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: 28th 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 27.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th October 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:** **28-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)	45688	53379	41989	21613	2829	165498
Peak Shortage (MW)	200	0	0	409	0	609
Energy Met (MU)	916	1225	957	449	51	3599
Hydro Gen (MU)	187	55	142	100	19	502
Wind Gen (MU)	8	57	35	-	-	100
Solar Gen (MU)*	58.73	41.53	100.94	4.72	0.28	206
Energy Shortage (MU)	3.45	0.00	0.00	0.54	0.02	4.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47024	54871	44612	22044	2951	169915
Time Of Maximum Demand Met (From NLDC SCADA)	18:37	10:19	09:58	18:22	17:51	18:38

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	0.022	0.00	0.00	1.22	1.22	81.55	17.23

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	5946	0	116.5	59.1	-1.9	185	0.00
	Haryana	6216	0	125.1	89.5	0.2	145	0.00
	Rajasthan	11256	0	222.2	66.0	0.4	275	0.00
	Delhi	3501	0	66.6	54.9	-1.1	99	0.00
	UP	14892	0	266.3	114.0	-0.1	395	0.00
	Uttarakhand	1732	0	34.2	17.9	0.8	216	0.00
	HP	1693	0	32.6	17.0	-0.4	289	0.00
	J&K(UT) & Ladakh(UT)	2684	200	49.6	39.0	1.2	329	3.45
	Chandigarh	172	0	3.1	4.6	-1.4	0	0.00
WR	Chhattisgarh	3969	0	87.4	29.9	-1.2	344	0.00
	Gujarat	17015	0	379.0	217.4	-1.2	499	0.00
	MP	10186	0	207.4	130.5	-4.5	645	0.00
	Maharashtra	22839	0	491.9	174.5	-3.2	633	0.00
	Goa	627	0	13.8	10.9	2.2	39	0.00
	DD	350	0	7.9	7.4	0.5	99	0.00
	DNH	867	0	19.9	19.8	0.1	70	0.00
	AMNSIL	811	0	18.1	9.2	0.4	292	0.00
SR	Andhra Pradesh	9343	0	194.0	76.7	-0.1	457	0.00
	Telangana	9479	0	190.2	38.3	-6.0	268	0.00
	Karnataka	8961	0	180.8	44.3	-2.6	465	0.00
	Kerala	3513	0	72.7	34.9	-1.0	254	0.00
	Tamil Nadu	14482	0	311.1	198.7	3.0	664	0.00
	Puducherry	401	0	8.5	8.7	-0.2	27	0.00
ER	Bihar	6095	0	88.3	82.6	-0.9	390	0.14
	DVC	3283	0	68.8	-36.6	-0.2	303	0.04
	Jharkhand	1536	0	28.5	22.6	-0.1	179	0.36
	Odisha	5824	0	118.7	50.9	-0.9	367	0.00
	West Bengal	7602	0	143.1	13.9	0.3	502	0.00
	Sikkim	100	0	1.5	1.5	0.0	41	0.00
NER	Arunachal Pradesh	138	0	2.3	2.1	0.1	35	0.00
	Assam	1836	0	31.2	24.2	0.2	144	0.00
	Manipur	187	0	2.7	2.5	0.2	41	0.02
	Meghalaya	371	0	6.3	3.3	0.2	45	0.00
	Mizoram	109	0	1.9	0.5	0.0	15	0.00
	Nagaland	136	0	2.5	2.1	0.1	51	0.00
	Tripura	262	0	4.5	3.2	-0.3	46	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	33.7	0.5	-11.7
Day Peak (MW)	1660.0	54.0	-890.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	151.7	-73.8	70.1	-144.7	-3.2	0.0
Actual(MU)	136.8	-71.1	81.9	-150.2	-1.9	-4.5
O/D/U/D(MU)	-14.9	2.8	11.9	-5.5	1.3	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6668	15610	7912	1760	555	32504	43
State Sector	13421	17351	8953	3895	11	43630	57
Total	20089	32960	16865	5655	566	76134	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	459	1110	467	518	11	2566	70
Lignite	24	8	44	0	0	76	2
Hydro	187	55	142	100	19	502	14
Nuclear	32	33	68	0	0	133	4
Gas, Naptha & Diesel	16	14	9	0	29	68	2
RES (Wind, Solar, Biomass & Others)	78	99	159	5	0	341	9
Total	797	1318	890	622	59	3686	100

Share of RES in total generation (%)	9.83	7.48	17.90	0.76	0.48	9.25
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.22	14.15	41.55	16.77	32.46	26.48

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.009
Based on State Max Demands	1.050

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-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	7.4	-7.4
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	241	657	0.0	5.0	-5.0
4	765 kV	SASARAM-FATEHPUR	1	0	412	0.0	5.1	-5.1
5	765 kV	GAYA-BALIA	1	0	460	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	0	168	0.0	3.2	-3.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	151	0.0	2.4	-2.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	756	0.0	11.3	-11.3
9	400 kV	PATNA-BALIA	4	0	908	0.0	14.4	-14.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	551	0.0	7.9	-7.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	478	0.0	7.2	-7.2
12	400 kV	BIHARSHARIFF-VARANASI	2	63	313	0.0	3.3	-3.3
13	220 kV	PUSAULI-SAHUPURI	1	3	99	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	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	2	0	0.0	0.0	0.0
					ER-NR	0.3	81.9	-81.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	954	0	11.6	0.0	11.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	318	923	0.0	4.6	-4.6
3	765 kV	JHARSUGUDA-DURG	2	117	265	0.0	1.8	-1.8
4	400 kV	JHARSUGUDA-RAIGARH	4	36	412	0.0	4.7	-4.7
5	400 kV	RANCHI-SIPAT	2	113	247	0.0	0.7	-0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	116	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	198	0	2.9	0.0	2.9
					ER-WR	14.5	13.4	1.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	440	0.0	9.7	-9.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1928	0.0	40.4	-40.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2817	0.0	50.4	-50.4
4	400 kV	TALCHER-I/C	2	0	856	0.0	7.6	-7.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	100.5	-100.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	103	278	0.0	1.7	-1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	98	465	0.0	2.9	-2.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	81	0.0	2.0	-2.0
					ER-NER	0.0	6.7	-6.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	9.9	-9.9
					NER-NR	0.0	9.9	-9.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	804	0.0	10.1	-10.1
2	HVDC	VINDHYACHAL B/B	-	446	0	10.6	0.0	10.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	151	0.0	3.7	-3.7
4	765 kV	GWALIOR-AGRA	2	0	1266	0.0	20.7	-20.7
5	765 kV	GWALIOR-PHAGI	2	0	1972	0.0	32.5	-32.5
6	765 kV	JABALPUR-ORAI	2	0	495	0.0	17.1	-17.1
7	765 kV	GWALIOR-ORAI	1	890	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	971	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1383	0	26.0	0.0	26.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2302	0.0	40.9	-40.9
11	400 kV	ZERDA-KANKROLI	1	357	0	7.0	0.0	7.0
12	400 kV	ZERDA -BHINMAL	1	516	0	9.0	0.0	9.0
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	156	196	0.8	0.8	0.0
15	220 kV	BHANPURA-RANPUR	1	75	11	0.6	0.0	0.6
16	220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17	220 kV	MEHGAON-AURAIYA	1	107	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	74	0	1.4	0.0	1.4
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	93.5	146.1	-52.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	414	0.0	9.8	-9.8
2	HVDC	RAIGARH-PUGALUR	2	606	0	13.8	0.0	13.8
3	765 kV	SOLAPUR-RAICHUR	2	1292	2231	0.0	13.1	-13.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2175	0.0	28.9	-28.9
5	400 kV	KOLHAPUR-KUDGI	2	1422	0	19.7	0.0	19.7
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	96	1.5	0.0	1.5
					WR-SR	35.0	51.8	-16.8

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)	447	0	370	8.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	912	0	765	18.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	237	218	223	5.4
	NER	132kV GELEPHU-SALAKATI	20	10	15	0.4
	NER	132kV MOTANGA-RANGIA	44	21	33	0.8
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	54	0	22	0.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-750	0	-375	-9.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-111	-2.7