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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24th Oct 2021

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 23.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-अक्टूबर-2021 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 23rdOctober 2021, 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:** **24-Oct-2021**

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)	47366	53156	41599	21443	2779	166343
Peak Shortage (MW)	200	155	0	300	0	655
Energy Met (MU)	967	1203	968	435	50	3623
Hydro Gen (MU)	200	50	150	125	19	544
Wind Gen (MU)	29	64	19	-	-	112
Solar Gen (MU)*	59.99	40.56	84.14	4.76	0.26	190
Energy Shortage (MU)	7.38	1.12	0.00	2.63	0.00	11.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48088	54040	46793	21434	2891	169379
Time Of Maximum Demand Met (From NLDC SCADA)	18:45	18:39	10:20	18:52	17:49	18:44

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	0.048	0.00	1.06	10.48	11.55	73.09	15.36

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	6434	0	132.8	86.0	-3.4	181	0.30
	Haryana	6895	0	138.9	97.6	-0.7	183	1.29
	Rajasthan	10921	0	229.4	48.0	-1.0	530	0.00
	Delhi	3574	0	73.3	60.2	0.3	228	0.00
	UP	16401	0	287.9	117.3	-1.5	401	2.34
	Uttarakhand	1792	0	35.7	18.4	-0.1	146	0.00
	HP	1643	0	32.5	16.1	-0.4	113	0.00
	J&K(UT) & Ladakh(UT)	2033	250	33.1	22.7	1.4	419	3.45
	Chandigarh	188	0	3.4	3.8	-0.4	8	0.00
WR	Chhattisgarh	4056	0	88.6	32.6	-1.2	213	0.00
	Gujarat	17420	0	379.1	209.4	4.4	935	1.03
	MP	9628	0	199.6	122.8	-2.0	393	0.00
	Maharashtra	21411	0	476.0	171.6	-1.0	611	0.00
	Goa	591	40	13.8	11.2	2.0	39	0.09
	DD	344	0	7.8	7.5	0.3	42	0.00
	DNH	866	0	19.9	19.9	0.0	46	0.00
	AMNSIL	785	0	17.8	8.9	-0.1	294	0.00
SR	Andhra Pradesh	9512	0	197.8	98.4	-0.2	451	0.00
	Telangana	9553	0	197.8	53.2	-1.0	437	0.00
	Karnataka	9185	0	182.8	59.5	-0.7	534	0.00
	Kerala	3493	0	72.7	36.5	-1.3	200	0.00
	Tamil Nadu	14433	0	308.5	174.9	0.5	679	0.00
	Puducherry	397	0	8.6	8.8	-0.2	57	0.00
ER	Bihar	5013	0	89.5	82.5	1.5	547	0.81
	DVC	3220	0	66.9	-32.7	-0.2	492	0.26
	Jharkhand	1577	0	25.7	21.3	-1.6	254	1.56
	Odisha	5534	0	113.8	43.3	0.3	459	0.00
	West Bengal	7309	0	137.2	18.5	-1.4	228	0.00
	Sikkim	95	0	1.4	1.6	-0.2	32	0.00
NER	Arunachal Pradesh	140	0	2.2	2.2	-0.1	39	0.00
	Assam	1792	0	31.0	23.7	0.4	104	0.00
	Manipur	186	0	2.5	2.5	0.0	37	0.00
	Meghalaya	350	0	6.0	2.9	-0.1	38	0.00
	Mizoram	110	0	1.5	1.2	-0.2	6	0.00
	Nagaland	118	0	2.3	2.1	-0.2	16	0.00
	Tripura	257	0	4.6	3.8	-0.5	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.8	0.9	-20.5
Day Peak (MW)	1915.0	-81.0	-874.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	144.0	-117.5	126.0	-149.6	-2.9	0.0
Actual(MU)	115.4	-105.0	129.9	-141.3	-4.5	-5.6
O/D/U/D(MU)	-28.7	12.5	4.0	8.3	-1.6	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6178	15460	9042	2690	580	33949	44
State Sector	12160	18273	8730	4705	11	43879	56
Total	18338	33733	17772	7395	591	77828	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	491	1098	452	467	12	2519	68
Lignite	23	8	49	0	0	80	2
Hydro	200	50	150	125	19	544	15
Nuclear	31	33	63	0	0	128	3
Gas, Naptha & Diesel	25	27	9	0	29	89	2
RES (Wind, Solar, Biomass & Others)	101	105	128	5	0	339	9
Total	870	1321	851	597	60	3699	100

Share of RES in total generation (%)	11.61	7.95	15.00	0.80	0.43	9.16
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.14	14.25	40.06	21.78	32.68	27.32

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
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: 24-Oct-2021

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	500	0.0	9.3	-9.3
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	49	480	0.0	3.8	-3.8
4	765 kV	SASARAM-FATEHPUR	1	0	382	0.0	6.2	-6.2
5	765 kV	GAYA-BALIA	1	0	227	0.0	3.1	-3.1
6	400 kV	PUSAULI-VARANASI	1	0	160	0.0	3.4	-3.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	143	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	717	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	4	0	375	0.0	4.8	-4.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	307	0.0	3.3	-3.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	351	0.0	6.0	-6.0
12	400 kV	BIHARSHARIFF-VARANASI	2	0	226	0.0	2.0	-2.0
13	220 kV	PUSAULI-SAHUPURI	1	9	76	0.0	1.0	-1.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	64.6	-64.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	913	0	10.7	0.0	10.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	161	808	0.0	5.5	-5.5
3	765 kV	JHARSUGUDA-DURG	2	10	251	0.0	2.9	-2.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	446	0.0	6.1	-6.1
5	400 kV	RANCHI-SIPAT	2	69	205	0.0	1.2	-1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	114	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	173	0	3.1	0.0	3.1
					ER-WR	13.9	17.4	-3.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	448	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	41.1	-41.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2687	0.0	52.6	-52.6
4	400 kV	TALCHER-I/C	2	0	761	0.0	9.8	-9.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	103.5	-103.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	110	198	0.1	1.8	-1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	61	353	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	100	0.0	1.3	-1.3
					ER-NER	0.1	6.5	-6.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	11.9	-11.9
					NER-NR	0.0	11.9	-11.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	325	0.0	7.6	-7.6
2	HVDC	VINDHYACHAL B/B	-	49	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	299	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1622	0.0	22.7	-22.7
5	765 kV	GWALIOR-PHAGI	2	0	1662	0.0	28.6	-28.6
6	765 kV	JABALPUR-ORAI	2	0	376	0.0	13.3	-13.3
7	765 kV	GWALIOR-ORAI	1	799	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	865	0.0	19.3	-19.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1263	0	22.6	0.0	22.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2006	0.0	35.8	-35.8
11	400 kV	ZERDA-KANKROLI	1	350	0	7.2	0.0	7.2
12	400 kV	ZERDA -BHINMAL	1	565	0	10.5	0.0	10.5
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	175	44	1.4	0.1	1.4
15	220 kV	BHANPURA-RANPUR	1	68	0	0.9	0.0	0.9
16	220 kV	BHANPURA-MORAK	1	0	30	1.9	0.0	1.9
17	220 kV	MEHGAON-AURAIYA	1	115	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.7	0.0	1.7
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	86.0	134.7	-48.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	17.2	-17.2
2	HVDC	RAIGARH-PUGALUR	2	0	1169	0.0	18.4	-18.4
3	765 kV	SOLAPUR-RAICHUR	2	706	1770	0.0	14.7	-14.7
4	765 kV	WARDHA-NIZAMABAD	2	0	1914	0.0	29.5	-29.5
5	400 kV	KOLHAPUR-KUDGI	2	1089	0	18.1	0.0	18.1
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	1	80	1.6	0.0	1.6
					WR-SR	19.7	79.8	-60.1

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)	532	0	486	11.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1055	0	1043	25.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	266	0	241	5.8
	NER	132kV GELEPHU-SALAKATI	24	15	20	0.5
	NER	132kV MOTANGA-RANGIA	37	23	35	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-81	0	39	0.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-730	-719	-729	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-125	-3.0