



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: 06th 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 05.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	59013	50686	42797	23060	2904	178460
Peak Shortage (MW)	1340	0	0	0	0	1340
Energy Met (MU)	1344	1171	1086	495	60	4156
Hydro Gen (MU)	377	28	186	141	27	759
Wind Gen (MU)	29	177	228	-	-	434
Solar Gen (MU)*	53.37	24.76	86.60	4.36	0.26	169
Energy Shortage (MU)	7.52	0.00	0.00	0.00	0.00	7.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60871	51050	52308	23223	2963	184310
Time Of Maximum Demand Met (From NLDC SCADA)	12:19	10:25	10:42	20:49	19:14	10:26

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	0.034	0.00	0.34	6.32	6.65	80.56	12.79

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	10991	0	245.4	158.1	-1.1	45	0.00
	Haryana	9160	0	196.5	167.1	0.1	292	0.00
	Rajasthan	10062	0	224.8	62.9	1.4	394	0.00
	Delhi	5422	0	115.0	101.0	-0.7	190	0.00
	UP	21064	1500	437.7	220.9	-0.1	661	3.99
	Uttarakhand	1978	0	44.6	16.6	0.3	116	0.08
	HP	1485	0	28.5	-7.8	-4.0	77	0.00
	J&K(UT) & Ladakh(UT)	2210	250	45.4	21.5	-1.5	236	3.45
WR	Chandigarh	285	0	5.8	5.8	0.0	35	0.00
	Chhattisgarh	4318	0	102.1	45.0	-0.7	300	0.00
	Gujarat	16239	0	357.1	161.8	2.6	651	0.00
	MP	8446	0	182.7	97.8	-0.9	552	0.00
	Maharashtra	21358	0	472.2	137.6	2.4	627	0.00
	Goa	565	0	11.5	11.5	-0.1	56	0.00
	DD	328	0	7.4	7.2	0.2	24	0.00
	DNH	844	0	19.5	19.3	0.2	94	0.00
SR	AMNSIL	808	0	18.3	8.5	-0.3	237	0.00
	Andhra Pradesh	10687	0	219.5	50.4	1.3	764	0.00
	Telangana	12414	0	240.5	89.5	0.9	617	0.00
	Karnataka	10726	0	194.8	12.2	0.6	918	0.00
	Kerala	3288	0	70.3	29.6	-0.9	257	0.00
	Tamil Nadu	16029	0	352.4	131.9	-1.9	641	0.00
	Puducherry	400	0	8.9	8.6	0.3	71	0.00
	ER	Bihar	6205	0	126.0	118.1	1.4	358
DVC		3046	0	65.9	-29.8	-0.8	244	0.00
Jharkhand		1482	0	29.2	23.6	-1.6	154	0.00
Odisha		5382	0	107.1	33.0	0.8	604	0.00
West Bengal		8255	0	165.7	52.0	-0.2	255	0.00
Sikkim		83	0	1.4	1.5	-0.2	12	0.00
NER	Arunachal Pradesh	146	0	2.1	2.4	-0.3	43	0.00
	Assam	1979	0	39.7	33.6	1.2	168	0.00
	Manipur	199	0	2.8	2.5	0.3	15	0.00
	Meghalaya	315	0	6.2	1.2	0.6	78	0.00
	Mizoram	100	0	1.5	1.4	-0.1	18	0.00
	Nagaland	134	0	2.5	2.3	-0.1	18	0.00
	Tripura	247	0	5.1	5.6	-0.1	41	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	45.3	-3.4	-19.5
Day Peak (MW)	2057.0	-465.1	-827.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	332.7	-218.1	8.9	-121.9	-1.7	0.0
Actual(MU)	333.4	-225.5	11.1	-122.8	-2.2	-6.1
O/D/U/D(MU)	0.7	-7.4	2.2	-1.0	-0.6	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7982	16860	10742	1070	409	37062	43
State Sector	13440	21023	8748	5705	11	48927	57
Total	21422	37882	19490	6775	420	85989	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	499	1097	466	486	13	2561	60
Lignite	24	10	39	0	0	73	2
Hydro	377	28	186	141	27	759	18
Nuclear	26	32	41	0	0	100	2
Gas, Naptha & Diesel	23	37	8	0	27	95	2
RES (Wind, Solar, Biomass & Others)	105	202	348	4	0	660	16
Total	1054	1407	1088	632	67	4248	100

Share of RES in total generation (%)	10.00	14.34	31.96	0.69	0.39	15.53
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	48.24	18.62	52.87	23.05	40.51	35.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.067

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: 06-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	24.2	-24.2	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	263	439	0.0	3.5	-3.5	
4	765 kV	SASARAM-FATEHPUR	1	34	220	0.0	2.2	-2.2	
5	765 kV	GAYA-BALIA	1	0	609	0.0	9.5	-9.5	
6	400 kV	PUSAULI-VARANASI	1	0	146	0.0	2.9	-2.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	157	0.0	3.1	-3.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	740	0.0	13.2	-13.2	
9	400 kV	PATNA-BALIA	4	0	1039	0.0	18.9	-18.9	
10	400 kV	BIHARSHARIF-BALIA	2	0	271	0.0	3.8	-3.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	456	0.0	8.3	-8.3	
12	400 kV	BIHARSHARIF-VARANASI	2	58	198	0.0	2.5	-2.5	
13	220 kV	PUSAULI-SAHUPURI	1	0	138	0.0	2.3	-2.3	
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	100.5	-99.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	695	0	9.5	0.0	9.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1246	0	20.1	0.0	20.1	
3	765 kV	JHARSUGUDA-DURG	2	253	39	1.8	0.0	1.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	279	0.0	4.8	-4.8	
5	400 kV	RANCHI-SIPAT	2	280	23	7.5	0.0	7.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	109	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	116	0	1.8	0.0	1.8	
						ER-WR	40.7	6.3	34.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	497	0.0	9.7	-9.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1737	0.0	30.5	-30.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2251	0.0	36.8	-36.8	
4	400 kV	TALCHER-IC	2	179	835	0.0	7.0	-7.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	77.1	-77.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	6	374	0.0	4.7	-4.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	103	287	0.0	2.7	-2.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	84	0.0	1.1	-1.1	
						ER-NER	0.0	8.4	-8.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	12.1	-12.1	
						NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3534	0.0	59.1	-59.1	
2	HVDC	VINDHYACHAL B/B	-	244	0	5.3	0.0	5.3	
3	HVDC	MUNDRYA-MOHINDERGARH	2	0	1916	0.0	38.6	-38.6	
4	765 kV	GWALIOR-AGRA	2	0	2203	0.0	40.6	-40.6	
5	765 kV	GWALIOR-PHAGI	2	0	1663	0.0	29.7	-29.7	
6	765 kV	JABALPUR-ORAI	2	0	1062	0.0	40.6	-40.6	
7	765 kV	GWALIOR-ORAI	1	692	0	13.5	0.0	13.5	
8	765 kV	SATNA-ORAI	1	0	813	0.0	17.5	-17.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	1095	0	11.5	0.0	11.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2890	0.0	54.8	-54.8	
11	400 kV	ZERDA-KANKROLI	1	276	0	3.9	0.0	3.9	
12	400 kV	ZERDA-BHINMAL	1	411	35	5.6	0.0	5.6	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	22.3	0.0	22.3	
14	400 kV	RAPP-SHUALPUR	2	0	624	0.0	8.5	-8.5	
15	220 kV	BHANPURA-RANPUR	1	0	124	0.0	2.1	-2.1	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0	
17	220 kV	MEHGAON-AURAIYA	1	84	18	0.2	0.2	0.0	
18	220 kV	MALANPUR-AURAIYA	1	55	36	0.6	0.0	0.5	
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	62.8	293.6	-230.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	297	0	7.2	0.0	7.2	
2	HVDC	RAIGARH-PUGALUR	2	1165	0	25.3	0.0	25.3	
3	765 kV	SOLAPUR-RAICHUR	2	1299	487	14.7	0.0	14.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2231	0.0	27.5	-27.5	
5	400 kV	KOLHAPUR-KUDGI	2	1230	0	20.4	0.0	20.4	
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	XELDEM-AMBEWADI	1	0	80	1.5	0.0	1.5	
						WR-SR	69.0	27.5	41.5

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 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	636	0	531	12.7
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1027	1013	1027	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	292	0	263	6.3
	NER	132kV GELEPHU-SALAKATI	32	15	20	0.5
	NER	132kV MOTANGA-RANGIA	70	0	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-40	-1.0
	ER	NEPAL IMPORT (FROM BIHAR)	-259	-1	-87	-2.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-133	0	-15	-0.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-687	0	-683	-16.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-128	-3.1