



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:19th 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 18.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	66295	52946	41386	23274	2948	186849
Peak Shortage (MW)	1715	0	0	272	0	1987
Energy Met (MU)	1635	1239	953	500	56	4384
Hydro Gen (MU)	354	36	134	139	29	692
Wind Gen (MU)	23	79	172	-	-	273
Solar Gen (MU)*	59.64	22.94	83.34	4.30	0.28	171
Energy Shortage (MU)	6.25	0.20	0.00	1.06	0.00	7.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74044	53216	45865	23322	2991	193867
Time Of Maximum Demand Met (From NLDC SCADA)	12:23	11:09	11:58	20:57	19:02	12:23

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	0.024	0.00	0.00	3.48	3.48	81.10	15.41

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	12769	0	303.0	174.3	-1.0	105	0.00
	Haryana	11210	0	251.1	191.3	-1.2	128	0.40
	Rajasthan	14578	0	308.0	121.8	2.2	805	0.00
	Delhi	6453	0	134.6	122.3	-2.0	134	0.00
	UP	23603	360	500.8	219.7	-1.4	302	0.00
	Uttarakhand	2157	0	46.1	15.4	2.0	217	2.40
	HP	1589	0	35.4	-2.8	0.8	142	0.00
	J&K(UT) & Ladakh(UT)	2433	250	49.5	22.8	1.7	277	3.45
WR	Chandigarh	356	0	6.8	6.5	0.4	68	0.00
	Chhattisgarh	4111	0	99.5	47.2	-0.5	533	0.20
	Gujarat	18932	0	415.1	186.3	1.3	512	0.00
	MP	9820	0	218.9	138.2	-1.3	500	0.00
	Maharashtra	20823	0	448.6	130.4	1.3	611	0.00
	Goa	563	0	12.7	11.5	0.5	26	0.00
	DD	327	0	7.3	7.0	0.3	77	0.00
	DNH	853	0	19.3	19.6	-0.3	61	0.00
SR	AMNSIL	846	0	17.8	6.9	0.2	282	0.00
	Andhra Pradesh	8968	0	188.7	67.0	-0.7	541	0.00
	Telangana	8768	0	174.1	39.2	-1.0	829	0.00
	Karnataka	10318	0	188.3	9.2	-2.7	575	0.00
	Kerala	3412	0	70.7	38.6	-1.0	218	0.00
	Tamil Nadu	14795	0	322.8	122.4	-2.5	362	0.00
	Puducherry	405	0	8.5	8.5	0.0	42	0.00
	ER	Bihar	6084	0	123.7	117.5	-0.4	478
DVC		3081	0	67.3	-30.5	0.2	254	0.00
Jharkhand		1398	252	28.3	22.4	-1.3	198	1.06
Odisha		5810	0	110.3	29.8	-1.4	268	0.00
West Bengal		8282	0	169.3	57.4	-0.3	579	0.00
Sikkim		89	0	1.5	1.5	0.0	45	0.00
NER	Arunachal Pradesh	132	0	2.4	2.3	0.1	40	0.00
	Assam	1946	0	36.6	29.0	0.1	136	0.00
	Manipur	193	0	2.6	2.5	0.1	21	0.00
	Meghalaya	323	0	5.9	1.1	-0.1	43	0.00
	Mizoram	107	0	1.6	1.2	0.1	21	0.00
	Nagaland	134	0	2.5	1.9	0.2	25	0.00
	Tripura	260	0	4.6	4.7	-0.5	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.6	-0.7	-19.5
Day Peak (MW)	2079.0	-30.8	-846.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	416.8	-213.3	-84.9	-110.5	-8.2	0.0
Actual(MU)	420.8	-208.9	-105.2	-103.5	-9.4	-6.2
O/D/U/D(MU)	4.0	4.3	-20.3	7.1	-1.2	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4273	13898	7742	1520	809	28241	47
State Sector	6330	13386	7387	4955	11	32069	53
Total	10603	27283	15129	6475	820	60310	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	721	1225	562	481	14	3003	67
Lignite	21	8	33	0	0	62	1
Hydro	354	36	134	139	29	692	15
Nuclear	22	32	41	0	0	96	2
Gas, Naptha & Diesel	27	62	10	0	28	126	3
RES (Wind, Solar, Biomass & Others)	102	102	290	4	0	499	11
Total	1246	1466	1069	624	71	4477	100

Share of RES in total generation (%)	8.19	6.99	27.09	0.69	0.39	11.14
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.34	11.68	43.42	22.97	40.95	28.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.062

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: 19-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	29.9	-29.9	
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	211	444	0.0	4.4	-4.4	
4	765 kV	SASARAM-FATEHPUR	1	37	307	0.0	4.4	-4.4	
5	765 kV	GAYA-BALIA	1	0	553	0.0	8.8	-8.8	
6	400 kV	PUSAULI-VARANASI	1	0	156	0.0	2.7	-2.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	168	0.0	3.0	-3.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	748	0.0	13.5	-13.5	
9	400 kV	PATNA-BALIA	4	0	881	0.0	17.1	-17.1	
10	400 kV	BIHARSHARIF-BALIA	2	0	275	0.0	3.3	-3.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	450	0.0	8.4	-8.4	
12	400 kV	BIHARSHARIF-VARANASI	2	74	170	0.0	1.7	-1.7	
13	220 kV	PUSAULI-SAHUPURI	1	8	100	0.0	1.4	-1.4	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6	
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	0.6	104.4	-103.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	233	980	0.0	12.7	-12.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1451	0	19.3	0.0	19.3	
3	765 kV	JHARSUGUDA-DURG	2	196	84	1.1	0.0	1.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	32	367	0.0	3.8	-3.8	
5	400 kV	RANCHI-SIPAT	2	355	9	4.0	0.0	4.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	172	0.0	2.6	-2.6	
7	220 kV	BUDHIPADAR-KORBA	2	45	64	0.0	0.1	-0.1	
						ER-WR	24.4	19.2	5.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	339	460	0.5	0.0	0.5	
2	HVDC	TALCHER-OLAR BIPOLE	2	0	1041	0.0	20.9	-20.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1828	0.0	26.2	-26.2	
4	400 kV	TALCHER-IC	2	718	0	12.5	0.0	12.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.5	47.0	-46.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	178	245	0.0	0.8	-0.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	473	147	4.7	0.0	4.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	29	81	0.0	0.4	-0.4	
						ER-NER	4.7	1.2	3.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	309	0.0	7.5	-7.5	
						NER-NR	0.0	7.5	-7.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4535	0.0	96.7	-96.7	
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	6.0	-6.0	
3	HVDC	MUNDRYA-MOHINDERGARH	2	0	1451	0.0	16.0	-16.0	
4	765 kV	GWALIOR-AGRA	2	0	2506	0.0	46.8	-46.8	
5	765 kV	GWALIOR-PHAGI	2	0	2404	0.0	49.2	-49.2	
6	765 kV	JABALPUR-ORAI	2	0	1337	0.0	50.6	-50.6	
7	765 kV	GWALIOR-ORAI	1	874	0	17.1	0.0	17.1	
8	765 kV	SATNA-ORAI	1	0	1157	0.0	25.1	-25.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	960	148	10.3	0.0	10.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3635	0.0	66.3	-66.3	
11	400 kV	ZERDA-KANKROLI	1	183	40	2.4	0.0	2.4	
12	400 kV	ZERDA-BHINMAL	1	315	119	2.5	0.0	2.5	
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHUALPUR	2	0	828	0.0	13.4	-13.4	
15	220 kV	BHANPURA-RANPUR	1	0	136	0.0	2.2	-2.2	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8	
17	220 kV	MEHGAON-AURAIYA	1	105	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	66	3	1.5	0.0	1.5	
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	56.0	374.1	-318.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	994	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	2149	0	45.1	0.0	45.1	
3	765 kV	SOLAPUR-RAICHUR	2	1858	705	22.5	0.0	22.5	
4	765 kV	WARDHA-NIZAMABAD	2	539	1501	1.7	11.4	-9.7	
5	400 kV	KOLHAPUR-KUDGI	2	1518	0	30.6	0.0	30.6	
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	81	1.5	0.0	1.5	
						WR-SR	125.4	11.4	114.0

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)	661	0	602	14.4
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1034	1006	1029	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	303	0	266	6.4
	NER	132kV GELEPHU-SALAKATI	25	9	18	0.4
	NER	132kV MOTANGA-RANGIA	56	21	41	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-33	-0.8
	ER	NEPAL IMPORT (FROM BIHAR)	-30	-1	-7	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	66	-40	11	0.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-714	-697	-702	-16.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-132	0	-112	-2.7