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: 16th 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 15.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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:** **16-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)	50733	53845	40667	23471	3067	171783
Peak Shortage (MW)	422	0	0	134	0	556
Energy Met (MU)	1076	1190	863	513	56	3699
Hydro Gen (MU)	206	97	145	129	30	607
Wind Gen (MU)	7	58	23	-	-	88
Solar Gen (MU)*	118.39	56.39	83.66	5.55	0.80	265
Energy Shortage (MU)	1.70	0.00	0.00	0.46	0.00	2.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52033	56125	41139	23755	3112	174077
Time Of Maximum Demand Met (From NLDC SCADA)	19:20	18:46	18:32	18:48	17:43	19:05

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	0.036	0.02	1.33	4.04	5.39	73.90	20.70

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	8283	0	169.9	93.1	-0.9	161	0.00
	Haryana	6772	0	146.4	79.5	-1.4	117	0.00
	Rajasthan	11677	0	248.7	75.6	2.2	325	0.72
	Delhi	3668	0	74.6	75.3	-2.7	44	0.00
	UP	16905	0	316.0	105.1	-1.3	392	0.15
	Uttarakhand	1852	0	37.1	16.6	1.0	165	0.17
	HP	1679	0	31.4	10.5	0.0	79	0.00
	J&K(UT) & Ladakh(UT)	2497	0	48.3	38.0	1.0	182	0.66
	Chandigarh	210	0	3.7	3.9	-0.2	43	0.00
WR	Chhattisgarh	4258	0	95.6	42.6	-0.9	228	0.00
	Gujarat	19197	0	408.1	243.0	-1.7	582	0.00
	MP	9609	0	188.2	81.7	-3.2	531	0.00
	Maharashtra	21542	0	446.9	162.3	-0.7	970	0.00
	Goa	648	0	12.5	12.8	-0.7	43	0.00
	DNHDDPDCL	1202	0	27.8	27.7	0.1	60	0.00
	AMNSIL	545	0	11.3	6.6	-0.9	274	0.00
SR	Andhra Pradesh	7989	0	169.2	73.2	0.8	636	0.00
	Telangana	7873	0	156.1	11.2	-0.7	444	0.00
	Karnataka	7849	0	157.1	47.1	-1.3	560	0.00
	Kerala	3801	0	77.9	52.5	0.5	225	0.00
	Tamil Nadu	14162	0	293.9	171.0	1.9	874	0.00
	Puducherry	408	0	9.3	8.9	-0.4	61	0.00
ER	Bihar	5617	0	109.4	100.4	-0.9	220	0.00
	DVC	3405	0	74.2	-25.8	1.0	242	0.00
	Jharkhand	1466	60	32.4	22.7	-0.2	149	0.46
	Odisha	5747	0	120.7	41.0	-1.0	384	0.00
	West Bengal	8554	0	175.0	38.7	0.1	550	0.00
	Sikkim	94	0	1.5	1.6	-0.1	23	0.00
NER	Arunachal Pradesh	118	0	2.0	2.1	-0.3	20	0.00
	Assam	1966	0	36.0	28.6	0.0	153	0.00
	Manipur	201	0	2.6	2.6	0.0	25	0.00
	Meghalaya	334	0	5.9	1.5	0.1	50	0.00
	Mizoram	104	0	1.7	0.6	-0.2	14	0.00
	Nagaland	156	0	2.3	1.8	-0.1	44	0.00
	Tripura	299	0	5.6	5.0	0.2	60	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	31.7	9.5	-26.0
Day Peak (MW)	1590.0	357.0	-1109.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	143.6	-39.2	39.2	-138.3	-5.3	0.0
Actual(MU)	145.6	-45.7	51.8	-151.4	-3.8	-3.4
O/D/U/D(MU)	2.0	-6.5	12.7	-13.1	1.5	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7672	18141	8188	200	735	34936	50
State Sector	6705	16731	9350	1560	107	34453	50
Total	14377	34872	17538	1760	842	69388	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	611	996	437	559	12	2616	67
Lignite	25	16	41	0	0	81	2
Hydro	207	97	145	129	30	608	16
Nuclear	31	36	69	0	0	135	3
Gas, Naptha & Diesel	5	2	6	0	24	37	1
RES (Wind, Solar, Biomass & Others)	134	115	149	6	1	405	10
Total	1012	1262	847	694	66	3882	100

Share of RES in total generation (%)	13.19	9.14	17.62	0.80	1.20	10.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.70	19.64	42.87	19.36	46.06	29.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.038

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: 16-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	701	0.0	16.4	-16.4
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.3	-8.3
3	765 kV	GAYA-VARANASI	2	324	588	0.0	2.6	-2.6
4	765 kV	SASARAM-FATEHPUR	1	0	572	0.0	6.8	-6.8
5	765 kV	GAYA-BALIA	1	0	455	0.0	6.8	-6.8
6	400 kV	PUSAULI-VARANASI	1	0	230	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	209	0.0	3.9	-3.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1029	0.0	16.8	-16.8
9	400 kV	PATNA-BALIA	2	0	504	0.0	7.5	-7.5
10	400 kV	NAUBATPUR-BALIA	2	0	533	0.0	7.6	-7.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	375	0.0	4.2	-4.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	625	0.0	9.4	-9.4
13	400 kV	BIHARSHARIFF-VARANASI	2	115	265	0.0	1.5	-1.5
14	220 kV	SAHUPURI-KARAMNASA	1	25	97	0.0	1.0	-1.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
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	0.5	97.0	-96.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	554	67	6.5	0.0	6.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	828	656	3.2	0.0	3.2
3	765 kV	JHARSUGUDA-DURG	2	0	426	0.0	6.4	-6.4
4	400 kV	JHARSUGUDA-RAIGARH	4	65	556	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	190	230	0.0	0.3	-0.3
6	220 kV	BUDHIPADAR-RAIGARH	1	49	82	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	168	0	2.3	0.0	2.3
					ER-WR	12.1	12.6	-0.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	544	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2311	0.0	36.1	-36.1
4	400 kV	TALCHER-I/C	2	232	632	0.0	0.9	-0.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	88.2	-88.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	363	0.0	5.2	-5.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	440	0.0	5.2	-5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	77	0.0	1.0	-1.0
					ER-NER	0.0	11.4	-11.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.8	-16.8
					NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1016	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	-	443	0	9.7	0.0	9.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1651	0.0	22.0	-22.0
5	765 kV	GWALIOR-PHAGI	2	0	1954	0.0	29.0	-29.0
6	765 kV	JABALPUR-ORAI	2	0	395	0.0	12.8	-12.8
7	765 kV	GWALIOR-ORAI	1	939	0	16.3	0.0	16.3
8	765 kV	SATNA-ORAI	1	0	882	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	2236	0	36.7	0.0	36.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2130	0.0	32.8	-32.8
11	400 kV	ZERDA-KANKROLI	1	379	0	6.3	0.0	6.3
12	400 kV	ZERDA -BHINMAL	1	571	0	7.4	0.0	7.4
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	20.8	0.0	20.8
14	400 kV	RAPP-SHUJALPUR	2	279	262	1.3	2.8	-1.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	91	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	66	12	1.1	0.0	1.1
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	100.3	142.7	-42.4
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	1500	0.0	18.0	-18.0
3	765 kV	SOLAPUR-RAICHUR	2	2180	590	11.8	2.1	9.7
4	765 kV	WARDHA-NIZAMABAD	2	529	1468	1.5	13.1	-11.6
5	400 kV	KOLHAPUR-KUDGI	2	1410	0	21.0	0.0	21.0
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	115	2.3	0.0	2.3
					WR-SR	36.6	40.4	-3.8

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)	445	0	405	9.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	892	0	813	19.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	191	0	171	4.1
	NER	132kV GELEPHU-SALAKATI	28	17	23	0.6
	NER	132kV MOTANGA-RANGIA	59	38	47	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-63	0	-4	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	420	336	400	9.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-943	-936	-941	-22.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-166	0	-143	-3.4