



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:12th 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 11.08.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-अगस्त-2021 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 11th 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: 12-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)	62394	55650	43196	22734	2940	186914
Peak Shortage (MW)	350	0	20	1038	2	1410
Energy Met (MU)	1433	1298	1082	507	58	4377
Hydro Gen (MU)	383	41	177	118	29	748
Wind Gen (MU)	51	114	132	-	-	297
Solar Gen (MU)*	56.46	28.05	101.20	4.39	0.20	190
Energy Shortage (MU)	5.18	0.00	0.02	3.19	0.00	8.39
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65111	55966	51618	23453	2971	191692
Time Of Maximum Demand Met (From NLDC SCADA)	22:23	15:59	10:39	21:46	19:24	11:58

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	0.051	0.00	1.90	10.54	12.44	74.38	13.18

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	12501	0	283.6	164.9	-0.7	250	0.00
	Haryana	10124	0	220.2	169.8	-0.3	198	0.00
	Rajasthan	11978	0	265.3	54.5	1.6	583	0.32
	Delhi	5705	0	116.6	106.3	-1.7	136	0.01
	UP	21843	0	416.8	180.9	-2.2	263	0.16
	Uttarakhand	1973	0	44.5	17.6	-0.2	99	0.62
	HP	1521	0	33.9	-6.6	0.2	94	0.62
	J&K(UT) & Ladakh(UT)	2232	250	45.3	21.2	-1.3	206	3.45
	Chandigarh	348	0	6.5	6.9	-0.4	18	0.00
	Chhattisgarh	4611	0	112.1	53.5	0.1	323	0.00
WR	Gujarat	18342	0	405.2	176.6	-1.4	418	0.00
	MP	9313	0	200.8	104.7	-1.1	440	0.00
	Maharashtra	23699	0	522.1	163.9	0.9	690	0.00
	Goa	583	0	13.3	11.8	0.8	29	0.00
	DD	337	0	7.5	7.0	0.5	83	0.00
	DNH	841	0	19.6	19.2	0.4	91	0.00
	AMNSIL	801	0	17.6	7.2	0.3	277	0.00
SR	Andhra Pradesh	10130	0	206.1	65.4	1.5	806	0.00
	Telangana	12452	0	249.2	100.4	1.4	938	0.00
	Karnataka	11371	0	203.6	23.1	-0.4	452	0.00
	Kerala	3373	0	70.9	30.1	-0.7	187	0.00
	Tamil Nadu	15387	0	343.5	136.3	-1.6	449	0.00
	Puducherry	393	20	8.8	8.9	-0.1	36	0.02
ER	Bihar	5961	0	119.7	111.8	0.7	348	2.70
	DVC	3038	0	64.4	-38.7	0.1	426	0.00
	Jharkhand	1474	138	29.0	23.0	-1.4	168	0.49
	Odisha	5217	0	108.0	34.8	-1.0	504	0.00
	West Bengal	8960	0	184.3	55.7	1.1	435	0.00
NER	Sikkim	86	0	1.4	1.3	0.1	21	0.00
	Arunachal Pradesh	140	0	2.5	2.3	0.1	61	0.00
	Assam	1926	0	37.3	29.6	-0.1	179	0.00
	Manipur	205	0	2.7	2.6	0.1	39	0.00
	Meghalaya	328	0	5.8	0.8	0.0	69	0.00
	Mizoram	101	0	1.6	1.2	0.0	19	0.00
	Nagaland	144	0	2.5	2.3	0.0	40	0.00
	Tripura	291	0	5.2	5.4	-0.1	42	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	21.1	-3.0	-20.1
Day Peak (MW)	1024.0	-536.7	-876.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	257.9	-166.4	25.0	-111.5	-4.9	0.0
Actual(MU)	240.2	-167.2	26.0	-100.9	-5.6	-7.5
O/D/U/D(MU)	-17.7	-0.8	1.0	10.7	-0.7	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5312	17008	9732	1105	659	33815	50
State Sector	7010	16285	6965	3795	11	34066	50
Total	12322	33293	16697	4900	670	67881	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	638	1229	535	515	11	2927	65
Lignite	25	12	45	0	0	82	2
Hvdro	383	41	177	118	29	748	17
Nuclear	18	33	36	0	0	87	2
Gas, Naptha & Diesel	20	28	10	0	28	86	2
RES (Wind, Solar, Biomass & Others)	128	142	267	4	0	542	12
Total	1213	1485	1070	637	69	4473	100
Share of RES in total generation (%)	10.58	9.59	24.93	0.70	0.29	12.12	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.67	14.54	44.85	19.19	43.10	30.79	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.084

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: 12-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	1001	0.0	25.5	-25.5	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	184	298	0.0	0.8	-0.8	
4	765 kV	SASARAM-FATEHPUR	1	10	233	0.0	2.4	-2.4	
5	765 kV	GAYA-BALIA	1	0	441	0.0	6.6	-6.6	
6	400 kV	PUSAULI-VARANASI	1	0	194	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	140	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	2	395	0.0	5.3	-5.3	
9	400 kV	PATNA-BALIA	4	0	664	0.0	10.4	-10.4	
10	400 kV	BIHARSHARIFF-BALIA	2	44	129	0.0	0.2	-0.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	13	292	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	89	88	0.9	0.0	0.9	
13	220 kV	PUSAULI-SAHUPURI	1	23	97	0.0	0.9	-0.9	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	-0.5	
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	1.4	68.0	-66.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	785	318	6.0	0.0	6.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1253	78	18.7	0.0	18.7	
3	765 kV	JHARSUGUDA-DURG	2	96	183	0.0	0.2	-0.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	493	0.0	6.2	-6.2	
5	400 kV	RANCHI-SIPAT	2	283	92	3.8	0.0	3.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	147	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	105	0	1.6	0.0	1.6	
						ER-WR	30.1	8.5	21.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	463	0.0	10.1	-10.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	35.7	-35.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2709	0.0	43.0	-43.0	
4	400 kV	TALCHER-I/C	2	229	282	0.0	2.4	-2.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	88.8	-88.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	61	245	0.0	2.8	-2.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	198	235	0.0	1.0	-1.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	1	73	0.0	1.0	-1.0	
						ER-NER	0.0	4.8	-4.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.2	-12.2	
						NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3526	0.0	48.5	-48.5	
2	HVDC	VINDHYACHAL B/B	-	0	52	0.0	0.5	-0.5	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	981	0.0	24.2	-24.2	
4	765 kV	GWALIOR-AGRA	2	0	1861	0.0	32.9	-32.9	
5	765 kV	GWALIOR-PHAGI	2	0	1616	0.0	26.8	-26.8	
6	765 kV	JABALPUR-ORAI	2	761	961	0.0	35.3	-35.3	
7	765 kV	GWALIOR-ORAI	1	753	0	14.8	0.0	14.8	
8	765 kV	SATNA-ORAI	1	0	795	0.0	17.5	-17.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	1455	0	15.7	0.0	15.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2947	0.0	51.0	-51.0	
11	400 kV	ZERDA-KANKROLI	1	364	0	5.5	0.0	5.5	
12	400 kV	ZERDA -BHINMAL	1	583	0	9.8	0.0	9.8	
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.6	0.0	22.6	
14	400 kV	RAPP-SHUALPUR	2	34	411	0.0	4.6	-4.6	
15	220 kV	BHANPURA-RANPUR	1	0	97	0.0	1.3	-1.3	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8	
17	220 kV	MEHGAON-AURAIYA	1	122	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	86	7	1.3	0.0	1.3	
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	70.1	243.3	-173.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	300	0	7.3	0.0	7.3	
2	HVDC	RAIGARH-PUGALUR	2	970	0	19.1	0.0	19.1	
3	765 kV	SOLAPUR-RAICHUR	2	1327	929	12.0	0.0	12.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	2736	0.0	32.2	-32.2	
5	400 kV	KOLHAPUR-KUDGI	2	1071	0	19.8	0.0	19.8	
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	77	1.5	0.0	1.5	
						WR-SR	59.6	32.2	27.5

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	722	579	625	15.0
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	0.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	220	171	191	4.6
	NER	132kV GELEPHU-SALAKATI	23	0	18	0.4
	NER	132kV MOTANGA-RANGIA	58	34	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-66	0	-31	-0.7
	ER	NEPAL IMPORT (FROM BIHAR)	-221	-1	-46	-1.1
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-250	50	-49	-1.2
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-716	-701	-702	-16.8
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-136	-3.3