National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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:03rd 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., डोंगतिएह, 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 02.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-अगस्त-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 02nd 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:** **03-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)	55235	45978	41851	22931	2886	168881
Peak Shortage (MW)	1595	0	0	0	0	1595
Energy Met (MU)	1228	1051	1038	480	55	3852
Hydro Gen (MU)	376	29	163	142	34	744
Wind Gen (MU)	42	236	226	-	-	504
Solar Gen (MU)*	41.51	14.93	98.57	5.09	0.24	160
Energy Shortage (MU)	8.19	0.00	0.00	0.00	0.00	8.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58178	46433	50532	23042	2964	172189
Time Of Maximum Demand Met (From NLDC SCADA)	22:25	09:54	11:41	20:00	19:12	11:04

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	0.044	0.14	1.86	8.68	10.68	82.12	7.20

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	10818	0	244.4	167.9	-1.0	69	0.00
	Haryana	8444	0	172.7	148.0	1.4	319	0.00
	Rajasthan	9350	0	206.7	65.7	0.0	595	0.16
	Delhi	4866	0	104.8	94.1	-1.7	93	0.04
	UP	20250	0	377.7	206.0	1.1	612	3.87
	Uttarakhand	1943	0	42.6	15.3	0.5	95	0.67
	HP	1492	0	28.5	-9.1	-3.7	61	0.00
	J&K(UT) & Ladakh(UT)	2219	100	44.8	20.3	-0.1	969	3.45
	Chandigarh	301	0	6.0	6.4	-0.3	32	0.00
WR	Chhattisgarh	3772	0	87.4	35.8	0.6	169	0.00
	Gujarat	14593	0	315.0	149.8	2.9	785	0.00
	MP	7416	0	159.9	62.5	-0.6	342	0.00
	Maharashtra	20052	0	434.6	124.7	-1.1	550	0.00
	Goa	567	0	12.1	10.9	0.5	45	0.00
	DD	315	0	6.8	6.5	0.3	23	0.00
	DNH	799	0	18.4	18.3	0.1	90	0.00
	AMNSIL	808	0	16.8	6.0	-0.1	302	0.00
SR	Andhra Pradesh	10362	0	205.9	44.3	0.0	707	0.00
	Telangana	11638	0	225.4	86.8	0.8	544	0.00
	Karnataka	10443	0	190.1	28.5	-1.2	407	0.00
	Kerala	3392	0	70.0	29.3	-1.0	201	0.00
	Tamil Nadu	15596	0	337.3	138.1	-1.4	672	0.00
	Puducherry	429	0	8.9	9.0	0.0	25	0.00
ER	Bihar	6130	0	115.5	111.5	-1.6	485	0.00
	DVC	2954	0	63.6	-29.2	-0.8	297	0.00
	Jharkhand	1616	0	28.1	24.0	-2.5	36	0.00
	Odisha	5109	0	102.4	34.0	-0.4	298	0.00
	West Bengal	8403	0	168.8	61.8	0.9	398	0.00
	Sikkim	85	0	1.3	1.5	-0.2	8	0.00
NER	Arunachal Pradesh	138	0	2.3	2.3	0.0	30	0.00
	Assam	1876	0	36.3	29.2	0.5	158	0.00
	Manipur	191	0	2.5	2.4	0.0	26	0.00
	Meghalaya	312	0	5.6	1.0	-0.2	25	0.00
	Mizoram	96	0	1.6	1.5	-0.1	11	0.00
	Nagaland	143	0	2.4	2.3	-0.4	13	0.00
	Tripura	273	0	4.9	5.7	-0.1	43	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.5	-1.9	-20.1
Day Peak (MW)	2088.0	-343.6	-867.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	313.8	-219.5	22.7	-110.8	-6.2	0.0
Actual(MU)	309.0	-220.3	20.8	-111.1	-7.5	-9.0
O/D/U/D(MU)	-4.8	-0.8	-1.9	-0.3	-1.3	-9.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8392	19003	10342	1010	680	39426	42
State Sector	14430	24300	10098	5045	47	53919	58
Total	22822	43302	20440	6055	726	93345	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	409	938	418	472	7	2244	57
Lignite	24	8	35	0	0	66	2
Hydro	376	29	163	142	34	744	19
Nuclear	26	28	42	0	0	96	2
Gas, Naptha & Diesel	21	32	10	0	28	89	2
RES (Wind, Solar, Biomass & Others)	100	251	355	5	0	711	18
Total	955	1285	1021	619	69	3950	100

Share of RES in total generation (%)	10.44	19.53	34.75	0.83	0.35	18.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	52.58	23.96	54.77	23.75	50.22	39.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.087

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: 03-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	701	0.0	17.5	-17.5
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	214	380	0.0	2.9	-2.9
4	765 kV	SASARAM-FATEHPUR	1	23	236	0.0	2.3	-2.3
5	765 kV	GAYA-BALIA	1	0	550	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	158	0.0	3.2	-3.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	143	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	800	0.0	15.0	-15.0
9	400 kV	PATNA-BALIA	4	0	1000	0.0	18.7	-18.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	324	0.0	4.6	-4.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	475	0.0	8.8	-8.8
12	400 kV	BIHARSHARIFF-VARANASI	2	61	185	0.0	1.2	-1.2
13	220 kV	PUSAULI-SAHUPURI	1	0	119	0.0	1.9	-1.9
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	93.1	-92.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	964	320	10.0	0.0	10.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1148	0	17.0	0.0	17.0
3	765 kV	JHARSUGUDA-DURG	2	94	73	0.6	0.0	0.6
4	400 kV	JHARSUGUDA-RAIGARH	4	31	312	0.0	2.9	-2.9
5	400 kV	RANCHI-SIPAT	2	269	60	3.6	0.0	3.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	96	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	148	0	2.3	0.0	2.3
					ER-WR	33.5	4.1	29.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	505	0.0	11.1	-11.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1646	0.0	32.5	-32.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2439	0.0	39.7	-39.7
4	400 kV	TALCHER-I/C	2	404	524	0.0	2.5	-2.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	83.2	-83.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	186	256	0.0	0.1	-0.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	285	378	1.1	0.0	1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	8	82	0.0	0.6	-0.6
					ER-NER	1.1	0.7	0.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	505	0.0	8.5	-8.5
					NER-NR	0.0	8.5	-8.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3522	0.0	40.0	-40.0
2	HVDC	VINDHYACHAL B/B	-	0	52	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	32.7	-32.7
4	765 kV	GWALIOR-AGRA	2	0	2053	0.0	37.2	-37.2
5	765 kV	GWALIOR-PHAGI	2	0	1834	0.0	31.5	-31.5
6	765 kV	JABALPUR-ORAI	2	0	948	0.0	32.5	-32.5
7	765 kV	GWALIOR-ORAI	1	830	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	897	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITORGARH	2	533	613	0.0	1.9	-1.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2849	0.0	53.7	-53.7
11	400 kV	ZERDA-KANKROLI	1	239	11	2.1	0.0	2.1
12	400 kV	ZERDA -BHINMAL	1	403	28	4.7	0.0	4.7
13	400 kV	VINDHYACHAL -RIHAND	1	930	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUJALPUR	2	0	555	0.0	6.6	-6.6
15	220 kV	BHANPURA-RANPUR	1	0	131	0.0	2.2	-2.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
17	220 kV	MEHGAON-AURAIYA	1	59	16	0.1	0.3	-0.2
18	220 kV	MALANPUR-AURAIYA	1	40	33	0.3	0.1	0.2
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	41.4	260.7	-219.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.4	0.0	7.4
2	HVDC	RAIGARH-PUGALUR	2	1452	0	26.8	0.0	26.8
3	765 kV	SOLAPUR-RAICHUR	2	1390	1190	7.9	0.0	7.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2578	0.0	30.5	-30.5
5	400 kV	KOLHAPUR-KUDGI	2	1144	0	17.1	0.0	17.1
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	74	1.5	0.0	1.5
					WR-SR	60.6	30.5	30.1

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 MANGDECHU HEP 4*180MW)	647	0	638	15.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1050	0	1040	25.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	301	0	256	6.2
	NER	132kV GELEPHU-SALAKATI	24	7	15	0.4
	NER	132kV MOTANGA-RANGIA	65	1	31	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-56	0	-25	-0.6
	ER	NEPAL IMPORT (FROM BIHAR)	-195	-1	-46	-1.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-93	54	-9	-0.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-716	-703	-707	-17.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-151	0	-129	-3.1