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 2022

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 02.08.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-अगस्त-2022 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 Aug 2022, 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-2022**

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)	63148	54782	41350	24971	3156	187407
Peak Shortage (MW)	1029	310	500	1794	45	3678
Energy Met (MU)	1425	1268	943	551	61	4248
Hydro Gen (MU)	351	82	154	132	38	756
Wind Gen (MU)	25	92	136	-	-	252
Solar Gen (MU)*	102.18	36.78	93.00	4.43	0.69	237
Energy Shortage (MU)	6.57	1.37	0.50	5.74	0.08	14.26
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66038	54949	44100	26172	3312	188180
Time Of Maximum Demand Met (From NLDC SCADA)	22:49	19:37	10:23	22:44	18:58	19:56

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	0.033	0.09	1.82	3.18	5.09	85.87	9.04

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	12114	0	262.0	162.5	-0.8	80	0.00
	Haryana	9572	0	198.1	127.1	1.1	206	0.00
	Rajasthan	11302	0	246.6	46.1	0.8	303	1.59
	Delhi	6089	0	121.3	110.3	-1.2	160	0.00
	UP	22780	410	463.0	208.5	-0.3	491	4.28
	Uttarakhand	2054	0	45.3	22.8	1.0	130	0.70
	HP	1527	0	31.9	-9.0	-0.5	159	0.00
	J&K(UT) & Ladakh(UT)	2738	0	50.6	29.4	-3.0	248	0.00
	Chandigarh	323	0	6.5	6.5	0.0	27	0.00
WR	Chhattisgarh	4922	0	120.0	69.3	1.5	383	1.37
	Gujarat	15936	0	355.5	190.7	1.0	968	0.00
	MP	10676	0	240.7	113.8	0.0	361	0.00
	Maharashtra	22035	0	493.4	202.0	-0.7	833	0.00
	Goa	611	0	12.6	12.6	0.0	68	0.00
	DNHDDPDCL	1160	0	27.0	26.9	0.1	40	0.00
	AMNSIL	838	0	18.4	11.4	0.5	297	0.00
SR	Andhra Pradesh	8924	0	191.5	69.0	1.3	568	0.00
	Telangana	11796	0	209.3	92.5	1.3	564	0.00
	Karnataka	7844	0	156.8	43.8	-0.6	1106	0.50
	Kerala	3236	0	67.2	23.6	-1.2	147	0.00
	Tamil Nadu	14433	0	308.9	106.3	-1.7	496	0.00
	Puducherry	425	0	9.6	8.9	0.0	43	0.00
ER	Bihar	6604	180	116.9	106.1	1.5	544	2.16
	DVC	3400	0	73.3	-38.2	0.3	311	0.00
	Jharkhand	1537	0	31.1	23.9	-1.7	205	2.38
	Odisha	6490	0	138.3	65.9	0.2	504	1.20
	West Bengal	9214	0	190.3	68.5	1.0	506	0.00
	Sikkim	98	0	1.5	1.4	0.2	60	0.00
NER	Arunachal Pradesh	142	0	2.5	1.8	0.3	61	0.00
	Assam	2127	0	39.8	31.1	0.6	143	0.08
	Manipur	190	0	2.6	2.7	-0.1	18	0.00
	Meghalaya	341	0	5.9	-0.1	0.1	90	0.00
	Mizoram	112	0	1.8	0.8	0.0	21	0.00
	Nagaland	153	0	2.6	2.2	-0.1	21	0.00
	Tripura	301	0	5.6	5.2	0.1	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	41.1	9.2	-25.7
Day Peak (MW)	1845.0	359.0	-1097.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	214.0	-82.8	5.8	-125.7	-11.4	0.0
Actual(MU)	195.8	-71.0	5.6	-118.4	-11.9	0.1
O/D/U/D(MU)	-18.2	11.8	-0.2	7.3	-0.5	0.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4297	15806	7578	2900	580	31160	44
State Sector	7575	17341	11245	2950	99	39209	56
Total	11872	33146	18823	5850	679	70369	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	740	1098	438	564	11	2851	64
Lignite	31	11	61	0	0	103	2
Hydro	353	82	154	132	38	759	17
Nuclear	29	33	47	0	0	109	2
Gas, Naptha & Diesel	18	8	9	0	30	66	1
RES (Wind, Solar, Biomass & Others)	147	129	268	4	1	550	12
Total	1319	1361	977	701	79	4437	100

Share of RES in total generation (%)	11.16	9.49	27.45	0.63	0.87	12.39
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.16	17.88	48.01	19.53	48.47	31.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.074

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-2022

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	25.1	-25.1
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	544	364	0.0	1.6	-1.6
4	765 kV	SASARAM-FATEHPUR	1	83	241	0.0	2.9	-2.9
5	765 kV	GAYA-BALIA	1	0	616	0.0	9.0	-9.0
6	400 kV	PUSAULI-VARANASI	1	11	59	0.0	0.4	-0.4
7	400 kV	PUSAULI -ALLAHABAD	1	2	68	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	970	0.0	15.4	-15.4
9	400 kV	PATNA-BALIA	2	0	603	0.0	11.5	-11.5
10	400 kV	NAUBATPUR-BALIA	2	0	649	0.0	11.9	-11.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	419	0.0	5.8	-5.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	530	0.0	8.6	-8.6
13	400 kV	BIHARSHARIFF-VARANASI	2	170	214	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	133	0.0	2.1	-2.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	40	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	98.0	-97.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	23.6	0.0	23.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1143	249	11.2	0.0	11.2
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.7	-0.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	8.9	-8.9
5	400 kV	RANCHI-SIPAT	2	150	180	0.1	0.0	0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	46	116	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	130	59	1.2	0.0	1.2
					ER-WR	36.1	10.1	26.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	594	655	1.0	0.0	1.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	37.4	-37.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3283	0.0	48.5	-48.5
4	400 kV	TALCHER-I/C	2	592	53	4.7	0.0	4.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	1.0	85.9	-84.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	75	396	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	285	404	0.0	0.4	-0.4
3	220 kV	ALIPURDUAR-SALAKATI	2	25	91	0.0	0.6	-0.6
					ER-NER	0.0	4.1	-4.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.1	-17.1
					NER-NR	0.0	17.1	-17.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1515	0.0	35.5	-35.5
2	HVDC	VINDHYACHAL B/B	-	442	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	143	1647	0.1	18.9	-18.9
5	765 kV	GWALIOR-PHAGI	2	617	1174	2.6	12.5	-9.9
6	765 kV	JABALPUR-ORAI	2	0	780	0.0	16.8	-16.8
7	765 kV	GWALIOR-ORAI	1	646	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	931	0.0	17.1	-17.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1153	146	12.5	0.0	12.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2843	0.0	48.6	-48.6
11	400 kV	ZERDA-KANKROLI	1	310	0	3.8	0.0	3.8
12	400 kV	ZERDA -BHINMAL	1	668	0	8.1	0.0	8.1
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	434	339	3.8	1.9	1.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	131	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	89	0	2.1	0.0	2.1
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	78.7	161.1	-82.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	813	2.9	5.0	-2.1
2	HVDC	RAIGARH-PUGALUR	2	2873	0	46.4	0.0	46.4
3	765 kV	SOLAPUR-RAICHUR	2	1265	1450	6.7	5.6	1.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3516	0.0	42.4	-42.4
5	400 kV	KOLHAPUR-KUDGI	2	1586	0	31.9	0.0	31.9
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	109	2.0	0.0	2.0
					WR-SR	90.0	53.0	37.0

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)	592	586	590	14.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	999	0	986	23.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	213	179	187	4.5
	NER	132kV GELEPHU-SALAKATI	-21	0	-11	-0.3
	NER	132kV MOTANGA-RANGIA	-65	-22	-40	-1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	412	279	387	9.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-933	-894	-922	-22.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-149	-3.6