	1.6	1.4	0.0	21	0.0
	Nagaland	139	2	2.2	2.2	-0.4	9	0.0
	Tripura	286	5	4.8	5.1	-0.4	54	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.3	-1.6	-24.6
Day Peak (MW)	1889.0	-206.6	-1129.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	272.4	-261.1	102.7	-110.5	-3.6	0.0
Actual(MU)	257.7	-268.9	113.2	-108.9	-3.0	-9.8
O/D/U/D(MU)	-14.7	-7.8	10.5	1.6	0.6	-9.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4387	15229	11122	2120	344	33201
State Sector	8290	25977	14753	4962	11	53993
Total	12677	41206	25875	7082	355	87194

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	515	955	324	417	10	2222
Lignite	28	15	44	0	0	87
Hydro	367	69	80	143	22	680
Nuclear	30	36	47	0	0	113
Gas, Naptha & Diesel	35	77	16	0	28	158
RES (Wind, Solar, Biomass & Others)	81	110	269	5	0	464
Total	1056	1262	780	565	60	3723

Share of RES in total generation (%)	7.65	8.68	34.51	0.84	0.05	12.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.24	17.02	50.73	26.09	35.90	33.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.082

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: 23-Jun-2020

SI 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	24.4	-24.4	
2	HVDC	PUSAULI B/B	S/C	0	399	0.0	9.7	-9.7	
3	765 kV	GAYA-VARANASI	D/C	119	544	0.0	5.1	-5.1	
4	765 kV	SASARAM-FATEHPUR	S/C	164	127	0.8	0.0	0.8	
5	765 kV	GAYA-BALIA	S/C	34	497	0.0	6.2	-6.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	308	0.0	6.8	-6.8	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	151	0.0	2.8	-2.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	774	0.0	12.9	-12.9	
9	400 kV	PATNA-BALIA	Q/C	0	1092	0.0	17.5	-17.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	350	0.0	4.5	-4.5	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	329	0.0	5.1	-5.1	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	89	192	0.0	0.6	-0.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	87	0.0	1.5	-1.5	
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	1.2	97.2	-96.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1319	0	18.4	0.0	18.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	803	0	12.1	0.0	12.1	
3	765 kV	JHARSUGUDA-DURG	D/C	78	97	0.3	0.0	0.3	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	238	51	2.1	0.0	2.1	
5	400 kV	RANCHI-SIPAT	D/C	349	0	5.2	0.0	5.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	2	122	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	202	0	3.2	0.0	3.2	
						ER-WR	41.2	1.2	40.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	411	0.0	9.3	-9.3	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1852	0.0	37.2	-37.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2435	0.0	43.8	-43.8	
4	400 kV	TALCHER-I/C	D/C	839	993	0.0	0.0	0.0	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	90.3	-90.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	378	0.0	3.8	-3.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	162	397	0.0	2.4	-2.4	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	114	0.0	1.4	-1.4	
						ER-NER	0.0	7.6	-7.6
Import/Export of ER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	12.3	-12.3	
						NER-NR	0.0	12.3	-12.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1754	0.0	33.4	-33.4	
2	HVDC	V'CHAL B/B	D/C	48	483	1.1	0.9	0.2	
3	HVDC	APL -MHG	D/C	0	1731	0.0	28.8	-28.8	
4	765 kV	GWALIOR-AGRA	D/C	0	2703	0.0	42.4	-42.4	
5	765 kV	PHAGI-GWALIOR	D/C	0	1394	0.0	20.3	-20.3	
6	765 kV	JABALPUR-ORAI	D/C	0	1044	0.0	31.0	-31.0	
7	765 kV	GWALIOR-ORAI	S/C	486	0	7.8	0.0	7.8	
8	765 kV	SATNA-ORAI	S/C	0	1637	0.0	31.0	-31.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	509	1109	0.0	4.1	-4.1	
10	400 kV	ZERDA-KANKROLI	S/C	193	195	0.8	0.0	0.8	
11	400 kV	ZERDA -BHINMAL	S/C	195	325	0.0	0.9	-0.9	
12	400 kV	V'CHAL -RIHAND	S/C	968	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	D/C	142	545	0.0	2.4	-2.4	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	S/C	0	98	0.0	1.6	-1.6	
16	220 kV	MEHGAON-AURAIYA	S/C	172	0	0.0	0.0	0.0	
17	220 kV	MALANPUR-AURAIYA	S/C	0	4	3.4	0.0	3.4	
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	35.5	197.9	-162.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	16.5	-16.5	
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	382	1954	0.5	20.3	-19.7	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2319	0.0	35.0	-35.0	
6	400 kV	KOLHAPUR-KUDGI	D/C	742	0	8.6	0.0	8.6	
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	90	1.6	0.0	1.6	
						WR-SR	10.8	71.7	-61.0

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	295	249	244	5.9
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	585	581	599	14.4
	ER	TALA (6 * 170) BINAGURI RECEIPT	1009	997	1044	25.1
	NER	132KV-SALAKATI - GELEPHU	0	0	43	1.0
	NER	132KV-RANGIA - DEOTHANG	0	0	42	1.0
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-22	0	-5	-0.1
	ER	132KV-BIHAR - NEPAL	-27	-1	-9	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-158	-2	-52	-1.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-962	-954	-913	-21.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	84	0	-61	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-52	-1.3