



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: 17th 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 16.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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: 17-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)	63520	54613	40896	22945	2982	184956
Peak Shortage (MW)	2992	0	0	0	0	2992
Energy Met (MU)	1541	1306	963	506	56	4372
Hydro Gen (MU)	360	44	166	139	31	739
Wind Gen (MU)	12	47	128	-	-	187
Solar Gen (MU)*	59.37	34.64	67.00	4.21	0.12	165
Energy Shortage (MU)	14.89	1.21	0.00	0.00	0.00	16.10
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70494	58093	46431	23372	3000	196246
Time Of Maximum Demand Met (From NLDC SCADA)	12:41	11:17	11:56	23:22	19:13	11:18

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	0.115	1.20	7.79	18.97	27.96	66.95	5.09

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	13032	0	298.7	168.4	-1.8	135	0.00
	Haryana	10624	0	231.7	169.8	0.6	294	2.29
	Rajasthan	13590	182	285.3	112.9	3.6	554	4.80
	Delhi	6337	0	124.5	110.9	-1.4	176	0.00
	UP	22642	350	474.9	205.5	-1.5	647	3.11
	Uttarakhand	2051	0	43.5	15.7	1.1	181	1.24
	HP	1453	0	31.5	-6.5	-0.3	187	0.00
	J&K(UT) & Ladakh(UT)	2403	250	45.0	18.4	1.1	457	3.45
	Chandigarh	304	0	5.9	5.8	0.1	37	0.00
	Chhattisgarh	4529	0	107.9	54.8	-0.8	293	1.21
WR	Gujarat	19061	0	409.9	183.3	1.3	768	0.00
	MP	10533	0	240.1	141.2	0.9	531	0.00
	Maharashtra	23392	0	493.3	149.0	3.8	517	0.00
	Goa	563	0	12.3	11.0	0.6	41	0.00
	DD	328	0	6.2	5.9	0.3	109	0.00
	DNH	854	0	18.3	17.7	0.7	78	0.00
	AMNSIL	846	0	17.8	7.2	-0.1	287	0.00
	Andhra Pradesh	9067	0	185.2	73.2	1.0	948	0.00
SR	Telangana	8854	0	184.3	53.8	-2.7	850	0.00
	Karnataka	10830	0	195.7	28.5	-2.0	391	0.00
	Kerala	3377	0	69.1	37.7	-1.9	219	0.00
	Tamil Nadu	14932	0	321.6	114.2	-1.0	496	0.00
	Puducherry	343	0	6.8	7.0	-0.2	35	0.00
	Bihar	6191	0	122.4	113.2	0.9	396	0.00
ER	DVC	3185	0	68.1	-32.7	2.0	407	0.00
	Jharkhand	1387	0	28.7	22.5	-1.0	170	0.00
	Odisha	5205	0	107.3	28.9	-1.2	533	0.00
	West Bengal	8733	0	178.6	60.9	0.4	767	0.00
	Sikkim	86	0	1.4	1.4	0.0	20	0.00
	Arunachal Pradesh	129	0	2.5	2.4	0.1	36	0.00
NER	Assam	1939	0	35.5	27.5	0.3	105	0.00
	Manipur	196	0	2.8	2.5	0.3	45	0.00
	Meghalaya	305	0	5.8	1.5	-0.1	87	0.00
	Mizoram	98	0	1.6	1.3	0.1	7	0.00
	Nagaland	130	0	2.6	2.3	-0.2	19	0.00
	Tripura	281	0	5.0	5.4	-0.4	33	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.3	-0.6	-14.9
Day Peak (MW)	2064.0	66.0	862.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	332.1	-177.3	-23.1	-124.1	-7.6	0.0
Actual(MU)	328.0	-162.4	-47.5	-118.1	-11.0	-11.0
O/D/U/D(MU)	-4.1	15.0	-24.4	6.0	-3.4	-11.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4382	14473	9252	1320	409	29836	47
State Sector	6760	14580	7905	4545	11	33801	53
Total	11142	29053	17157	5865	420	63637	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	719	1258	546	495	11	3029	68
Lignite	19	8	37	0	0	63	1
Hydro	360	44	166	139	31	739	17
Nuclear	19	32	35	0	0	87	2
Gas, Naptha & Diesel	23	62	10	0	29	124	3
RES (Wind, Solar, Biomass & Others)	92	82	225	4	0	403	9
Total	1232	1484	1020	638	72	4445	100
Share of RES in total generation (%)	7.45	5.50	22.09	0.66	0.17	9.07	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	38.23	10.60	41.85	22.41	43.50	27.65	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.058

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting: 17-Aug-2021		
						Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	1302	0.0	31.5	-31.5
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	108	432	0.0	4.4	-4.4
4	765 kV	SASARAM-FATEHPUR	1	42	335	0.0	4.0	-4.0
5	765 kV	GAYA-BALIA	1	0	400	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	171	0.0	3.1	-3.1
7	400 kV	PUSAULI-ALAHABAD	1	0	171	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	713	0.0	12.4	-12.4
9	400 kV	PATNA-BALIA	4	0	831	0.0	15.6	-15.6
10	400 kV	BHARSHARIFF-BALIA	2	3	220	0.0	3.5	-3.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	430	0.0	7.9	-7.9
12	400 kV	BHARSHARIFF-VARANASI	2	65	165	0.0	1.9	-1.9
13	220 kV	PUSAULI-SAHUPURI	1	0	106	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	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	4	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
						ER-NR	0.4	102.8
								-102.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	362	500	0.0	2.7	-2.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1182	0	18.2	0.0	18.2
3	765 kV	JHARSUGUDA-DURG	2	204	44	1.7	0.0	1.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	506	0.0	7.2	-7.2
5	400 kV	RANCHI-SIPAT	2	260	58	2.5	0.0	2.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	167	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	37	64	0.0	0.3	-0.3
						ER-WR	22.4	13.1
								9.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	467	0.0	10.4	-10.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1190	0.0	23.9	-23.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2032	0.0	33.9	-33.9
4	400 kV	TALCHER-I/C	2	632	0	9.6	0.0	9.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	68.2
								-68.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	148	176	0.0	0.4	-0.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	433	35	5.4	0.0	5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	32	54	0.0	0.1	-0.1
						ER-NER	5.4	0.5
								4.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	316	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	3533	0.0	53.9	-53.9
2	HVDC	VINDHYACHAL B/B	-	97	0	2.4	0.0	2.4
3	HVDC	MUNDRAMOHINDERGARH	2	0	1288	0.0	21.0	-21.0
4	765 kV	GWALIOR-AGRA	2	0	2194	0.0	37.2	-37.2
5	765 kV	GWALIOR-PHAGI	2	0	2395	0.0	46.9	-46.9
6	765 kV	JABALPUR-ORAI	2	0	1188	0.0	47.2	-47.2
7	765 kV	GWALIOR-ORAI	1	966	0	17.4	0.0	17.4
8	765 kV	SATNA-ORAI	1	0	1132	0.0	22.6	-22.6
9	765 kV	BANASKANTHA-CHITFORGARH	2	1401	0	18.5	0.0	18.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3018	0.0	56.6	-56.6
11	400 kV	ZERDA-KANKROLI	1	254	26	3.6	0.0	3.6
12	400 kV	ZERDA-BHINMAL	1	333	168	2.9	0.0	2.9
13	400 kV	VINDHYACHAL-RIHAND	1	963	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	0	685	0.0	11.2	-11.2
15	220 kV	BHANPURA-RANPUR	1	0	115	0.0	1.9	-1.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	128	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	87	2	1.6	0.0	1.6
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	69.6	299.9
								-230.3
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	39.5	0.0	39.5
3	765 kV	SOLAPUR-RAICHUR	2	1438	1100	7.4	0.0	7.4
4	765 kV	WARDHA-NIZAMABAD	2	0	1788	0.0	21.4	-21.4
5	400 kV	KOLHAPUR-KUDGI	2	1564	0	25.7	0.0	25.7
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	81	1.5	0.0	1.5
						WR-SR	98.2	21.4
								76.8

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 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	661	0	627	15.0	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1029	0	987	23.7	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	302	0	256	6.1	
	NER	132kV GELEPHU-SALAKATI	21	12	18	0.4	
	NER	132kV MOTANGA-RANGIA	51	37	42	1.0	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-27	-0.6	
	ER	NEPAL IMPORT (FROM BIHAR)	-46	0	-8	-0.2	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	48	0	10	0.3	
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-711	-315	-485	-11.7	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-151	0	-133	-3.2	