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:02nd 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 01.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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:** **02-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)	51234	43569	38256	21756	2809	157624
Peak Shortage (MW)	1113	0	0	0	0	1113
Energy Met (MU)	1129	1013	968	459	53	3622
Hydro Gen (MU)	369	24	157	137	32	718
Wind Gen (MU)	47	251	217	-	-	515
Solar Gen (MU)*	37.36	16.69	87.97	4.35	0.15	147
Energy Shortage (MU)	5.99	0.00	0.00	0.00	0.00	5.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54454	43724	45356	22132	2853	157723
Time Of Maximum Demand Met (From NLDC SCADA)	22:27	09:56	10:00	20:59	19:11	20:01

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	0.032	0.00	0.00	4.09	4.09	75.50	20.41

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	10179	0	231.6	166.9	-0.8	136	0.00
	Haryana	7786	0	154.9	133.8	-2.1	263	0.00
	Rajasthan	8881	0	201.1	60.2	1.0	822	0.12
	Delhi	4819	0	96.4	88.5	-1.8	105	0.00
	UP	18627	0	329.0	179.2	-1.5	565	2.35
	Uttarakhand	1788	0	40.0	12.6	-0.3	98	0.00
	HP	1272	0	26.4	-9.3	-4.3	0	0.07
	J&K(UT) & Ladakh(UT)	2218	250	43.6	20.0	-1.1	115	3.45
	Chandigarh	280	0	5.6	6.0	-0.4	22	0.00
WR	Chhattisgarh	3557	0	81.7	32.1	0.3	237	0.00
	Gujarat	13418	0	301.0	125.6	2.0	638	0.00
	MP	7816	0	167.5	64.5	-1.9	413	0.00
	Maharashtra	18503	0	407.8	124.6	-0.8	633	0.00
	Goa	510	0	11.0	9.9	0.4	50	0.00
	DD	290	0	6.3	6.0	0.3	52	0.00
	DNH	811	0	18.9	18.2	0.7	31	0.00
	AMNSIL	841	0	18.3	6.6	-0.1	263	0.00
SR	Andhra Pradesh	9363	0	194.4	39.7	-0.3	569	0.00
	Telangana	11131	0	214.0	84.3	0.8	629	0.00
	Karnataka	9057	0	170.1	20.6	-2.5	493	0.00
	Kerala	3122	0	63.9	22.5	-1.0	167	0.00
	Tamil Nadu	13822	0	316.8	129.3	-0.7	466	0.00
	Puducherry	410	0	8.3	8.4	-0.2	38	0.00
ER	Bihar	6132	0	111.2	105.5	-0.3	544	0.00
	DVC	2903	0	62.4	-25.3	0.0	288	0.00
	Jharkhand	1504	0	26.7	21.7	-1.9	98	0.00
	Odisha	4865	0	99.9	37.1	-1.6	337	0.00
	West Bengal	7971	0	158.2	62.3	0.3	383	0.00
	Sikkim	60	0	1.1	1.2	-0.2	9	0.00
NER	Arunachal Pradesh	139	0	2.3	2.6	-0.3	41	0.00
	Assam	1811	0	34.3	27.1	0.4	136	0.00
	Manipur	180	0	2.5	2.6	-0.1	26	0.00
	Meghalaya	291	0	5.5	1.1	-0.1	21	0.00
	Mizoram	94	0	1.6	1.5	-0.1	18	0.00
	Nagaland	121	0	2.4	2.2	-0.3	8	0.00
	Tripura	277	0	4.6	5.2	-0.1	42	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.6	-2.1	-19.9
Day Peak (MW)	2055.0	-204.1	-864.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	273.4	-210.1	23.8	-81.5	-5.6	0.0
Actual(MU)	262.2	-198.9	22.5	-83.9	-7.4	-5.5
O/D/U/D(MU)	-11.1	11.2	-1.3	-2.4	-1.8	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8282	19443	10342	857	659	39582	41
State Sector	16420	22965	11188	6205	47	56824	59
Total	24702	42407	21530	7062	705	96406	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	364	867	372	420	6	2030	55
Lignite	22	8	29	0	0	59	2
Hydro	369	24	157	137	32	718	19
Nuclear	26	33	42	0	0	101	3
Gas, Naptha & Diesel	19	30	12	0	28	88	2
RES (Wind, Solar, Biomass & Others)	106	268	335	4	0	714	19
Total	905	1229	948	561	66	3710	100

Share of RES in total generation (%)	11.67	21.81	35.38	0.77	0.23	19.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	55.28	26.40	56.38	25.17	48.24	41.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.068
Based on State Max Demands	1.109

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: 02-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	18.9	-18.9
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	224	233	0.0	0.0	0.0
4	765 kV	SASARAM-FATEHPUR	1	0	224	0.0	3.1	-3.1
5	765 kV	GAYA-BALIA	1	0	521	0.0	5.8	-5.8
6	400 kV	PUSAULI-VARANASI	1	0	156	0.0	3.1	-3.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	143	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	724	0.0	10.5	-10.5
9	400 kV	PATNA-BALIA	4	0	959	0.0	14.1	-14.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	269	0.0	3.1	-3.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	415	0.0	6.2	-6.2
12	400 kV	BIHARSHARIFF-VARANASI	2	102	143	0.1	0.0	0.1
13	220 kV	PUSAULI-SAHUPURI	1	0	110	0.0	1.6	-1.6
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	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	75.0	-74.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	974	44	11.8	0.0	11.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1158	0	18.5	0.0	18.5
3	765 kV	JHARSUGUDA-DURG	2	172	79	1.5	0.0	1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	88	337	0.0	2.5	-2.5
5	400 kV	RANCHI-SIPAT	2	268	36	3.7	0.0	3.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	99	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	140	0	2.1	0.0	2.1
					ER-WR	37.7	3.6	34.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	636	0.0	10.2	-10.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1342	0.0	25.7	-25.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2411	0.0	35.1	-35.1
4	400 kV	TALCHER-I/C	2	583	587	0.0	0.3	-0.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	70.9	-70.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	80	197	0.0	1.2	-1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	135	259	0.0	0.3	-0.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	85	0.0	0.8	-0.8
					ER-NER	0.0	2.3	-2.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	11.2	-11.2
					NER-NR	0.0	11.2	-11.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2516	0.0	22.9	-22.9
2	HVDC	VINDHYACHAL B/B	-	0	52	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	977	0.0	13.4	-13.4
4	765 kV	GWALIOR-AGRA	2	0	2059	0.0	34.0	-34.0
5	765 kV	GWALIOR-PHAGI	2	0	1606	0.0	25.7	-25.7
6	765 kV	JABALPUR-ORAI	2	0	936	0.0	29.8	-29.8
7	765 kV	GWALIOR-ORAI	1	631	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	881	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	0	896	0.0	13.9	-13.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2938	0.0	47.8	-47.8
11	400 kV	ZERDA-KANKROLI	1	104	96	0.0	0.3	-0.3
12	400 kV	ZERDA -BHINMAL	1	176	92	1.6	0.0	1.6
13	400 kV	VINDHYACHAL -RIHAND	1	934	0	20.9	0.0	20.9
14	400 kV	RAPP-SHUJALPUR	2	0	539	0.0	6.5	-6.5
15	220 kV	BHANPURA-RANPUR	1	0	126	0.0	2.5	-2.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	111	14	0.4	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	84	29	1.0	0.0	1.0
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	34.6	218.9	-184.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.3	0.0	7.3
2	HVDC	RAIGARH-PUGALUR	2	1453	0	16.8	0.0	16.8
3	765 kV	SOLAPUR-RAICHUR	2	1504	1261	7.8	0.0	7.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2536	0.0	29.9	-29.9
5	400 kV	KOLHAPUR-KUDGI	2	1116	0	17.7	0.0	17.7
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	71	1.3	0.0	1.3
					WR-SR	50.8	29.9	21.0

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)	645	0	602	14.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1032	976	1014	24.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	290	0	256	6.2
	NER	132kV GELEPHU-SALAKATI	26	16	20	0.5
	NER	132kV MOTANGA-RANGIA	60	29	48	1.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-57	0	-28	-0.7
	ER	NEPAL IMPORT (FROM BIHAR)	-97	-4	-57	-1.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-50	0	-3	-0.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	-706	-708	-17.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-141	0	-121	-2.9