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:18th 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 17.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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:** **18-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)	66450	54555	40790	22264	2915	186974
Peak Shortage (MW)	2164	191	0	0	0	2355
Energy Met (MU)	1608	1306	953	503	56	4425
Hydro Gen (MU)	353	43	146	141	30	713
Wind Gen (MU)	14	53	127	-	-	194
Solar Gen (MU)*	60.45	31.03	61.05	3.97	0.17	157
Energy Shortage (MU)	11.12	1.80	0.00	0.00	0.00	12.92
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71855	57479	45198	22850	2948	195055
Time Of Maximum Demand Met (From NLDC SCADA)	11:41	09:34	11:49	00:13	18:46	11:47

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	0.051	0.30	1.02	15.09	16.41	79.68	3.91

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	12846	0	300.4	168.8	-1.6	89	0.00
	Haryana	11124	0	245.1	183.3	0.5	178	0.98
	Rajasthan	14151	0	298.6	120.6	2.5	774	2.69
	Delhi	6513	0	133.9	120.2	-1.4	214	0.00
	UP	22841	690	494.8	206.7	2.2	933	1.77
	Uttarakhand	2139	0	45.6	14.8	3.0	328	2.22
	HP	1550	0	33.8	-4.6	1.1	294	0.01
	J&K(UT) & Ladakh(UT)	2448	250	49.1	23.3	0.5	117	3.45
	Chandigarh	329	0	6.4	6.2	0.2	60	0.00
WR	Chhattisgarh	4526	25	106.5	54.3	0.8	300	1.80
	Gujarat	19431	0	432.0	190.4	0.5	738	0.00
	MP	10628	0	234.2	141.8	1.0	636	0.00
	Maharashtra	22182	0	474.8	142.0	0.1	492	0.00
	Goa	582	0	12.8	11.4	0.7	44	0.00
	DD	341	0	7.5	7.1	0.4	108	0.00
	DNH	850	0	19.9	19.3	0.6	94	0.00
	AMNSIL	874	0	17.9	8.3	-0.5	301	0.00
SR	Andhra Pradesh	8434	0	179.8	74.3	0.8	918	0.00
	Telangana	8533	0	173.5	37.6	-1.0	656	0.00
	Karnataka	10137	0	191.7	25.6	-3.4	631	0.00
	Kerala	3469	0	71.2	36.8	-1.8	237	0.00
	Tamil Nadu	15232	0	329.1	131.4	-3.7	475	0.00
	Puducherry	388	0	7.9	8.1	-0.3	54	0.00
ER	Bihar	6067	0	119.9	112.0	1.3	540	0.00
	DVC	3150	0	68.8	-32.9	3.0	375	0.00
	Jharkhand	1357	0	27.8	21.4	-0.9	176	0.00
	Odisha	5256	0	108.1	27.9	-0.1	518	0.00
	West Bengal	8486	0	176.9	65.0	0.4	509	0.00
	Sikkim	88	0	1.4	1.5	0.0	27	0.00
NER	Arunachal Pradesh	134	0	2.4	2.4	0.1	35	0.00
	Assam	1900	0	35.6	28.2	0.1	134	0.00
	Manipur	188	0	2.6	2.5	0.1	34	0.00
	Meghalaya	318	0	6.0	1.1	-0.1	48	0.00
	Mizoram	104	0	1.5	1.2	0.1	17	0.00
	Nagaland	136	0	2.6	2.3	-0.1	24	0.00
	Tripura	270	0	4.9	5.1	-0.4	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.8	-3.9	-19.6
Day Peak (MW)	2134.0	-141.7	-856.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	370.6	-188.1	-55.8	-114.2	-12.5	0.0
Actual(MU)	372.3	-185.0	-71.5	-107.8	-14.4	-6.4
O/D/U/D(MU)	1.8	3.0	-15.7	6.4	-1.9	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4214	14146	9502	1520	409	29790	48
State Sector	6965	13887	6575	4605	11	32043	52
Total	11179	28033	16077	6125	420	61833	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	742	1260	599	483	17	3100	68
Lignite	22	7	33	0	0	62	1
Hydro	353	43	146	141	30	713	16
Nuclear	22	32	41	0	0	95	2
Gas, Naptha & Diesel	30	83	11	0	28	152	3
RES (Wind, Solar, Biomass & Others)	95	84	224	4	0	406	9
Total	1264	1509	1052	628	76	4529	100

Share of RES in total generation (%)	7.48	5.56	21.24	0.64	0.23	8.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.17	10.57	38.94	23.10	40.35	26.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.061

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: 18-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	33.6	-33.6
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	145	488	0.0	5.2	-5.2
4	765 kV	SASARAM-FATEHPUR	1	0	325	0.0	4.4	-4.4
5	765 kV	GAYA-BALIA	1	0	438	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	1	0	200	0.0	3.7	-3.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	132	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	648	0.0	12.0	-12.0
9	400 kV	PATNA-BALIA	4	0	778	0.0	15.5	-15.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	244	0.0	3.0	-3.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	413	0.0	7.6	-7.6
12	400 kV	BIHARSHARIFF-VARANASI	2	63	156	0.0	1.1	-1.1
13	220 kV	PUSAULI-SAHUPURI	1	12	96	0.0	1.5	-1.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
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	0.5	103.7	-103.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	193	949	0.0	8.7	-8.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1281	0	19.1	0.0	19.1
3	765 kV	JHARSUGUDA-DURG	2	140	110	0.5	0.0	0.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	406	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	300	66	3.5	0.0	3.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	164	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	47	55	0.0	0.1	-0.1
					ER-WR	23.1	16.6	6.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	466	0.0	10.4	-10.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1033	0.0	19.4	-19.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2113	0.0	27.9	-27.9
4	400 kV	TALCHER-I/C	2	627	0	14.0	0.0	14.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	57.7	-57.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	221	123	1.1	0.4	0.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	564	0	7.6	0.0	7.6
3	220 kV	ALIPURDUAR-SALAKATI	2	56	44	0.2	0.0	0.2
					ER-NER	8.9	0.4	8.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	309	0.0	7.4	-7.4
					NER-NR	0.0	7.4	-7.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4037	0.0	83.7	-83.7
2	HVDC	VINDHYACHAL B/B	-	23	254	0.4	2.2	-1.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1451	0.0	15.5	-15.5
4	765 kV	GWALIOR-AGRA	2	0	2400	0.0	42.4	-42.4
5	765 kV	GWALIOR-PHAGI	2	0	2409	0.0	50.7	-50.7
6	765 kV	JABALPUR-ORAI	2	0	1283	0.0	46.9	-46.9
7	765 kV	GWALIOR-ORAI	1	884	0	17.1	0.0	17.1
8	765 kV	SATNA-ORAI	1	0	1177	0.0	25.7	-25.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1471	45	16.1	0.0	16.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3307	0.0	50.3	-50.3
11	400 kV	ZERDA-KANKROLI	1	266	11	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	301	119	2.6	0.0	2.6
13	400 kV	VINDHYACHAL -RIHAND	1	970	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	0	747	0.0	13.1	-13.1
15	220 kV	BHANPURA-RANPUR	1	0	118	0.0	2.1	-2.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	118	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	79	0	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	63.2	334.2	-271.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	24.4	0.0	24.4
2	HVDC	RAIGARH-PUGALUR	2	2152	0	44.9	0.0	44.9
3	765 kV	SOLAPUR-RAICHUR	2	1412	1138	9.6	0.0	9.6
4	765 kV	WARDHA-NIZAMABAD	2	267	1930	0.1	16.6	-16.4
5	400 kV	KOLHAPUR-KUDGI	2	1480	0	28.2	0.0	28.2
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	1.6	0.0	1.6
					WR-SR	108.7	16.6	92.1

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)	680	638	655	15.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1056	998	1028	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	324	0	255	6.1
	NER	132kV GELEPHU-SALAKATI	19	12	16	0.4
	NER	132kV MOTANGA-RANGIA	54	30	38	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-58	0	-31	-0.7
	ER	NEPAL IMPORT (FROM BIHAR)	-23	-1	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-61	0	-128	-3.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-713	0	-689	-16.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-143	0	-128	-3.1