



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: 05th 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 04.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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: 05-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)	57567	49017	42693	22377	2933	174587
Peak Shortage (MW)	1270	0	20	0	0	1290
Energy Met (MU)	1307	1127	1073	475	58	4040
Hydro Gen (MU)	377	26	177	141	30	751
Wind Gen (MU)	34	214	231	-	-	479
Solar Gen (MU)*	48.18	22.39	94.24	4.38	0.28	169
Energy Shortage (MU)	3.97	0.00	0.03	0.00	0.00	4.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60488	49396	51334	22454	2945	178639
Time Of Maximum Demand Met (From NLDC SCADA)	22:27	09:54	09:59	21:17	19:27	09:54

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	0.042	0.00	2.16	6.43	8.60	77.85	13.55

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	10757	0	240.0	164.8	-1.5	116	0.00
	Haryana	8828	0	190.7	159.6	0.9	230	0.00
	Rajasthan	10056	0	213.5	63.2	1.3	538	0.00
	Delhi	5223	0	109.2	97.4	-1.9	77	0.01
	UP	21702	170	426.6	224.9	-1.5	416	0.00
	Uttarakhand	2030	0	45.7	16.8	1.2	209	0.51
	HP	1466	0	28.7	-7.8	-4.2	0	0.00
	J&K(UT) & Ladakh(UT)	2319	100	46.6	20.9	0.5	236	3.45
	Chandigarh	296	0	5.6	5.8	-0.2	24	0.00
	Chhattisgarh	4077	0	95.9	41.9	0.8	379	0.00
WR	Gujarat	15207	0	333.4	149.0	2.5	822	0.00
	MP	8305	0	177.4	85.8	-1.0	483	0.00
	Maharashtra	21337	0	462.8	129.4	1.9	514	0.00
	Goa	576	0	11.6	11.4	0.0	50	0.00
	DD	331	0	7.4	7.0	0.4	30	0.00
	DNH	838	0	19.4	19.1	0.3	78	0.00
	AMNSIL	871	0	19.1	7.0	-0.2	310	0.00
	Andhra Pradesh	10680	0	213.8	45.8	-0.6	485	0.00
	Telangana	11998	0	237.4	89.2	-0.5	517	0.00
	Karnataka	10448	0	192.8	20.8	-0.3	487	0.00
SR	Kerala	3340	0	70.1	28.7	-0.8	192	0.00
	Tamil Nadu	15737	0	349.1	132.1	-2.9	479	0.00
	Puducherry	452	0	9.3	9.3	0.1	103	0.03
	Bihar	6208	0	114.6	109.9	-1.3	371	0.00
	DVC	2981	0	65.0	-30.2	-0.7	306	0.00
	Jharkhand	1492	0	27.6	22.9	-2.3	145	0.00
	Odisha	5155	0	102.9	32.0	0.3	509	0.00
	West Bengal	7855	0	163.9	50.3	0.0	454	0.00
	Sikkim	81	0	1.3	1.5	-0.2	11	0.00
	NER	Arunachal Pradesh	135	0	2.4	2.3	0.1	51
Assam		1918	0	38.7	32.4	0.6	151	0.00
Manipur		205	0	2.5	2.5	0.0	24	0.00
Meghalaya		323	0	5.7	0.4	0.1	61	0.00
Mizoram		96	0	1.5	1.4	-0.1	14	0.00
Nagaland		133	0	2.4	2.3	-0.4	17	0.00
Tripura		283	0	5.0	5.7	-0.4	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.0	-1.3	-19.3
Day Peak (MW)	2045.0	-188.6	-834.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	344.0	-213.6	4.2	-130.5	-4.0	0.0
Actual(MU)	336.1	-215.8	0.1	-119.9	-5.3	-4.8
O/D/U/D(MU)	-7.9	-2.2	-4.0	10.6	-1.2	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7961	18320	10742	1280	434	38736	44
State Sector	14460	21913	8748	5045	11	50177	56
Total	22421	40232	19490	6325	445	88913	100

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	450	1008	461	479	12	2410	58
Lignite	25	9	34	0	0	68	2
Hydro	377	26	177	141	30	751	18
Nuclear	26	30	42	0	0	99	2
Gas, Naptha & Diesel	25	35	7	0	26	94	2
RES (Wind, Solar, Biomass & Others)	104	237	359	4	0	705	17
Total	1007	1345	1080	624	69	4125	100

Share of RES in total generation (%)	10.33	17.59	33.26	0.71	0.41	17.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	50.40	21.77	53.50	23.32	44.03	37.68

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.085

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: 05-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	24.0	-24.0	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	58	336	0.0	3.4	-3.4	
4	765 kV	SASARAML-FATEHPUR	1	67	119	0.0	0.6	-0.6	
5	765 kV	GAYA-BALIA	1	0	545	0.0	9.1	-9.1	
6	400 kV	PUSAULLY-VARANASI	1	0	162	0.0	2.8	-2.8	
7	400 kV	PUSAULLI-ALLAHABAD	1	0	165	0.0	2.8	-2.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	743	0.0	14.4	-14.4	
9	400 kV	PATNA-BALIA	4	0	996	0.0	17.8	-17.8	
10	400 kV	BIHARSHARIFF-BALIA	2	0	303	0.0	4.6	-4.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	463	0.0	8.6	-8.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	209	0.0	2.5	-2.5	
13	220 kV	PUSAULLI-SAHUPURI	1	0	122	0.0	2.2	-2.2	
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	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	98.9	-98.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	969	115	9.0	0.0	9.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1165	0	19.7	0.0	19.7	
3	765 kV	JHARSUGUDA-DURG	2	127	69	1.2	0.0	1.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	440	0.0	4.1	-4.1	
5	400 kV	RANCHI-SIPAT	2	259	54	5.8	0.0	5.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	107	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	2	117	0	1.8	0.0	1.8	
						ER-WR	37.6	5.5	32.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	499	0.0	11.2	-11.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1786	0.0	38.9	-38.9	
3	765 kV	ANGUL-SIRSAKULAM	2	0	2401	0.0	34.5	-34.5	
4	400 kV	TALCHER-IC	2	170	763	0.0	7.2	-7.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	84.5	-84.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	17	239	0.0	3.1	-3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	112	254	0.0	1.4	-1.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	71	0.0	0.9	-0.9	
						ER-NER	0.0	5.4	-5.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	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	3537	0.0	57.8	-57.8	
2	HVDC	VINDHYACHAL B/B	-	244	52	3.5	0.4	3.2	
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	1915	0.0	29.7	-29.7	
4	765 kV	GWALIOR-AGRA	2	0	2369	0.0	41.2	-41.2	
5	765 kV	GWALIOR-PHAGI	2	0	1636	0.0	27.1	-27.1	
6	765 kV	JABALPUR-ORAI	2	0	1066	0.0	36.6	-36.6	
7	765 kV	GWALIOR-ORAI	1	674	0	12.2	0.0	12.2	
8	765 kV	SATNA-ORAI	1	0	868	0.0	18.4	-18.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	587	237	2.7	0.0	2.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3166	0.0	59.2	-59.2	
11	400 kV	ZERDA-KANKROLI	1	200	0	2.5	0.0	2.5	
12	400 kV	ZERDA-BHINMAL	1	313	0	4.1	0.0	4.1	
13	400 kV	VINDHYACHAL-RIHAND	1	970	0	22.0	0.0	22.0	
14	400 kV	RAPP-SHUALPUR	2	0	599	0.0	7.4	-7.4	
15	220 kV	BHANPURA-RANPUR	1	0	129	0.0	2.4	-2.4	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3	
17	220 kV	MEHGAON-AURAIYA	1	74	16	0.2	0.3	-0.1	
18	220 kV	MALANPUR-AURAIYA	1	49	34	0.4	0.1	0.3	
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	47.6	282.8	-235.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	297	0	7.4	0.0	7.4	
2	HVDC	RAIGARH-PUGALUR	2	970	0	23.7	0.0	23.7	
3	765 kV	SOLAPUR-RAICHUR	2	1802	618	21.2	0.0	21.2	
4	765 kV	WARDHA-NIZAMABAD	2	38	2292	0.0	22.9	-22.9	
5	400 kV	KOLHAPUR-KUDGI	2	1225	0	20.5	0.0	20.5	
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	74.3	22.9	51.4

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)	638	0	612	14.7
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1034	1017	1020	24.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	288	0	261	6.3
	NER	132kV GELEPHU-SALAKATI	26	16	21	0.5
	NER	132kV MOTANGA-RANGIA	60	34	46	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-37	-0.9
	ER	NEPAL IMPORT (FROM BIHAR)	-69	-5	-18	-0.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-42	0	-1	0.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-694	-687	-687	-16.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-118	-2.8