



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:31st 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 30.08.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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: 31-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)	60630	49769	39753	22070	2818	175040
Peak Shortage (MW)	275	0	0	0	3	278
Energy Met (MU)	1426	1210	868	470	54	4027
Hydro Gen (MU)	331	40	100	148	31	650
Wind Gen (MU)	8	50	181	-	-	240
Solar Gen (MU)*	39.17	26.64	61.48	4.48	0.20	132
Energy Shortage (MU)	4.20	1.70	0.21	4.30	0.00	10.41
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63196	52499	41336	22105	2876	176472
Time Of Maximum Demand Met (From NLDC SCADA)	12:40	09:41	10:30	19:53	18:39	11:40

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	1.76	1.76	81.74	16.50

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	12058	0	275.5	157.3	-1.2	131	0.00
	Haryana	9740	0	210.4	148.8	0.0	297	0.00
	Rajasthan	13657	0	286.4	136.3	-0.4	518	0.54
	Delhi	5129	0	105.9	85.5	-1.8	118	0.00
	UP	20030	0	422.9	203.0	-3.4	105	0.00
	Uttarakhand	1738	0	39.1	10.3	0.4	124	0.21
	HP	1473	0	31.1	-2.9	0.8	126	0.00
	J&K(UT) & Ladakh(UT)	2425	100	49.0	24.5	0.5	500	3.45
WR	Chandigarh	272	0	5.4	5.7	-0.3	17	0.00
	Chhattisgarh	4536	0	109.6	58.5	0.5	225	0.00
	Gujarat	15887	0	355.7	181.8	1.0	652	0.00
	MP	9927	0	219.8	138.7	4.0	708	1.70
	Maharashtra	21552	0	465.8	156.8	-2.8	489	0.00
	Goa	549	0	12.0	11.2	0.2	34	0.00
	DD	324	0	7.2	7.1	0.1	63	0.00
	DNH	847	0	19.7	19.5	0.2	52	0.00
SR	AMNSIL	891	0	19.8	4.5	0.2	327	0.00
	Andhra Pradesh	8078	0	173.4	55.6	1.0	617	0.21
	Telangana	7464	0	154.1	29.4	-2.3	337	0.00
	Karnataka	8835	0	167.7	13.1	-1.1	627	0.00
	Kerala	3421	0	66.2	37.8	-0.5	199	0.00
	Tamil Nadu	14228	0	298.5	107.5	-1.1	682	0.00
	Puducherry	381	0	7.9	8.4	-0.6	29	0.00
	Bihar	5741	0	111.2	104.2	1.2	507	1.75
ER	DVC	3105	0	65.1	-29.9	-0.8	258	1.09
	Jharkhand	1390	217	29.0	23.0	-1.4	171	1.46
	Odisha	4851	0	101.6	23.1	-0.9	330	0.00
	West Bengal	7960	0	161.3	46.2	-0.9	395	0.00
	Sikkim	82	0	1.4	1.4	-0.1	29	0.00
	NER	Arunachal Pradesh	100	0	2.0	2.0	0.0	25
Assam		1827	0	34.7	27.0	0.0	100	0.00
Manipur		198	0	2.8	2.6	0.2	25	0.00
Meghalaya		326	0	5.9	1.1	-0.3	30	0.00
Mizoram		104	0	1.6	1.2	-0.1	19	0.00
Nagaland		144	0	2.5	2.2	-0.2	34	0.00
Tripura	282	0	4.8	4.9	-0.4	20	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.6	1.1	-20.4
Day Peak (MW)	2265.0	180.4	-875.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	344.7	-109.1	-88.0	-141.2	-6.3	0.0
Actual(MU)	343.9	-80.5	-107.6	-153.0	-9.4	-6.6
OD/UD(MU)	-0.8	28.6	-19.6	-11.7	-3.0	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	506.3	18018	8672	2110	809	34671	46
State Sector	8745	19516	7785	4175	11	40232	54
Total	13808	37533	16457	6285	820	74903	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	622	1102	518	502	9	2752	67
Lignite	21	13	39	0	0	74	2
Hydro	331	40	100	148	31	650	16
Nuclear	26	20	39	0	0	84	2
Gas, Naptha & Diesel	41	60	12	0	28	142	3
RES (Wind, Solar, Biomass & Others)	63	77	278	5	0	423	10
Total	1104	1312	986	654	68	4125	100

Share of RES in total generation (%)	5.72	5.87	28.22	0.69	0.29	10.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.03	10.44	42.26	23.32	46.23	28.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
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)

Date of Reporting: 31-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	31.3	-31.3
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	17	597	0.0	7.5	-7.5
4	765 kV	SASARAM-FATEHPUR	1	56	269	0.0	3.2	-3.2
5	765 kV	GAYA-BALIA	1	0	329	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	166	0.0	3.0	-3.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	157	0.0	2.9	-2.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	774	0.0	14.2	-14.2
9	400 kV	PATNA-BALIA	4	0	1091	0.0	21.4	-21.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	376	0.0	6.1	-6.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	460	0.0	8.4	-8.4
12	400 kV	BIHARSHARIFF-VARANASI	2	9	265	0.0	3.0	-3.0
13	220 kV	PUSAULI-SAHUPURI	1	0	103	0.0	1.6	-1.6
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	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.7	119.5	-118.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1575	0.0	24.9	-24.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1232	0	19.1	0.0	19.1
3	765 kV	JHARSUGUDA-DURG	2	9	216	0.0	2.4	-2.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	552	0.0	9.8	-9.8
5	400 kV	RANCHI-SIPAT	2	263	10	3.6	0.0	3.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	205	0.0	3.8	-3.8
7	220 kV	BUDHIPADAR-KORBA	2	0	109	0.0	1.5	-1.5
ER-WR						22.7	42.4	-19.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	489	0	7.8	0.0	7.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1330	0.0	26.4	-26.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2355	0.0	38.1	-38.1
4	400 kV	TALCHER-UC	2	1044	0	16.5	0.0	16.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						7.8	64.5	-56.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	73	239	0.0	2.9	-2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	171	280	0.0	0.8	-0.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	94	0.0	1.3	-1.3
ER-NER						0.0	5.0	-5.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	653	0.0	15.7	-15.7
NER-NR						0.0	15.7	-15.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3026	0.0	41.8	-41.8
2	HVDC	VINDHYACHAL B/B	-	244	10	4.6	0.0	4.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	590	0.0	10.3	-10.3
4	765 kV	GWALIOR-AGRA	2	0	2158	0.0	38.9	-38.9
5	765 kV	GWALIOR-PHAGI	2	0	2392	0.0	49.1	-49.1
6	765 kV	JABALPUR-ORAI	2	0	1219	0.0	47.8	-47.8
7	765 kV	GWALIOR-ORAI	1	763	0	15.6	0.0	15.6
8	765 kV	SATNA-ORAI	1	0	1049	0.0	22.5	-22.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1160	0	17.9	0.0	17.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2968	0.0	57.7	-57.7
11	400 kV	ZERDA-KANKROLI	1	203	15	3.0	0.0	3.0
12	400 kV	ZERDA-BHINMAL	1	296	182	1.6	0.0	1.6
13	400 kV	VINDHYACHAL-RIHAND	1	971	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUALPUR	2	0	705	0.0	12.2	-12.2
15	220 kV	BHANPURA-RANPUR	1	0	128	0.0	2.0	-2.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	82	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	46	0	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						66.3	283.9	-217.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2151	0	48.6	0.0	48.6
3	765 kV	SOLAPUR-RAICHUR	2	2113	656	23.8	0.0	23.8
4	765 kV	WARDHA-NIZAMABAD	2	402	1286	1.0	9.1	-8.2
5	400 kV	KOLHAPUR-KUDGI	2	1439	0	27.4	0.0	27.4
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	NELDEM-AMBEWADI	1	0	90	1.6	0.0	1.6
WR-SR						126.5	9.1	117.4

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)	843	830	831	20.0
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1044	1019	1032	24.8
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	295	0	259	6.2
	NER	132KV GELEPHU-SALAKATI	31	21	26	0.6
	NER	132KV MOTANGA-RANGIA	52	31	42	1.0
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-61	0	-5	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	171	0	27	0.7
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	70	0	25	0.6
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-732	-723	-724	-17.4
BANGLADESH	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-143	0	-125	-3.0