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: 12th 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 11.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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:** **12-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)	50954	53037	39391	22709	3075	169166
Peak Shortage (MW)	3820	1575	400	941	121	6857
Energy Met (MU)	1217	1199	912	501	60	3890
Hydro Gen (MU)	219	63	154	111	23	570
Wind Gen (MU)	12	18	87	-	-	117
Solar Gen (MU)*	63.86	40.53	88.64	3.95	0.30	197
Energy Shortage (MU)	67.74	7.48	1.28	10.09	0.28	86.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57035	53479	44034	23273	3112	174600
Time Of Maximum Demand Met (From NLDC SCADA)	10:36	18:46	12:34	20:15	17:52	10:38

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	0.074	0.07	4.12	16.83	21.02	74.35	4.63

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	8751	2295	179.1	92.0	-1.9	129	29.16
	Haryana	8319	63	171.5	127.7	0.0	232	4.00
	Rajasthan	12262	272	239.6	84.1	3.1	426	20.73
	Delhi	4683	0	101.9	77.7	0.0	154	0.00
	UP	18973	870	407.2	169.2	0.4	300	7.95
	Uttarakhand	1862	190	39.1	18.3	1.3	131	2.45
	HP	1551	0	31.9	11.1	0.0	201	0.00
	J&K(UT) & Ladakh(UT)	2824	200	41.9	28.1	1.9	404	3.45
	Chandigarh	249	0	4.9	5.0	-0.1	64	0.00
WR	Chhattisgarh	4297	0	100.9	55.8	1.0	235	0.00
	Gujarat	16331	30	359.0	210.7	4.6	845	7.15
	MP	10964	0	239.1	149.7	0.1	818	0.00
	Maharashtra	20255	0	441.7	140.7	-3.5	700	0.00
	Goa	601	0	13.8	12.0	1.2	46	0.17
	DD	335	0	7.4	6.9	0.5	67	0.16
	DNH	855	0	19.8	19.3	0.5	92	0.00
	AMNSIL	786	0	17.5	6.6	0.3	357	0.00
SR	Andhra Pradesh	8767	0	182.6	80.8	2.1	716	1.28
	Telangana	9738	0	198.3	29.6	-2.5	420	0.00
	Karnataka	8369	0	164.7	33.8	-2.9	490	0.00
	Kerala	3351	0	71.1	39.7	-0.6	186	0.00
	Tamil Nadu	13636	0	288.1	103.5	-1.7	581	0.00
	Puducherry	360	0	7.6	8.0	-0.4	37	0.00
ER	Bihar	5743	0	111.1	102.6	1.9	663	5.08
	DVC	3049	0	65.6	-25.9	1.5	411	1.64
	Jharkhand	1455	0	30.6	22.2	0.6	128	3.36
	Odisha	5783	0	119.0	36.5	-0.4	294	0.00
	West Bengal	8651	0	173.6	34.3	-1.0	300	0.00
	Sikkim	104	0	1.5	1.4	0.1	46	0.00
NER	Arunachal Pradesh	115	0	2.3	2.2	-0.1	32	0.00
	Assam	2089	90	40.0	31.0	1.2	143	0.28
	Manipur	203	0	2.6	2.7	0.0	25	0.00
	Meghalaya	321	0	5.8	2.2	-0.1	59	0.00
	Mizoram	104	0	1.5	0.9	0.0	19	0.00
	Nagaland	134	0	2.3	1.9	0.0	36	0.00
	Tripura	333	0	6.0	5.3	0.2	50	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	27.1	4.0	-13.6
Day Peak (MW)	1377.0	271.2	-859.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	231.9	-75.9	-77.0	-82.9	3.9	0.0
Actual(MU)	226.6	-75.8	-80.2	-76.7	2.6	-3.4
O/D/U/D(MU)	-5.3	0.0	-3.2	6.2	-1.3	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4286	17071	8312	3160	430	33259	44
State Sector	10230	18880	9030	4890	11	43041	56
Total	14516	35951	17342	8050	441	76300	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	599	1090	526	475	10	2700	68
Lignite	24	8	44	0	0	75	2
Hydro	219	63	154	111	23	570	14
Nuclear	30	33	69	0	0	132	3
Gas, Naptha & Diesel	48	35	10	0	30	123	3
RES (Wind, Solar, Biomass & Others)	88	59	207	4	0	358	9
Total	1008	1287	1010	590	64	3959	100

Share of RES in total generation (%)	8.76	4.56	20.49	0.67	0.47	9.05
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.47	11.96	42.60	19.47	37.43	26.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.066

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: 12-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	1503	0.0	36.6	-36.6
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	401	153	3.1	0.0	3.1
4	765 kV	SASARAM-FATEHPUR	1	89	191	0.0	1.4	-1.4
5	765 kV	GAYA-BALIA	1	0	411	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	185	0.0	3.5	-3.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	136	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	95	395	0.0	3.3	-3.3
9	400 kV	PATNA-BALIA	4	0	452	0.0	5.9	-5.9
10	400 kV	BIHARSHARIFF-BALIA	2	237	80	1.8	0.0	1.8
11	400 kV	MOTIHARI-GORAKHPUR	2	21	260	0.0	3.1	-3.1
12	400 kV	BIHARSHARIFF-VARANASI	2	178	73	1.6	0.0	1.6
13	220 kV	PUSAULI-SAHUPURI	1	0	83	0.0	1.5	-1.5
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	6.9	71.2	-64.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	690	591	2.0	0.0	2.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1211	0	18.8	0.0	18.8
3	765 kV	JHARSUGUDA-DURG	2	331	0	3.2	0.0	3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	374	0.0	5.0	-5.0
5	400 kV	RANCHI-SIPAT	2	282	0	4.3	0.0	4.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	174	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	64	16	0.9	0.0	0.9
					ER-WR	29.2	7.8	21.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	376	0.0	7.4	-7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	891	0.0	21.7	-21.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	1761	0.0	24.6	-24.6
4	400 kV	TALCHER-I/C	2	547	0	11.9	0.0	11.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	4	0.0	0.0	0.0
					ER-SR	0.0	53.7	-53.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	606	0.0	9.9	-9.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	536	0.0	6.3	-6.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	140	0.0	2.4	-2.4
					ER-NER	0.0	18.6	-18.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3017	0.0	56.3	-56.3
2	HVDC	VINDHYACHAL B/B	-	364	0	9.7	0.0	9.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	299	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1973	0.0	26.6	-26.6
5	765 kV	GWALIOR-PHAGI	2	0	1891	0.0	37.8	-37.8
6	765 kV	JABALPUR-ORAI	2	0	945	0.0	33.7	-33.7
7	765 kV	GWALIOR-ORAI	1	694	0	13.9	0.0	13.9
8	765 kV	SATNA-ORAI	1	0	1082	0.0	22.0	-22.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1578	0	31.1	0.0	31.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3077	0.0	62.8	-62.8
11	400 kV	ZERDA-KANKROLI	1	362	0	6.7	0.0	6.7
12	400 kV	ZERDA -BHINMAL	1	487	0	9.8	0.0	9.8
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.7	0.0	22.7
14	400 kV	RAPP-SHUJALPUR	2	77	372	0.1	4.6	-4.5
15	220 kV	BHANPURA-RANPUR	1	52	71	0.2	0.6	-0.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.1	0.6
17	220 kV	MEHGAON-AURAIYA	1	120	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.9	0.0	1.9
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	97.9	251.9	-153.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	547	0	11.9	0.0	11.9
2	HVDC	RAIGARH-PUGALUR	2	2151	0	51.8	0.0	51.8
3	765 kV	SOLAPUR-RAICHUR	2	2190	790	20.1	3.0	17.1
4	765 kV	WARDHA-NIZAMABAD	2	514	1336	1.6	11.2	-9.6
5	400 kV	KOLHAPUR-KUDGI	2	1586	0	27.4	0.0	27.4
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	81	1.6	0.0	1.6
					WR-SR	114.5	14.2	100.3

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)	517	0	362	8.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	602	0	542	13.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	207	0	181	4.3
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	52	30	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-8	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	194	94	125	3.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	147	0	50	1.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-719	0	-429	-10.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-137	-3.3