



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: 25th 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 24.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th August 2021, 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: 25-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)	61600	54735	43057	23144	2884	185420
Peak Shortage (MW)	450	389	0	337	0	1176
Energy Met (MU)	1382	1257	1003	510	56	4208
Hydro Gen (MU)	354	44	137	150	27	712
Wind Gen (MU)	64	88	66	-	-	217
Solar Gen (MU)*	55.50	35.41	103.50	3.90	0.18	198
Energy Shortage (MU)	4.33	2.20	0.00	1.01	0.00	7.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63384	54735	48194	23427	2985	186452
Time Of Maximum Demand Met (From NLDC SCADA)	22:17	20:00	12:39	19:36	19:00	19:42

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	0.031	0.00	0.37	5.53	5.90	84.77	9.33

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	10962	0	244.3	157.5	-0.7	110	0.00
	Haryana	9547	8	198.0	146.3	2.6	342	0.71
	Rajasthan	12958	0	280.3	59.9	1.0	418	0.00
	Delhi	5766	0	119.9	110.4	-1.7	112	0.00
	UP	20808	0	407.2	155.0	-2.2	549	0.00
	Uttarakhand	1887	0	43.3	12.2	1.1	119	0.16
	HP	1508	0	34.2	-5.3	0.1	92	0.01
	J&K(UT) & Ladakh(UT)	2472	250	48.8	22.7	0.6	274	3.45
WR	Chhattisgarh	316	0	6.2	6.3	0.0	31	0.00
	Gujarat	4486	34	107.4	58.5	2.5	348	2.20
	Maharashtra	18254	0	401.7	192.2	0.7	575	0.00
	MP	9688	0	218.5	125.7	2.7	923	0.00
	Goa	21303	0	471.8	132.7	5.4	490	0.00
	DD	634	0	11.9	11.8	0.1	52	0.00
	DNH	335	0	7.2	6.9	0.3	89	0.00
	AMNSIL	852	0	19.7	19.4	0.3	58	0.00
SR	Andhra Pradesh	863	0	18.8	8.3	0.1	279	0.00
	Telangana	9530	0	196.4	102.4	1.2	862	0.00
	Karnataka	11554	0	228.9	72.5	0.0	421	0.00
	Kerala	9369	0	185.7	11.5	-2.5	497	0.00
	Tamil Nadu	3546	0	71.8	41.5	-0.3	344	0.00
	Puducherry	14420	0	312.5	152.1	0.7	1049	0.00
ER	Bihar	366	0	7.6	8.0	-0.4	15	0.00
	DVC	5878	0	114.1	108.9	-0.7	406	0.00
	Jharkhand	3001	0	65.4	-33.0	1.7	330	0.00
	Odisha	1470	337	32.3	24.5	-0.2	181	1.01
	West Bengal	5394	0	112.5	30.5	-0.8	359	0.00
	Sikkim	8778	0	183.9	67.2	0.3	582	0.00
NER	Arunachal Pradesh	88	0	1.5	1.4	0.0	24	0.00
	Assam	120	0	2.4	2.5	-0.1	46	0.00
	Manipur	1883	0	36.1	29.5	1.0	163	0.00
	Meghalaya	195	0	2.8	2.6	0.2	40	0.00
	Mizoram	330	0	6.0	1.1	0.0	88	0.00
	Nagaland	102	0	1.6	1.2	0.0	36	0.00
	Tripura	119	0	2.6	2.3	0.0	14	0.00
		285	0	4.9	5.1	-0.2	77	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.2	0.3	-19.7
Day Peak (MW)	2268.0	0.5	-853.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	214.9	-161.8	55.2	-101.9	-6.3	0.0
Actual(MU)	206.6	-145.0	42.7	-101.1	-7.6	-4.3
O/D/U/D(MU)	-8.3	16.8	-12.5	0.9	-1.3	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4041	16378	10282	3215	559	34474	49
State Sector	8320	17023	6065	4435	11	35854	51
Total	12361	33401	16347	7650	570	70328	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	628	1171	550	464	17	2830	66
Lignite	24	11	35	0	0	70	2
Hydro	354	44	137	150	27	712	17
Nuclear	19	32	41	0	0	92	2
Gas, Naptha & Diesel	27	34	10	0	25	96	2
RES (Wind, Solar, Biomass & Others)	140	124	198	4	0	467	11
Total	1191	1416	970	619	69	4266	100

Share of RES in total generation (%)	11.76	8.77	20.45	0.64	0.26	10.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.02	14.16	38.74	24.92	39.33	29.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.068

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: 25-Aug-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1401	0.0	33.1	-33.1	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	262	247	0.0	0.5	-0.5	
4	765 kV	SASARAM-FATEHPUR	1	56	195	0.0	1.5	-1.5	
5	765 kV	GAYA-BALIA	1	16	388	0.0	4.5	-4.5	
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	122	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	391	0.0	7.3	-7.3	
9	400 kV	PATNA-BALIA	4	0	609	0.0	12.2	-12.2	
10	400 kV	BIHARSHARIF-BALIA	2	80	72	0.0	0.5	-0.5	
11	400 kV	MOTHARI-GORAKHPUR	2	0	273	0.0	5.3	-5.3	
12	400 kV	BIHARSHARIF-VARANASI	2	133	89	1.3	0.0	1.3	
13	220 kV	PUSAULI-SAHUPURI	1	36	58	0.0	0.6	-0.6	
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	3	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.9	77.4	-75.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	751	298	5.8	0.0	5.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1625	0	23.3	0.0	23.3	
3	765 kV	JHARSUGUDA-DURG	2	453	119	1.0	0.0	1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	486	0.0	6.9	-6.9	
5	400 kV	RANCHI-SIPAT	2	286	35	3.5	0.0	3.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	42	50	0.0	0.1	-0.1	
						ER-WR	33.6	9.3	24.3
Import/Export of ER (With SR)									
1	HVDC	JEVPORE-GAZUWAKA B/B	2	0	290	0.0	6.2	-6.2	
2	HVDC	TALCHER-OLAR BIPOLE	2	0	1639	0.0	32.2	-32.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2449	0.0	34.8	-34.8	
4	400 kV	TALCHER-IC	2	0	772	0.0	10.6	-10.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	73.2	-73.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	99	308	0.0	2.6	-2.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	316	284	0.9	0.0	0.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	3	107	0.0	1.0	-1.0	
						ER-NER	0.9	3.6	-2.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0	
						NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2503	0.0	24.4	-24.4	
2	HVDC	VINDHYACHAL B/B	-	195	253	2.2	2.2	0.0	
3	HVDC	MUNDRYA-MOHINDERGARH	2	0	494	0.0	10.6	-10.6	
4	765 kV	GWALIOR-AGRA	2	0	1822	0.0	27.2	-27.2	
5	765 kV	GWALIOR-PHAGI	2	0	1605	0.0	31.8	-31.8	
6	765 kV	JABALPUR-ORAI	2	0	967	0.0	31.4	-31.4	
7	765 kV	GWALIOR-ORAI	1	718	0	13.2	0.0	13.2	
8	765 kV	SATNA-ORAI	1	0	838	0.0	17.9	-17.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1242	150	13.6	0.0	13.6	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2760	0.0	43.7	-43.7	
11	400 kV	ZERDA-KANKROLI	1	330	0	5.2	0.0	5.2	
12	400 kV	ZERDA-BHINMAL	1	592	520	10.4	0.0	10.4	
13	400 kV	VINDHYACHAL-RIHAND	1	963	0	22.2	0.0	22.2	
14	400 kV	RAPP-SHUALPUR	2	0	477	0.0	5.0	-5.0	
15	220 kV	BHANPURA-RANPUR	1	0	103	0.0	1.5	-1.5	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1	
17	220 kV	MEHGAON-AURAIYA	1	142	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	100	0	2.2	0.0	2.2	
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	70.2	196.7	-126.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	794	217	0.6	4.7	-4.1	
2	HVDC	RAIGARH-PUGALUR	2	465	502	0.0	11.5	-11.5	
3	765 kV	SOLAPUR-RAICHUR	2	1818	838	19.0	1.2	17.8	
4	765 kV	WARDHA-NIZAMABAD	2	139	2165	0.0	20.0	-20.0	
5	400 kV	KOLHAPUR-KUDGI	2	1351	0	22.7	0.0	22.7	
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	90	1.5	0.0	1.5	
						WR-SR	43.9	37.5	6.4

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 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	833	0	811	19.5
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1036	0	1028	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	305	0	260	6.3
	NER	132kV GELEPHU-SALAKATI	38	20	28	0.7
	NER	132kV MOTANGA-RANGIA	56	42	47	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-31	0	-11	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-12	-1	-5	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	43	2	30	0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-708	-700	-703	-16.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-145	0	-118	-2.8