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: 19th 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 18.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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:** **19-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)	50622	55302	41322	23038	2988	173272
Peak Shortage (MW)	572	0	0	488	0	1060
Energy Met (MU)	1076	1238	901	505	56	3776
Hydro Gen (MU)	178	82	152	121	22	555
Wind Gen (MU)	5	24	46	-	-	75
Solar Gen (MU)*	114.52	49.52	96.80	4.88	0.77	266
Energy Shortage (MU)	1.81	0.00	0.00	1.85	0.00	3.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51934	57889	41957	23566	3078	176035
Time Of Maximum Demand Met (From NLDC SCADA)	19:16	18:35	18:51	18:02	17:47	18:50

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	0.021	0.00	0.00	2.75	2.75	83.43	13.82

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	7210	0	152.8	69.9	-0.7	148	0.00
	Haryana	7137	0	149.6	80.0	-0.9	156	0.00
	Rajasthan	12035	0	250.9	87.1	3.6	379	1.19
	Delhi	3954	0	80.0	78.6	-0.5	171	0.00
	UP	17213	0	320.5	102.4	0.7	571	0.00
	Uttarakhand	1921	0	38.0	18.7	0.9	190	0.00
	HP	1730	0	31.5	12.6	-1.0	59	0.20
	J&K(UT) & Ladakh(UT)	2500	0	49.1	39.3	1.5	940	0.42
	Chandigarh	206	0	3.9	3.9	0.0	32	0.00
WR	Chhattisgarh	4360	0	95.7	41.8	-0.4	178	0.00
	Gujarat	19907	0	420.3	259.0	6.1	823	0.00
	MP	10058	0	204.2	108.4	0.0	431	0.00
	Maharashtra	21997	0	464.2	171.1	-0.7	1284	0.00
	Goa	639	0	12.4	13.1	-0.8	43	0.00
	DNHDDPDCL	1222	0	28.3	28.2	0.1	204	0.00
	AMNSIL	612	0	13.1	7.0	-0.1	254	0.00
SR	Andhra Pradesh	8165	0	178.7	86.5	0.9	544	0.00
	Telangana	8661	0	169.2	7.5	-1.3	563	0.00
	Karnataka	8168	0	166.4	47.3	0.0	598	0.00
	Kerala	3686	0	74.5	43.5	0.2	203	0.00
	Tamil Nadu	14364	0	302.8	158.1	-2.8	631	0.00
	Puducherry	409	0	9.0	8.7	-0.3	58	0.00
ER	Bihar	5390	0	105.4	96.2	-0.7	129	0.12
	DVC	3410	0	73.6	-29.9	0.4	440	0.00
	Jharkhand	1559	0	31.0	20.2	-0.3	151	1.73
	Odisha	5867	0	121.5	37.1	-0.4	405	0.00
	West Bengal	8618	0	172.0	30.3	-0.6	344	0.00
	Sikkim	111	0	1.7	1.6	0.0	19	0.00
NER	Arunachal Pradesh	130	0	2.3	2.3	-0.3	29	0.00
	Assam	1933	0	35.6	28.3	0.4	153	0.00
	Manipur	186	0	2.5	2.6	-0.1	17	0.00
	Meghalaya	342	0	6.2	3.3	0.4	48	0.00
	Mizoram	108	0	1.6	0.6	-0.3	17	0.00
	Nagaland	152	0	2.4	1.9	-0.1	15	0.00
	Tripura	285	0	5.3	5.1	0.1	41	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	26.1	9.1	-26.1
Day Peak (MW)	1319.0	344.0	-1098.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	147.5	-17.2	28.8	-156.1	-4.6	-1.5
Actual(MU)	150.9	-15.4	25.0	-158.5	-3.1	-1.1
O/D/U/D(MU)	3.4	1.7	-3.8	-2.5	1.6	0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6672	17241	7148	2070	309	33439	48
State Sector	9620	16704	8525	1860	99	36807	52
Total	16292	33944	15673	3930	408	70246	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	631	1059	459	569	13	2731	69
Lignite	24	17	45	0	0	86	2
Hydro	180	82	152	121	22	557	14
Nuclear	31	36	60	0	0	126	3
Gas, Naptha & Diesel	8	4	7	0	30	49	1
RES (Wind, Solar, Biomass & Others)	127	75	190	5	1	397	10
Total	1000	1272	912	695	66	3945	100

Share of RES in total generation (%)	12.67	5.88	20.79	0.71	1.17	10.05
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.69	15.10	44.02	18.16	35.11	27.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.047

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: 19-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	850	0.0	18.5	-18.5
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.6	-8.6
3	765 kV	GAYA-VARANASI	2	504	595	0.0	2.5	-2.5
4	765 kV	SASARAM-FATEHPUR	1	8	577	0.0	7.2	-7.2
5	765 kV	GAYA-BALIA	1	0	528	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	207	0.0	3.8	-3.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1008	0.0	15.7	-15.7
9	400 kV	PATNA-BALIA	2	0	488	0.0	7.6	-7.6
10	400 kV	NAUBATPUR-BALIA	2	0	519	0.0	8.2	-8.2
11	400 kV	BIHARSHARIFF-BALIA	2	0	406	0.0	5.2	-5.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	555	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	194	255	0.0	1.3	-1.3
14	220 kV	SAHUPURI-KARAMNASA	1	45	95	0.0	0.8	-0.8
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	102.1	-101.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	395	680	0.0	1.2	-1.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	834	635	4.2	0.0	4.2
3	765 kV	JHARSUGUDA-DURG	2	0	564	0.0	8.3	-8.3
4	400 kV	JHARSUGUDA-RAIGARH	4	115	584	0.0	6.8	-6.8
5	400 kV	RANCHI-SIPAT	2	202	249	0.0	0.6	-0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	53	95	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	191	14	2.1	0.0	2.1
					ER-WR	6.4	17.2	-10.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	542	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	1984	0.0	31.6	-31.6
4	400 kV	TALCHER-I/C	2	250	368	3.6	0.0	3.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	83.7	-83.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	425	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	147	529	0.0	5.6	-5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	75	0.0	1.1	-1.1
					ER-NER	0.0	12.9	-12.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	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	1004	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	-	441	0	6.6	0.0	6.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1373	0.0	20.9	-20.9
5	765 kV	GWALIOR-PHAGI	2	0	2246	0.0	32.8	-32.8
6	765 kV	JABALPUR-ORAI	2	0	500	0.0	15.1	-15.1
7	765 kV	GWALIOR-ORAI	1	1042	0	17.2	0.0	17.2
8	765 kV	SATNA-ORAI	1	0	904	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITORGARH	2	2377	0	42.5	0.0	42.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2209	0.0	34.0	-34.0
11	400 kV	ZERDA-KANKROLI	1	423	0	7.5	0.0	7.5
12	400 kV	ZERDA -BHINMAL	1	720	0	8.6	0.0	8.6
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	321	342	1.6	2.9	-1.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	104	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	78	0	1.3	0.0	1.3
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	107.7	149.1	-41.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	1498	0.0	22.0	-22.0
3	765 kV	SOLAPUR-RAICHUR	2	2219	0	23.5	0.0	23.5
4	765 kV	WARDHA-NIZAMABAD	2	643	863	2.4	6.2	-3.7
5	400 kV	KOLHAPUR-KUDGI	2	1291	0	22.3	0.0	22.3
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	108	2.1	0.0	2.1
					WR-SR	50.4	35.4	15.0

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)	366	0	310	7.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	790	0	675	16.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	182	0	154	3.7
	NER	132kV GELEPHU-SALAKATI	24	-7	10	0.2
	NER	132kV MOTANGA-RANGIA	53	27	42	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	393	206	385	9.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-938	-934	-936	-22.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-150	-3.6