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 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 28.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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:** **29-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)	45917	53391	41999	21186	2854	165347
Peak Shortage (MW)	202	0	0	127	0	329
Energy Met (MU)	912	1223	959	437	51	3581
Hydro Gen (MU)	185	53	153	98	18	507
Wind Gen (MU)	6	61	27	-	-	95
Solar Gen (MU)*	62.93	43.16	95.22	4.92	0.28	207
Energy Shortage (MU)	5.77	0.03	0.00	0.97	0.04	6.81
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46853	54804	45268	21685	2959	168866
Time Of Maximum Demand Met (From NLDC SCADA)	18:27	10:17	08:22	19:11	17:47	18:27

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	0.026	0.00	0.00	3.91	3.91	83.17	12.92

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	5910	0	115.5	57.3	-1.1	97	0.00
	Haryana	6112	0	123.9	88.2	0.7	219	0.00
	Rajasthan	11563	0	224.9	68.5	1.2	438	0.00
	Delhi	3404	0	65.0	55.0	-2.5	49	0.00
	UP	14886	0	261.9	109.7	-0.1	452	2.32
	Uttarakhand	1781	0	34.9	18.5	0.8	153	0.00
	HP	1703	0	32.3	17.4	-0.5	257	0.00
	J&K(UT) & Ladakh(UT)	2632	200	50.2	39.6	1.9	464	3.45
	Chandigarh	173	0	3.1	4.4	-1.3	3	0.00
WR	Chhattisgarh	3933	28	86.6	29.5	-0.1	385	0.03
	Gujarat	17053	0	379.1	204.1	3.2	625	0.00
	MP	10107	0	206.2	127.8	-0.8	495	0.00
	Maharashtra	22892	0	491.8	174.2	-5.0	712	0.00
	Goa	625	0	13.3	10.8	1.9	42	0.00
	DD	348	0	7.9	7.6	0.3	37	0.00
	DNH	858	0	19.9	19.9	0.0	41	0.00
	AMNSIL	817	0	17.8	9.7	-0.2	299	0.00
SR	Andhra Pradesh	9586	0	196.1	77.8	1.7	807	0.00
	Telangana	9413	0	189.4	34.2	-0.8	498	0.00
	Karnataka	9482	0	188.1	47.0	-1.5	525	0.00
	Kerala	3594	0	73.4	35.4	-0.6	186	0.00
	Tamil Nadu	14359	0	303.6	191.4	1.2	589	0.00
	Puducherry	396	0	8.2	8.4	-0.3	33	0.00
ER	Bihar	4691	0	83.9	79.3	-0.4	430	0.08
	DVC	3431	0	68.0	-33.2	-1.4	346	0.08
	Jharkhand	1503	0	28.0	22.2	-0.1	196	0.80
	Odisha	5710	0	114.7	51.8	-1.5	429	0.00
	West Bengal	7563	0	140.6	15.3	1.7	445	0.00
	Sikkim	99	0	1.5	1.6	-0.1	54	0.00
NER	Arunachal Pradesh	131	0	2.1	1.9	0.1	65	0.00
	Assam	1813	0	31.1	24.3	0.0	97	0.00
	Manipur	186	0	2.6	2.6	0.1	36	0.04
	Meghalaya	365	0	6.6	3.6	0.2	48	0.00
	Mizoram	112	0	1.7	0.5	-0.2	52	0.00
	Nagaland	145	0	2.1	2.1	-0.2	24	0.00
	Tripura	280	0	4.7	3.7	-0.1	42	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	33.7	0.3	-20.3
Day Peak (MW)	1493.0	56.0	-889.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	153.7	-96.3	74.9	-130.4	-1.8	0.0
Actual(MU)	142.8	-86.6	87.2	-145.1	-1.6	-3.2
O/D/U/D(MU)	-10.8	9.7	12.3	-14.6	0.3	-3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6878	16030	8412	2260	555	34134	43
State Sector	13981	18346	8891	4888	11	46116	57
Total	20859	34375	17303	7148	566	80250	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	451	1108	463	503	10	2534	69
Lignite	25	9	44	0	0	78	2
Hydro	185	53	153	98	18	507	14
Nuclear	32	33	69	0	0	133	4
Gas, Naptha & Diesel	16	14	9	0	29	67	2
RES (Wind, Solar, Biomass & Others)	81	104	148	5	0	338	9
Total	789	1322	885	606	57	3659	100

Share of RES in total generation (%)	10.24	7.90	16.69	0.82	0.49	9.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.73	14.42	41.72	17.00	31.66	26.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.052

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-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	502	0.0	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	249	658	0.0	3.8	-3.8
4	765 kV	SASARAM-FATEHPUR	1	0	444	0.0	4.7	-4.7
5	765 kV	GAYA-BALIA	1	0	414	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	175	0.0	3.3	-3.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	160	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	706	0.0	8.8	-8.8
9	400 kV	PATNA-BALIA	4	0	855	0.0	13.3	-13.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	494	0.0	5.9	-5.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	450	0.0	6.4	-6.4
12	400 kV	BIHARSHARIFF-VARANASI	2	101	316	0.0	1.7	-1.7
13	220 kV	PUSAULI-SAHUPURI	1	25	82	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	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	0	0	0.0	0.0	0.0
					ER-NR	0.3	77.2	-76.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	795	112	9.6	0.0	9.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	477	850	0.0	2.2	-2.2
3	765 kV	JHARSUGUDA-DURG	2	87	234	0.0	1.6	-1.6
4	400 kV	JHARSUGUDA-RAIGARH	4	177	355	0.0	2.8	-2.8
5	400 kV	RANCHI-SIPAT	2	118	209	0.0	0.4	-0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	57	127	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	208	45	2.4	0.0	2.4
					ER-WR	12.0	8.5	3.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	441	0.0	9.7	-9.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2599	0.0	49.7	-49.7
4	400 kV	TALCHER-I/C	2	0	855	0.0	7.1	-7.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	3	0.0	0.0	0.0
					ER-SR	0.0	99.2	-99.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	368	0.0	3.8	-3.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	464	0.0	4.7	-4.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	117	0.0	1.6	-1.6
					ER-NER	0.0	10.1	-10.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	12.2	-12.2
					NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1528	0.0	25.0	-25.0
2	HVDC	VINDHYACHAL B/B	-	444	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	150	0.0	1.8	-1.8
4	765 kV	GWALIOR-AGRA	2	0	1770	0.0	22.9	-22.9
5	765 kV	GWALIOR-PHAGI	2	0	1923	0.0	32.3	-32.3
6	765 kV	JABALPUR-ORAI	2	0	409	0.0	13.2	-13.2
7	765 kV	GWALIOR-ORAI	1	956	0	17.7	0.0	17.7
8	765 kV	SATNA-ORAI	1	0	878	0.0	17.4	-17.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1246	0	24.0	0.0	24.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2453	0.0	42.1	-42.1
11	400 kV	ZERDA-KANKROLI	1	328	0	6.3	0.0	6.3
12	400 kV	ZERDA -BHINMAL	1	460	0	8.0	0.0	8.0
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	45	49	0.5	0.6	-0.2
15	220 kV	BHANPURA-RANPUR	1	52	3	0.6	0.0	0.6
16	220 kV	BHANPURA-MORAK	1	0	30	1.6	0.0	1.6
17	220 kV	MEHGAON-AURAIYA	1	102	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	66	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	94.7	155.3	-60.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	239	414	0.0	5.9	-5.9
2	HVDC	RAIGARH-PUGALUR	2	577	0	13.8	0.0	13.8
3	765 kV	SOLAPUR-RAICHUR	2	1078	1996	0.0	16.1	-16.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2170	0.0	32.8	-32.8
5	400 kV	KOLHAPUR-KUDGI	2	1195	0	17.0	0.0	17.0
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	96	1.6	0.0	1.6
					WR-SR	32.4	54.7	-22.4

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)	399	0	370	8.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	805	0	784	18.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	230	0	205	4.9
	NER	132kV GELEPHU-SALAKATI	26	12	17	0.4
	NER	132kV MOTANGA-RANGIA	33	12	27	0.6
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	56	0	12	0.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-745	-721	-724	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-123	-3.0