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: 28th October 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 27.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-अक्टूबर-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 27th Oct 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:** **28-Oct-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 19:00 hrs; from RLDCs)	45591	47280	41509	21510	2613	158503
Peak Shortage (MW)	152	0	0	504	0	656
Energy Met (MU)	975	1099	931	460	46	3511
Hydro Gen (MU)	163	44	157	91	36	491
Wind Gen (MU)	16	28	16	-	-	60
Solar Gen (MU)*	108.24	52.11	106.48	5.23	0.72	273
Energy Shortage (MU)	2.25	0.00	0.00	2.40	0.00	4.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47315	49544	43722	21973	2726	162744
Time Of Maximum Demand Met (From NLDC SCADA)	19:07	18:36	10:05	18:41	17:48	18:47

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	0.046	0.00	0.35	14.21	14.56	79.33	6.11

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	6381	0	129.6	60.2	-0.7	88	0.00
	Haryana	5975	0	124.7	66.9	-1.4	112	0.00
	Rajasthan	12843	0	248.9	80.0	-0.6	322	0.62
	Delhi	3429	0	68.0	60.7	-1.2	96	0.00
	UP	15661	0	290.0	80.4	-0.1	387	0.32
	Uttarakhand	1714	0	32.3	16.3	1.4	203	0.06
	HP	1566	0	28.7	12.9	-0.6	28	0.00
	J&K(UT) & Ladakh(UT)	2570	0	49.7	41.6	-0.1	296	1.25
	Chandigarh	187	0	3.4	3.2	0.2	36	0.00
WR	Chhattisgarh	3964	0	88.1	35.3	-0.4	305	0.00
	Gujarat	14763	0	337.0	197.2	2.7	635	0.00
	MP	10600	0	211.5	104.7	0.0	367	0.00
	Maharashtra	19732	0	412.3	137.7	1.2	548	0.00
	Goa	620	0	11.1	12.2	-1.2	43	0.00
	DNHDDPDCL	1080	0	23.4	23.1	0.4	104	0.00
	AMNSIL	721	0	14.9	8.8	-0.1	258	0.00
SR	Andhra Pradesh	9474	0	195.9	65.6	0.0	450	0.00
	Telangana	9624	0	181.3	24.2	0.8	738	0.00
	Karnataka	9258	0	173.9	51.8	-0.9	530	0.00
	Kerala	3923	0	78.0	51.1	-0.1	181	0.00
	Tamil Nadu	14433	0	292.6	168.4	0.3	744	0.00
	Puducherry	402	0	8.9	8.4	-0.2	64	0.00
ER	Bihar	4975	0	92.6	81.8	1.2	234	0.50
	DVC	3231	0	69.1	-23.9	-0.8	260	0.00
	Jharkhand	1557	0	27.8	21.0	0.1	338	1.90
	Odisha	5786	0	126.5	46.7	-1.7	295	0.00
	West Bengal	7370	0	143.2	12.0	-1.5	366	0.00
	Sikkim	76	0	1.2	1.1	0.1	24	0.00
NER	Arunachal Pradesh	128	0	2.2	2.6	-0.4	41	0.00
	Assam	1633	0	27.7	20.5	-0.5	83	0.00
	Manipur	174	0	2.4	2.4	0.0	40	0.00
	Meghalaya	357	0	6.4	2.8	-0.2	29	0.00
	Mizoram	107	0	1.6	1.0	-0.2	13	0.00
	Nagaland	130	0	2.2	2.0	0.0	9	0.00
	Tripura	239	0	3.6	3.1	-0.2	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	19.8	5.6	-23.1
Day Peak (MW)	1018.0	254.0	-1043.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	116.3	-22.1	52.5	-123.7	-23.1	0.0
Actual(MU)	114.1	-26.7	50.5	-113.9	-25.9	-2.0
O/D/U/D(MU)	-2.3	-4.6	-2.1	9.8	-2.9	-2.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8581	23671	7888	4610	372	45121	52
State Sector	10125	18761	9105	3020	78	41089	48
Total	18705	42432	16993	7630	450	86210	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	570	971	457	503	13	2513	68
Lignite	24	10	59	0	0	93	3
Hydro	164	44	158	91	36	492	13
Nuclear	30	39	70	0	0	140	4
Gas, Naptha & Diesel	16	4	5	0	28	53	1
RES (Wind, Solar, Biomass & Others)	132	81	177	5	1	395	11
Total	935	1149	925	599	78	3686	100

Share of RES in total generation (%)	14.08	7.01	19.13	0.88	0.92	10.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.81	14.22	43.76	16.00	47.65	27.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.073

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: 28-Oct-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	742	0.0	18.2	-18.2
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.6	-8.6
3	765 kV	GAYA-VARANASI	2	295	540	0.0	2.2	-2.2
4	765 kV	SASARAM-FATEHPUR	1	18	420	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	447	0.0	6.1	-6.1
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	5.3	-5.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	162	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	769	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	2	0	330	0.0	3.9	-3.9
10	400 kV	NAUBATPUR-BALIA	2	17	351	0.0	3.9	-3.9
11	400 kV	BIHARSHARIFF-BALIA	2	59	246	0.0	1.8	-1.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	379	0.0	6.1	-6.1
13	400 kV	BIHARSHARIFF-VARANASI	2	155	155	0.2	0.0	0.2
14	220 kV	SAHUPURI-KARAMNASA	1	42	84	0.0	0.3	-0.3
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	0.6	76.4	-75.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	481	478	1.2	0.0	1.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	677	434	6.8	0.0	6.8
3	765 kV	JHARSUGUDA-DURG	2	0	506	0.0	8.4	-8.4
4	400 kV	JHARSUGUDA-RAIGARH	4	100	365	0.0	2.5	-2.5
5	400 kV	RANCHI-SIPAT	2	162	178	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	58	93	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	184	0	2.7	0.0	2.7
					ER-WR	11.2	11.4	-0.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	279	0.0	6.2	-6.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1998	0.0	46.9	-46.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2139	0.0	35.2	-35.2
4	400 kV	TALCHER-I/C	2	0	738	0.0	13.9	-13.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	88.3	-88.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	263	149	1.5	0.0	1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	560	0	7.8	0.0	7.8
3	220 kV	ALIPURDUAR-SALAKATI	2	41	14	0.4	0.0	0.4
					ER-NER	9.7	0.0	9.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	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	700	0.0	10.8	-10.8
2	HVDC	VINDHYACHAL B/B	-	441	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1308	0.0	21.9	-21.9
5	765 kV	GWALIOR-PHAGI	2	0	1922	0.0	30.8	-30.8
6	765 kV	JABALPUR-ORAI	2	0	456	0.0	16.6	-16.6
7	765 kV	GWALIOR-ORAI	1	918	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	853	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2347	0	40.9	0.0	40.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2056	0.0	36.5	-36.5
11	400 kV	ZERDA-KANKROLI	1	366	0	6.7	0.0	6.7
12	400 kV	ZERDA -BHINMAL	1	633	0	8.6	0.0	8.6
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	256	339	0.0	2.2	-2.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	100	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	75	0	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	107.4	137.9	-30.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.1	0.0	7.1
2	HVDC	RAIGARH-PUGALUR	2	0	1998	0.0	31.0	-31.0
3	765 kV	SOLAPUR-RAICHUR	2	1730	212	19.5	0.0	19.5
4	765 kV	WARDHA-NIZAMABAD	2	319	1362	0.0	12.2	-12.2
5	400 kV	KOLHAPUR-KUDGI	2	1070	0	18.3	0.0	18.3
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	113	2.1	0.0	2.1
					WR-SR	46.9	43.3	3.6

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)	294	0	294	7.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	477	0	477	11.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	98	0	93	2.2
	NER	132kV GELEPHU-SALAKATI	-10	-2	-14	-0.3
	NER	132kV MOTANGA-RANGIA	-36	-19	-29	-0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-42	0	-1	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	296	133	235	5.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-915	-724	-850	-20.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-113	-2.7