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: 31st 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 30.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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:** **31-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)	45855	52670	40928	20763	2770	162986
Peak Shortage (MW)	281	0	0	0	0	281
Energy Met (MU)	905	1211	902	425	50	3493
Hydro Gen (MU)	175	45	150	94	18	482
Wind Gen (MU)	2	53	31	-	-	85
Solar Gen (MU)*	67.32	42.70	75.78	4.39	0.29	190
Energy Shortage (MU)	6.99	0.00	0.00	0.80	0.06	7.85
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46708	55317	42902	21434	2862	167614
Time Of Maximum Demand Met (From NLDC SCADA)	18:21	10:31	18:35	17:57	18:01	18:14

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	0.042	0.38	0.44	3.70	4.52	73.98	21.49

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	5965	0	115.6	59.2	-1.3	231	0.00
	Haryana	5936	0	122.0	87.5	0.1	267	0.00
	Rajasthan	11942	0	226.9	78.2	0.0	310	0.63
	Delhi	3235	0	61.3	52.2	-1.5	85	0.00
	UP	14975	0	260.4	118.0	-1.6	335	2.91
	Uttarakhand	1795	0	35.0	19.1	0.8	148	0.00
	HP	1673	0	32.1	17.3	0.2	194	0.00
	J&K(UT) & Ladakh(UT)	2503	200	48.2	40.6	0.0	222	3.45
	Chandigarh	163	0	3.0	4.3	-1.3	1	0.00
WR	Chhattisgarh	3914	0	85.4	30.8	-0.7	184	0.00
	Gujarat	16659	0	365.6	219.3	-2.0	700	0.00
	MP	10761	0	214.0	144.3	-0.9	457	0.00
	Maharashtra	22763	0	488.4	160.1	-2.8	669	0.00
	Goa	637	0	14.2	11.1	2.5	41	0.00
	DD	331	0	7.4	7.3	0.1	34	0.00
	DNH	810	0	18.5	18.1	0.4	96	0.00
	AMNSIL	807	0	17.9	9.3	-0.2	267	0.00
SR	Andhra Pradesh	8271	0	176.1	68.9	0.3	545	0.00
	Telangana	8754	0	177.7	31.7	-0.5	471	0.00
	Karnataka	9490	0	183.2	56.8	0.2	846	0.00
	Kerala	3551	0	73.1	35.5	-0.9	142	0.00
	Tamil Nadu	13767	0	283.8	183.9	0.5	515	0.00
	Puducherry	389	0	7.7	7.7	-0.1	36	0.00
ER	Bihar	4464	0	78.0	72.0	0.8	276	0.11
	DVC	3271	65	67.7	-32.9	-0.1	491	0.22
	Jharkhand	1500	0	25.7	21.9	-2.4	118	0.47
	Odisha	5855	0	118.5	55.6	-0.5	307	0.00
	West Bengal	7357	0	134.0	5.5	-0.5	336	0.00
	Sikkim	102	0	1.6	1.3	0.3	82	0.00
NER	Arunachal Pradesh	120	0	2.0	1.9	0.1	40	0.00
	Assam	1748	0	30.1	23.4	-0.4	88	0.00
	Manipur	195	0	2.5	2.6	0.0	34	0.06
	Meghalaya	382	0	6.7	3.4	0.3	45	0.00
	Mizoram	110	0	1.7	0.5	-0.1	20	0.00
	Nagaland	142	0	2.1	2.1	-0.3	40	0.00
	Tripura	274	0	4.8	3.8	-0.2	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	30.0	0.4	-20.0
Day Peak (MW)	1326.0	51.2	-864.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	159.1	-82.6	71.5	-143.9	-4.2	0.0
Actual(MU)	148.3	-75.0	85.4	-160.3	-2.8	-4.4
O/D/U/D(MU)	-10.8	7.6	13.9	-16.4	1.4	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6168	15170	9282	1260	580	32459	41
State Sector	15411	18316	9791	3455	11	46983	59
Total	21579	33485	19073	4715	591	79442	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	450	1103	437	513	10	2513	70
Lignite	27	9	37	0	0	73	2
Hydro	175	45	150	94	18	482	13
Nuclear	32	33	69	0	0	134	4
Gas, Naptha & Diesel	14	15	9	0	29	66	2
RES (Wind, Solar, Biomass & Others)	80	96	130	4	0	310	9
Total	778	1301	831	611	58	3579	100

Share of RES in total generation (%)	10.25	7.38	15.64	0.72	0.50	8.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.88	13.39	41.98	16.11	31.99	25.90

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.010
Based on State Max Demands	1.042

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: 31-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	501	0.0	12.5	-12.5
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	39	665	0.0	6.4	-6.4
4	765 kV	SASARAM-FATEHPUR	1	0	484	0.0	7.3	-7.3
5	765 kV	GAYA-BALIA	1	0	431	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	173	0.0	3.3	-3.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	142	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	710	0.0	10.3	-10.3
9	400 kV	PATNA-BALIA	4	0	799	0.0	13.7	-13.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	502	0.0	7.0	-7.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	436	0.0	7.1	-7.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	297	0.0	3.0	-3.0
13	220 kV	PUSAULI-SAHUPURI	1	7	78	0.0	0.9	-0.9
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	88.3	-87.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	705	0	6.2	0.0	6.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	299	697	0.0	4.4	-4.4
3	765 kV	JHARSUGUDA-DURG	2	0	218	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	127	256	0.0	2.6	-2.6
5	400 kV	RANCHI-SIPAT	2	112	254	0.0	1.2	-1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	3	89	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	145	0	2.0	0.0	2.0
					ER-WR	8.2	11.3	-3.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	493	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2538	0.0	44.2	-44.2
4	400 kV	TALCHER-I/C	2	0	439	0.0	6.5	-6.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	94.9	-94.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	413	0.0	4.9	-4.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	588	0.0	6.0	-6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	143	0.0	1.9	-1.9
					ER-NER	0.0	12.7	-12.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.0	-16.0
					NER-NR	0.0	16.0	-16.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1007	0.0	8.2	-8.2
2	HVDC	VINDHYACHAL B/B	-	447	0	9.8	0.0	9.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1608	0.0	29.4	-29.4
5	765 kV	GWALIOR-PHAGI	2	0	2186	0.0	37.3	-37.3
6	765 kV	JABALPUR-ORAI	2	0	403	0.0	14.0	-14.0
7	765 kV	GWALIOR-ORAI	1	1205	0	22.4	0.0	22.4
8	765 kV	SATNA-ORAI	1	0	751	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1244	0	23.8	0.0	23.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2045	0.0	39.4	-39.4
11	400 kV	ZERDA-KANKROLI	1	325	0	6.2	0.0	6.2
12	400 kV	ZERDA -BHINMAL	1	445	0	7.3	0.0	7.3
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	127	323	0.2	2.7	-2.4
15	220 kV	BHANPURA-RANPUR	1	76	1	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	95	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	61	1	1.2	0.0	1.2
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	96.8	147.5	-50.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	594	258	4.8	0.0	4.8
2	HVDC	RAIGARH-PUGALUR	2	0	760	0.0	13.0	-13.0
3	765 kV	SOLAPUR-RAICHUR	2	881	1950	0.0	8.2	-8.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2217	0.0	29.7	-29.7
5	400 kV	KOLHAPUR-KUDGI	2	972	0	16.9	0.0	16.9
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	78	1.6	0.0	1.6
					WR-SR	23.2	51.0	-27.7

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)	332	0	316	7.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	724	684	696	16.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	219	0	201	4.8
	NER	132kV GELEPHU-SALAKATI	21	0	13	0.3
	NER	132kV MOTANGA-RANGIA	30	19	25	0.6
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-34	0	-1	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	85	-35	19	0.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-721	-715	-720	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-143	0	-112	-2.7