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 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 28.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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:** **29-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)	46764	48964	42329	21307	2656	162020
Peak Shortage (MW)	677	0	0	583	0	1260
Energy Met (MU)	1016	1124	955	449	48	3592
Hydro Gen (MU)	161	42	158	83	36	481
Wind Gen (MU)	10	30	27	-	-	67
Solar Gen (MU)*	107.32	53.63	93.69	4.69	0.82	260
Energy Shortage (MU)	3.93	0.00	0.00	4.02	0.00	7.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48851	51837	45240	22415	2746	167033
Time Of Maximum Demand Met (From NLDC SCADA)	18:51	18:31	10:04	17:50	17:43	18:51

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	0.073	0.46	3.63	14.49	18.59	72.39	9.03

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	6412	0	131.5	55.1	-1.6	49	0.00
	Haryana	6411	0	131.7	71.6	-1.3	120	0.02
	Rajasthan	13499	0	260.1	90.1	1.4	337	2.48
	Delhi	3663	0	71.1	64.4	-1.2	106	0.00
	UP	16592	0	300.9	77.2	0.6	322	0.00
	Uttarakhand	1781	0	34.4	19.0	0.8	113	0.15
	HP	1684	0	30.8	14.9	-0.5	92	0.45
	J&K(UT) & Ladakh(UT)	2609	0	52.5	42.1	2.3	356	0.83
	Chandigarh	172	0	3.4	3.3	0.1	33	0.00
WR	Chhattisgarh	4070	0	88.9	35.1	0.0	336	0.00
	Gujarat	15384	0	327.9	207.5	-2.4	692	0.00
	MP	10701	0	221.3	113.4	0.0	682	0.00
	Maharashtra	20171	0	433.4	145.3	-0.4	665	0.00
	Goa	643	0	11.4	12.5	-1.4	36	0.00
	DNHDDPDCL	1134	0	25.8	25.7	0.1	98	0.00
	AMNSIL	746	0	15.7	9.1	0.2	289	0.00
SR	Andhra Pradesh	9510	0	193.2	70.8	1.3	564	0.00
	Telangana	9823	0	184.4	19.2	0.2	612	0.00
	Karnataka	10292	0	183.9	63.0	-0.6	688	0.00
	Kerala	3928	0	79.1	51.0	0.1	197	0.00
	Tamil Nadu	14585	0	305.0	172.1	0.7	648	0.00
	Puducherry	394	0	9.0	8.6	-0.3	40	0.00
ER	Bihar	5052	0	91.3	82.4	1.2	242	0.55
	DVC	3249	0	69.0	-27.7	-0.6	264	0.00
	Jharkhand	1430	168	28.1	20.4	0.5	314	3.47
	Odisha	5742	0	115.8	41.7	-3.1	243	0.00
	West Bengal	7582	0	143.1	3.2	-0.8	336	0.00
	Sikkim	96	0	1.4	1.4	0.1	36	0.00
NER	Arunachal Pradesh	126	0	2.2	2.7	-0.6	8	0.00
	Assam	1633	0	29.1	21.3	0.1	105	0.00
	Manipur	190	0	2.5	2.5	0.0	45	0.00
	Meghalaya	364	0	6.7	2.9	0.0	58	0.00
	Mizoram	107	0	1.5	1.0	-0.2	55	0.00
	Nagaland	128	0	2.2	1.9	0.0	18	0.00
	Tripura	247	0	4.1	2.4	0.0	60	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	18.0	5.4	-24.5
Day Peak (MW)	891.0	234.0	-1035.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	134.0	-20.5	49.0	-144.7	-17.9	0.0
Actual(MU)	133.1	-31.0	57.2	-143.3	-19.6	-3.7
O/D/U/D(MU)	-1.0	-10.6	8.2	1.3	-1.7	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8301	20911	7888	4110	735	41945	51
State Sector	10060	17341	10055	3060	78	40594	49
Total	18360	38252	17943	7170	813	82538	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	608	1007	474	539	13	2640	70
Lignite	23	11	58	0	0	92	2
Hydro	163	42	158	83	36	482	13
Nuclear	26	36	70	0	0	132	3
Gas, Naptha & Diesel	15	4	5	0	23	46	1
RES (Wind, Solar, Biomass & Others)	124	84	171	5	1	385	10
Total	958	1184	935	627	74	3777	100

Share of RES in total generation (%)	12.96	7.10	18.28	0.76	1.11	10.18
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.62	13.71	42.67	14.04	50.37	26.44

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.079

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-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	346	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	216	667	0.0	6.8	-6.8
4	765 kV	SASARAM-FATEHPUR	1	0	471	0.0	6.2	-6.2
5	765 kV	GAYA-BALIA	1	0	477	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	226	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	175	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	808	0.0	12.7	-12.7
9	400 kV	PATNA-BALIA	2	0	346	0.0	5.8	-5.8
10	400 kV	NAUBATPUR-BALIA	2	0	370	0.0	5.9	-5.9
11	400 kV	BIHARSHARIFF-BALIA	2	80	283	0.0	2.9	-2.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	400	0.0	6.7	-6.7
13	400 kV	BIHARSHARIFF-VARANASI	2	144	205	0.0	1.8	-1.8
14	220 kV	SAHUPURI-KARAMNASA	1	36	89	0.0	0.7	-0.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	16	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	90.2	-89.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	298	291	0.0	0.8	-0.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	574	370	3.4	0.0	3.4
3	765 kV	JHARSUGUDA-DURG	2	0	597	0.0	10.8	-10.8
4	400 kV	JHARSUGUDA-RAIGARH	4	1	503	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	111	198	0.0	0.9	-0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	99	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	137	0	1.8	0.0	1.8
					ER-WR	5.2	19.1	-13.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	300	0.0	6.2	-6.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	39.5	-39.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2393	0.0	44.6	-44.6
4	400 kV	TALCHER-I/C	2	245	341	1.0	0.0	1.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	90.3	-90.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	111	283	0.3	1.8	-1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	397	0	5.1	0.0	5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	21	28	0.0	0.0	0.0
					ER-NER	5.4	1.8	3.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1010	0.0	15.6	-15.6
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	1247	0.0	17.2	-17.2
5	765 kV	GWALIOR-PHAGI	2	0	2215	0.0	36.3	-36.3
6	765 kV	JABALPUR-ORAI	2	0	611	0.0	18.3	-18.3
7	765 kV	GWALIOR-ORAI	1	961	0	14.4	0.0	14.4
8	765 kV	SATNA-ORAI	1	0	972	0.0	20.0	-20.0
9	765 kV	BANASKANTHA-CHITORGARH	2	2504	0	44.5	0.0	44.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	1865	0.0	33.7	-33.7
11	400 kV	ZERDA-KANKROLI	1	367	0	6.2	0.0	6.2
12	400 kV	ZERDA -BHINMAL	1	566	0	7.8	0.0	7.8
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	212	346	0.0	3.2	-3.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	105	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	83	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	109.2	145.3	-36.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.0	0.0	7.0
2	HVDC	RAIGARH-PUGALUR	2	0	604	0.0	14.4	-14.4
3	765 kV	SOLAPUR-RAICHUR	2	1351	674	4.0	0.0	4.0
4	765 kV	WARDHA-NIZAMABAD	2	0	1629	0.0	22.6	-22.6
5	400 kV	KOLHAPUR-KUDGI	2	960	0	15.1	0.0	15.1
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	111	2.2	0.0	2.2
					WR-SR	28.4	37.0	-8.6

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BANGLADESH	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-46	0	-1	0.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-115	0	-103	-2.5