



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:14th August 2021

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 13.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-अगस्त-2021 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 13th August 2021, is available at the NLDC website.

धन्यवाद,

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



Report for previous day

Date of Reporting: 14-Aug-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	65698	55264	42257	23128	2998	189345
Peak Shortage (MW)	795	124	0	0	0	919
Energy Met (MU)	1507	1332	1055	504	57	4455
Hydro Gen (MU)	366	40	160	142	32	739
Wind Gen (MU)	49	116	146	-	-	311
Solar Gen (MU)*	57.60	34.33	78.88	4.18	0.14	175
Energy Shortage (MU)	5.17	1.20	0.00	0.00	0.00	6.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68187	57959	51340	23637	3057	196152
Time Of Maximum Demand Met (From NLDC SCADA)	23:07	14:55	09:58	21:04	19:09	10:50

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	0.020	0.00	0.00	0.14	0.14	76.28	23.59

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	12878	0	294.0	164.1	-1.2	217	0.00
	Haryana	10536	0	232.0	171.4	0.9	321	0.00
	Rajasthan	12678	0	278.4	77.9	-0.1	417	0.00
	Delhi	5997	0	122.0	109.4	-1.8	106	0.00
	UP	22569	450	447.6	198.6	2.2	685	1.21
	Uttarakhand	2024	0	45.1	17.5	1.2	202	0.51
	HP	1493	0	33.9	-6.4	-0.1	92	0.00
	J&K(UT) & Ladakh(UT)	2344	250	48.0	22.6	0.1	264	3.45
WR	Chhattisgarh	344	0	6.5	6.6	-0.1	39	0.00
	Gujarat	4814	29	115.8	58.3	1.0	279	1.20
	Maharashtra	18654	0	414.1	179.6	-0.2	510	0.00
	MP	10110	0	223.9	124.9	1.0	633	0.00
	Goa	23990	0	521.4	165.0	-0.7	708	0.00
	DD	596	0	11.7	12.1	-0.6	50	0.00
	DNH	336	0	7.5	7.2	0.3	83	0.00
	AMNSIL	840	0	19.8	19.7	0.1	47	0.00
SR	Andhra Pradesh	810	0	17.8	8.7	-0.4	263	0.00
	Telangana	9704	0	204.7	68.7	1.8	763	0.00
	Karnataka	11947	0	238.2	90.7	1.0	902	0.00
	Kerala	10873	0	198.4	23.0	1.0	717	0.00
	Tamil Nadu	3294	0	69.2	36.8	0.2	254	0.00
	Puducherry	15471	0	335.5	128.3	-1.3	407	0.00
ER	Bihar	403	0	8.7	8.6	0.0	58	0.00
	DVC	6033	0	115.8	109.2	-0.5	367	0.00
	Jharkhand	3124	0	67.8	-35.7	4.6	819	0.00
	Odisha	1597	0	30.6	25.0	-1.6	158	0.00
	West Bengal	5404	0	109.7	31.4	-0.7	410	0.00
	Sikkim	8655	0	179.1	54.1	0.0	549	0.00
NER	Arunachal Pradesh	85	0	1.5	1.5	0.0	26	0.00
	Assam	124	0	2.2	2.5	-0.3	27	0.00
	Manipur	1978	0	36.7	29.1	-0.2	98	0.00
	Meghalaya	193	0	2.9	2.6	0.3	27	0.00
	Mizoram	330	0	6.4	0.8	0.5	78	0.00
	Nagaland	101	0	1.6	1.2	0.0	15	0.00
	Tripura	139	0	2.7	2.2	0.0	31	0.00
		276	0	4.5	4.8	-0.4	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.1	-0.7	-20.1
Day Peak (MW)	2093.0	-175.6	-845.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	297.5	-170.3	7.0	-128.7	-5.5	0.0
Actual(MU)	284.8	-160.4	12.2	-133.1	-9.0	-5.5
O/D/U/D(MU)	-12.8	9.9	5.2	-4.3	-3.5	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4742	17508	9142	970	659	33020	49
State Sector	6840	15330	7445	4085	11	33711	51
Total	11582	32838	16587	5055	670	66731	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	675	1256	565	513	11	3021	67
Lignite	24	10	43	0	0	77	2
Hydro	366	40	160	142	32	739	16
Nuclear	17	29	19	0	0	66	1
Gas, Naptha & Diesel	25	28	12	0	28	93	2
RES (Wind, Solar, Biomass & Others)	128	150	258	4	0	540	12
Total	1235	1514	1057	659	71	4536	100

Share of RES in total generation (%)	10.33	9.93	24.43	0.64	0.20	11.91
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	41.35	14.51	41.32	22.16	44.31	29.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.074

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting: 14-Aug-2021		
						Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	1301	0.0	28.8	-28.8
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	73	369	0.0	3.2	-3.2
4	765 kV	SASARAM-FATEHPUR	1	481	305	0.0	5.0	-5.0
5	765 kV	GAYA-BALIA	1	0	498	0.0	8.1	-8.1
6	400 kV	PUSAULLY-VARANASI	1	0	180	0.0	3.5	-3.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	141	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	562	0.0	9.5	-9.5
9	400 kV	PATNA-BALIA	4	0	1055	0.0	21.7	-21.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	271	0.0	4.2	-4.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	378	0.0	6.9	-6.9
12	400 kV	BIHARSHARIFF-VARANASI	2	36	125	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	7	87	0.0	1.0	-1.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7
16	132 kV	KARMANASA-SAHUPURI	1	4	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.7	101.2	-100.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	870	209	5.7	0.0	5.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1342	0	16.7	0.0	16.7
3	765 kV	JHARSUGUDA-DURG	2	170	95	0.7	0.0	0.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	466	0.0	7.3	-7.3
5	400 kV	RANCHI-SIPAT	2	296	68	3.0	0.0	3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	146	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	60	8	0.6	0.0	0.6
ER-WR						26.7	9.9	16.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	466	0.0	10.4	-10.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1784	0.0	33.7	-33.7
3	765 kV	ANGUL-SIRSAKULAM	2	0	2503	0.0	39.4	-39.4
4	400 kV	TALCHER-IC	2	216	732	0.0	2.7	-2.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	83.4	-83.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	124	303	0.0	2.6	-2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	310	176	1.9	0.0	1.9
3	220 kV	ALIPURDUAR-SALAKATI	2	1	90	0.0	0.9	-0.9
ER-NER						1.9	3.5	-1.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3019	0.0	48.5	-48.5
2	HVDC	VINDHYACHAL B/B	-	0	12	0.0	0.0	0.0
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	787	0.0	17.8	-17.8
4	765 kV	GWALIOR-AGRA	2	0	2037	0.0	30.7	-30.7
5	765 kV	GWALIOR-PHAGI	2	0	1814	0.0	32.1	-32.1
6	765 kV	JABALPUR-ORAI	2	0	1140	0.0	39.9	-39.9
7	765 kV	GWALIOR-ORAI	1	825	0	0.0	14.1	-14.1
8	765 kV	SATNA-ORAI	1	0	927	0.0	19.2	-19.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1459	176	13.7	0.0	13.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3164	0.0	51.4	-51.4
11	400 kV	ZERDA-KANKROLI	1	342	0	4.5	0.0	4.5
12	400 kV	ZERDA-BHINMAL	1	607	0	8.8	0.0	8.8
13	400 kV	VINDHYACHAL-RIHAND	1	956	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	0	502	0.0	5.8	-5.8
15	220 kV	BHANPURA-RANPUR	1	0	97	0.0	1.4	-1.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	131	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.6	0.0	1.6
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						51.4	261.6	-210.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	794	0	15.7	0.0	15.7
2	HVDC	RAIGARH-PUGALUR	2	964	0	15.1	0.0	15.1
3	765 kV	SOLAPUR-RAICHUR	2	1394	733	12.5	0.0	12.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2625	0.0	30.0	-30.0
5	400 kV	KOLHAPUR-KUDGI	2	1359	0	23.6	0.0	23.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	75	1.5	0.0	1.5
WR-SR						68.3	30.0	38.4

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	635	0	542	13.0
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1080	564	977	23.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	288	256	257	6.2
	NER	132kV GELEPHU-SALAKATI	24	14	19	0.4
	NER	132kV MOTANGA-RANGIA	67	32	43	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-34	0	-13	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-41	-1	-11	-0.3
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-101	70	-4	-0.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-709	-706	-708	-17.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-128	-3.1