



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: 22nd 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 21.08.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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: 22-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)	58327	50940	40224	21676	3047	174214
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1326	1177	962	491	58	4014
Hydro Gen (MU)	352	39	132	145	27	695
Wind Gen (MU)	13	60	54	-	-	128
Solar Gen (MU)*	48.22	21.92	65.30	4.35	0.24	140
Energy Shortage (MU)	3.45	0.00	0.00	0.00	0.00	3.45
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61217	51975	46870	23030	3109	175699
Time Of Maximum Demand Met (From NLDC SCADA)	00:09	10:15	09:40	20:32	19:01	19:33

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	0.023	0.00	0.00	2.70	2.70	79.69	17.61

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	12625	0	284.2	171.2	-1.5	55	0.00	
	Haryana	9354	0	173.6	138.6	-2.7	193	0.00	
	Rajasthan	12733	0	280.7	112.3	0.7	515	0.00	
	Delhi	4855	0	101.4	95.4	-2.4	66	0.00	
	UP	19526	0	360.3	147.8	-1.9	328	0.00	
	Uttarakhand	1929	0	41.2	12.3	-0.1	107	0.00	
	HP	1567	0	32.6	-5.9	-0.8	122	0.00	
	J&K(UT) & Ladakh(UT)	2385	250	47.2	22.2	-0.1	150	3.45	
WR	Chandigarh	238	0	5.1	5.8	-0.6	0	0.00	
	Chhattisgarh	4315	0	99.5	52.4	0.3	305	0.00	
	Gujarat	17812	0	383.5	196.8	-0.1	805	0.00	
	MP	9270	0	205.2	138.1	1.5	523	0.00	
	Maharashtra	20202	0	433.0	115.1	-0.4	608	0.00	
	Goa	587	0	12.3	11.4	0.4	52	0.00	
	DD	337	0	6.5	7.0	-0.5	122	0.00	
	DNH	847	0	19.8	19.6	0.2	47	0.00	
SR	AMNSIL	840	0	17.5	8.0	0.0	263	0.00	
	Andhra Pradesh	9202	0	187.9	90.0	0.6	644	0.00	
	Telangana	10541	0	200.4	38.7	-1.3	569	0.00	
	Karnataka	10378	0	192.5	23.4	-1.9	559	0.00	
	Kerala	2972	0	63.1	37.2	-0.5	281	0.00	
	Tamil Nadu	14110	0	310.9	184.0	1.6	1501	0.00	
	Puducherry	352	0	7.6	8.1	-0.5	37	0.00	
	ER	Bihar	6292	0	123.0	116.1	0.4	339	0.00
DVC		3109	0	67.6	-29.3	-0.1	243	0.00	
Jharkhand		1439	0	28.8	22.9	-1.4	178	0.00	
Odisha		5212	0	106.1	26.7	0.0	333	0.00	
West Bengal		8238	0	164.1	44.2	-0.3	430	0.00	
Sikkim		87	0	1.2	1.5	-0.2	21	0.00	
NER		Arumachal Pradesh	135	0	2.3	2.4	-0.1	50	0.00
		Assam	2005	0	37.6	31.5	0.6	98	0.00
	Manipur	206	0	2.7	2.6	0.1	29	0.00	
	Meghalaya	333	0	5.8	1.5	-0.1	32	0.00	
	Mizoram	105	0	1.7	1.3	0.0	31	0.00	
	Nagaland	142	0	2.5	2.2	-0.2	23	0.00	
	Tripura	275	0	4.9	5.0	-0.4	21	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.8	0.3	-19.5
Dav Peak (MW)	2243.0	17.1	-842.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	282.3	-152.2	15.3	-144.8	-0.6	0.0
Actual(MU)	249.2	-136.8	27.0	-144.0	-0.5	-5.2
OD/UD(MU)	-33.2	15.4	11.7	0.8	0.1	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4914	14758	8842	1170	809	30492	46
State Sector	7430	18495	5997	4435	11	36368	54
Total	12344	33253	14839	5605	820	66860	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	593	1124	577	500	9	2803	69
Lignite	25	11	34	0	0	70	2
Hydro	352	39	132	145	27	695	17
Nuclear	22	32	41	0	0	96	2
Gas, Naptha & Diesel	24	41	11	0	27	103	3
RES (Wind, Solar, Biomass & Others)	82	82	154	4	0	322	8
Total	1098	1329	949	650	63	4089	100

	NR	WR	SR	ER	NER	TOTAL
Share of RES in total generation (%)	7.44	6.17	16.21	0.67	0.38	7.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.55	11.53	34.46	22.97	42.79	27.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.060
Based on State Max Demands	1.107

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: 22-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	1301	0.0	30.2	-30.2
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	108	436	0.0	3.6	-3.6
4	765 kV	SASARAM-EATEHPUR	1	54	256	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	1	0	489	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	163	0.0	3.4	-3.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	150	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	555	0.0	9.5	-9.5
9	400 kV	PATNA-BALIA	4	0	1043	0.0	20.0	-20.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	247	0.0	4.8	-4.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	353	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	53	122	0.0	1.0	-1.0
13	220 kV	PUSAULI-SAHUPURI	1	7	82	0.0	0.9	-0.9
14	132 kV	SONENAGAR-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-CHANDAUJI	1	0	0	0.0	0.0	0.0
						ER-NR	98.8	-98.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	301	703	0.0	4.3	-4.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1291	146	15.6	0.0	15.6
3	765 kV	JHARSUGUDA-DURG	2	129	168	0.0	0.6	-0.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	487	0.0	7.4	-7.4
5	400 kV	RANCHI-SIPAT	2	290	123	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	141	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	14	74	0.0	0.8	-0.8
						ER-WR	18.0	2.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	238	387	0.0	3.4	-3.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	36.2	-36.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2380	0.0	35.6	-35.6
4	400 kV	TALCHER-JC	2	212	706	0.0	4.6	-4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	75.1	-75.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	322	0.0	4.9	-4.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	108	329	0.0	2.8	-2.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	120	0.0	1.7	-1.7
						ER-NER	9.4	-9.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
						NER-NR	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2516	0.0	32.5	-32.5
2	HVDC	VINDHYACHAL B/B	-	244	0	5.6	0.0	5.6
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	493	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	1838	0.0	28.4	-28.4
5	765 kV	GWALIOR-PHAGI	2	0	2141	0.0	39.9	-39.9
6	765 kV	JABALPUR-ORAI	2	0	1050	0.0	34.8	-34.8
7	765 kV	GWALIOR-ORAI	1	883	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	921	0.0	19.0	-19.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1331	0	20.5	0.0	20.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2966	0.0	49.7	-49.7
11	400 kV	ZERDA-KANKROLI	1	327	0	4.9	0.0	4.9
12	400 kV	ZERDA-BHINMAL	1	445	0	5.5	0.0	5.5
13	400 kV	VINDHYACHAL-RIHAND	1	966	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	0	516	0.0	7.1	-7.1
15	220 kV	BHANPURA-RANIPUR	1	0	83	0.0	1.1	-1.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.5	-0.5
17	220 kV	MEHGAON-AURAIYA	1	111	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	81	0	1.5	0.0	1.5
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	225.2	-148.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	383	6.9	3.9	3.0
2	HVDC	RAIGARH-PUGALUR	2	956	501	0.0	1.3	-1.3
3	765 kV	SOLAPUR-RAICHUR	2	1195	1350	4.8	0.0	4.8
4	765 kV	WARDHA-NIZAMABAD	2	194	2062	0.0	14.1	-14.1
5	400 kV	KOLHAPUR-KUDGI	2	1245	0	21.5	0.0	21.5
6	220 kV	KOLHAPUR-CHISGODI	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	1	82	1.5	0.0	1.5
						WR-SR	34.7	19.3

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)	816	0	716	17.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1027	1004	1018	24.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	306	267	268	6.4
	NER	132kV GELEPHU-SALAKATI	32	22	27	0.6
	NER	132kV MOTANGA-RANGIA	61	37	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-60	0	-24	-0.6
	ER	NEPAL IMPORT (FROM BIHAR)	-12	-1	-3	-0.1
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	89	-12	39	0.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-701	-692	-693	-16.6
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-141	0	-121	-2.9