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: 29th 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 28.08.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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:** **29-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)	64292	52301	38190	24410	3094	182287
Peak Shortage (MW)	1376	0	0	849	0	2225
Energy Met (MU)	1516	1223	910	527	59	4235
Hydro Gen (MU)	376	94	175	125	30	799
Wind Gen (MU)	24	71	60	-	-	154
Solar Gen (MU)*	103.64	45.37	93.82	4.32	0.30	247
Energy Shortage (MU)	5.81	0.00	0.00	9.02	0.00	14.83
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68298	53442	41762	25024	3132	183224
Time Of Maximum Demand Met (From NLDC SCADA)	00:03	11:32	12:22	21:38	19:20	19:47

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	0.031	0.00	0.30	6.71	7.01	82.39	10.60

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	12821	0	290.5	176.7	-1.5	11	0.00
	Haryana	10856	0	231.9	165.1	-0.2	129	0.00
	Rajasthan	11735	0	249.0	68.8	0.8	413	1.77
	Delhi	5945	0	116.5	106.4	-2.3	140	0.00
	UP	23853	0	491.3	221.7	-1.1	224	3.60
	Uttarakhand	2078	0	46.8	20.6	0.3	134	0.00
	HP	1492	0	31.2	-6.1	0.5	84	0.00
	J&K(UT) & Ladakh(UT)	2511	140	52.5	27.5	1.1	358	0.44
	Chandigarh	293	0	6.2	6.3	-0.1	14	0.00
WR	Chhattisgarh	4578	0	109.1	64.7	0.6	332	0.00
	Gujarat	15424	0	336.2	200.4	-0.4	565	0.00
	MP	9377	0	211.9	84.9	0.0	402	0.00
	Maharashtra	22971	0	508.4	190.7	1.7	1061	0.00
	Goa	562	0	11.3	11.5	-0.2	39	0.00
	DNHDDPDCL	1170	0	27.2	27.1	0.1	64	0.00
	AMNSIL	852	0	18.9	13.4	-1.4	247	0.00
SR	Andhra Pradesh	8940	0	192.1	64.7	-0.7	480	0.00
	Telangana	11630	0	215.6	77.1	1.5	567	0.00
	Karnataka	8205	0	165.5	48.4	-1.0	486	0.00
	Kerala	3217	0	65.3	25.2	-1.7	135	0.00
	Tamil Nadu	11735	0	262.8	124.9	0.3	729	0.00
	Puducherry	365	0	8.4	8.0	-0.3	40	0.00
ER	Bihar	6230	931	117.8	113.8	1.1	466	7.34
	DVC	3333	0	72.3	-27.9	0.5	337	0.00
	Jharkhand	1522	0	32.1	22.8	-1.3	155	1.68
	Odisha	6019	0	126.6	50.2	-0.9	440	0.00
	West Bengal	8666	0	176.8	50.4	-0.3	418	0.00
	Sikkim	80	0	1.2	1.2	0.0	17	0.00
NER	Arunachal Pradesh	128	0	2.3	2.5	-0.5	9	0.00
	Assam	2039	0	38.8	33.8	-1.2	105	0.00
	Manipur	185	0	2.6	2.7	-0.1	10	0.00
	Meghalaya	327	0	6.3	2.3	0.0	52	0.00
	Mizoram	101	0	1.6	0.7	-0.1	7	0.00
	Nagaland	142	0	2.6	2.2	-0.1	6	0.00
	Tripura	306	0	5.2	5.0	-0.1	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.6	7.8	-25.3
Day Peak (MW)	2037.0	343.5	-1071.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	272.6	-141.9	-8.1	-118.7	-3.9	0.0
Actual(MU)	263.0	-129.4	-10.3	-121.8	-7.7	-6.2
O/D/U/D(MU)	-9.5	12.5	-2.1	-3.1	-3.8	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3882	15336	6718	2120	444	28499	41
State Sector	7930	18876	10162	3700	162	40829	59
Total	11812	34212	16880	5820	605	69328	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	741	1119	480	554	16	2909	66
Lignite	28	6	55	0	0	89	2
Hydro	378	94	175	125	30	802	18
Nuclear	33	40	43	0	0	116	3
Gas, Naptha & Diesel	16	2	7	0	29	54	1
RES (Wind, Solar, Biomass & Others)	145	117	198	4	0	465	10
Total	1341	1379	957	683	74	4435	100

Share of RES in total generation (%)	10.82	8.45	20.72	0.64	0.40	10.48
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.45	18.22	43.43	18.89	40.50	31.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.090

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: 29-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	702	0.0	18.2	-18.2
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	416	389	0.0	1.5	-1.5
4	765 kV	SASARAM-FATEHPUR	1	125	244	0.0	2.8	-2.8
5	765 kV	GAYA-BALIA	1	0	678	0.0	11.8	-11.8
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	192	0.0	3.5	-3.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	993	0.0	16.6	-16.6
9	400 kV	PATNA-BALIA	2	0	577	0.0	10.9	-10.9
10	400 kV	NAUBATPUR-BALIA	2	0	609	0.0	11.3	-11.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	556	0.0	8.0	-8.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	210	0.0	8.1	-8.1
13	400 kV	BIHARSHARIFF-VARANASI	2	168	164	0.0	1.1	-1.1
14	220 kV	SAHUPURI-KARAMNASA	1	31	116	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	108.2	-107.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	971	128	9.5	0.0	9.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1502	1	18.9	0.0	18.9
3	765 kV	JHARSUGUDA-DURG	2	0	293	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	501	0.0	7.4	-7.4
5	400 kV	RANCHI-SIPAT	2	278	85	2.8	0.0	2.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	129	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	99	33	0.6	0.0	0.6
					ER-WR	31.8	13.2	18.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	339	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1997	0.0	32.2	-32.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2493	0.0	41.5	-41.5
4	400 kV	TALCHER-I/C	2	715	153	12.2	0.0	12.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	81.2	-81.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	100	180	0.0	1.2	-1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	179	208	0.0	0.8	-0.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	84	0.0	1.1	-1.1
					ER-NER	0.0	3.1	-3.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	11.7	-11.7
					NER-NR	0.0	11.7	-11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4017	0.0	59.0	-59.0
2	HVDC	VINDHYACHAL B/B	-	444	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	511	0.0	7.7	-7.7
4	765 kV	GWALIOR-AGRA	2	0	1304	0.1	20.5	-20.4
5	765 kV	GWALIOR-PHAGI	2	236	1602	0.4	21.6	-21.2
6	765 kV	JABALPUR-ORAI	2	0	1070	0.0	26.9	-26.9
7	765 kV	GWALIOR-ORAI	1	535	0	7.0	0.0	7.0
8	765 kV	SATNA-ORAI	1	0	1178	0.0	20.3	-20.3
9	765 kV	BANASKANTHA-CHITORGARH	2	966	0	9.6	0.0	9.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3169	0.0	56.9	-56.9
11	400 kV	ZERDA-KANKROLI	1	247	0	3.2	0.0	3.2
12	400 kV	ZERDA -BHINMAL	1	592	0	6.5	0.0	6.5
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	336	497	1.7	4.5	-2.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	87	0	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	50	11	1.2	0.0	1.2
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	64.1	219.4	-155.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	787	1009	4.4	9.7	-5.3
2	HVDC	RAIGARH-PUGALUR	2	2872	0	41.1	0.0	41.1
3	765 kV	SOLAPUR-RAICHUR	2	1201	1063	8.6	3.5	5.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2039	0.0	25.6	-25.6
5	400 kV	KOLHAPUR-KUDGI	2	1470	0	27.1	0.0	27.1
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	101	1.9	0.0	1.9
					WR-SR	83.1	38.8	44.4

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)	719	642	686	16.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1077	965	988	23.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	219	0	188	4.5
	NER	132kV GELEPHU-SALAKATI	17	8	13	0.3
	NER	132kV MOTANGA-RANGIA	44	22	33	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-14	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-8	-2	-6	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	418	259	344	8.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-912	-816	-908	-21.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-159	0	-146	-3.5