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:09th 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 08.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th 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:** **09-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)	49484	52121	40648	22520	3109	167882
Peak Shortage (MW)	6213	834	0	1825	70	8942
Energy Met (MU)	1197	1202	952	489	60	3900
Hydro Gen (MU)	216	69	161	109	24	579
Wind Gen (MU)	6	17	72	-	-	95
Solar Gen (MU)*	63.51	39.70	83.01	4.74	0.24	191
Energy Shortage (MU)	84.70	3.09	4.11	21.34	0.50	113.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54099	52932	45911	23306	3169	172419
Time Of Maximum Demand Met (From NLDC SCADA)	11:58	18:59	10:22	19:57	17:55	11:56

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	0.075	0.38	2.78	19.13	22.29	73.05	4.66

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	8815	0	190.6	76.4	-0.5	246	8.88
	Haryana	8037	0	184.0	113.4	1.5	311	9.23
	Rajasthan	11479	2516	221.8	79.9	4.2	454	37.83
	Delhi	4839	0	103.8	70.3	-1.0	247	0.00
	UP	16557	190	371.9	155.6	1.2	367	22.17
	Uttarakhand	2066	0	39.2	17.1	2.3	289	3.14
	HP	1548	0	32.9	10.1	0.0	92	0.00
	J&K(UT) & Ladakh(UT)	2706	200	47.6	34.1	0.7	271	3.45
	Chandigarh	255	0	5.2	4.5	0.7	100	0.00
WR	Chhattisgarh	4138	0	98.3	53.9	2.1	556	2.08
	Gujarat	16126	0	359.6	200.9	1.7	623	0.65
	MP	10902	0	235.9	141.9	0.1	380	0.00
	Maharashtra	20302	0	450.3	139.8	-5.1	444	0.00
	Goa	595	40	13.4	12.3	0.6	38	0.12
	DD	335	0	7.5	6.7	0.8	86	0.24
	DNH	840	0	19.1	18.9	0.2	73	0.00
	AMNSIL	793	0	17.5	5.1	0.2	333	0.00
SR	Andhra Pradesh	8327	0	180.2	78.7	3.5	965	2.69
	Telangana	10759	0	210.1	46.9	-2.3	623	0.00
	Karnataka	8615	0	170.6	30.9	-2.9	849	0.20
	Kerala	3463	0	75.2	38.1	-0.1	288	1.22
	Tamil Nadu	14278	0	308.1	135.8	0.3	581	0.00
	Puducherry	385	0	8.2	8.2	0.0	43	0.00
ER	Bihar	5424	0	100.5	91.8	2.0	945	12.28
	DVC	3032	0	65.6	-20.1	1.2	438	1.33
	Jharkhand	1395	0	27.7	20.9	0.4	260	7.73
	Odisha	5748	0	117.0	32.4	-1.3	414	0.00
	West Bengal	8889	0	176.3	42.5	0.0	424	0.00
	Sikkim	102	0	1.6	1.6	0.0	25	0.00
NER	Arunachal Pradesh	146	0	2.3	2.1	0.0	98	0.00
	Assam	2045	0	39.6	30.9	0.7	205	0.50
	Manipur	209	0	2.7	2.8	-0.2	19	0.00
	Meghalaya	315	0	5.8	3.0	-0.1	142	0.00
	Mizoram	113	0	1.8	0.7	0.1	29	0.00
	Nagaland	139	0	2.5	2.0	0.0	32	0.00
	Tripura	311	0	5.6	4.6	-0.2	65	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	25.4	3.5	-19.7
Day Peak (MW)	1477.0	200.5	-849.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	199.5	-104.0	-11.1	-87.0	2.6	0.0
Actual(MU)	198.9	-106.0	-7.3	-93.0	0.6	-6.8
O/D/U/D(MU)	-0.6	-2.0	3.9	-5.9	-2.1	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4298	17275	8022	3385	409	33389	44
State Sector	10425	18515	9070	4860	11	42881	56
Total	14723	35790	17092	8245	420	76270	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	589	1114	527	484	11	2725	69
Lignite	24	9	36	0	0	69	2
Hydro	216	69	161	109	24	579	15
Nuclear	31	33	56	0	0	120	3
Gas, Naptha & Diesel	74	43	9	0	29	156	4
RES (Wind, Solar, Biomass & Others)	83	57	185	5	0	329	8
Total	1016	1325	975	597	64	3977	100

Share of RES in total generation (%)	8.15	4.31	18.93	0.79	0.37	8.28
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.41	11.95	41.25	19.02	37.80	25.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.067

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: 09-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	36.0	-36.0
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	306	52	3.3	0.0	3.3
4	765 kV	SASARAM-FATEHPUR	1	146	72	0.3	0.0	0.3
5	765 kV	GAYA-BALIA	1	0	293	0.0	5.9	-5.9
6	400 kV	PUSAULI-VARANASI	1	0	167	0.0	3.5	-3.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	137	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	76	418	0.0	3.1	-3.1
9	400 kV	PATNA-BALIA	4	0	399	0.0	6.0	-6.0
10	400 kV	BIHARSHARIFF-BALIA	2	265	19	2.8	0.0	2.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	266	0.0	3.7	-3.7
12	400 kV	BIHARSHARIFF-VARANASI	2	178	36	1.5	0.0	1.5
13	220 kV	PUSAULI-SAHUPURI	1	42	43	0.0	0.2	-0.2
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	1	0.0	0.0	0.0
					ER-NR	8.2	67.1	-58.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	635	436	1.0	0.0	1.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1237	0	19.5	0.0	19.5
3	765 kV	JHARSUGUDA-DURG	2	241	0	3.1	0.0	3.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	306	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	299	0	4.2	0.0	4.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	146	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	74	0	0.9	0.0	0.9
					ER-WR	28.8	6.6	22.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	448	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1396	0.0	30.2	-30.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2302	0.0	38.8	-38.8
4	400 kV	TALCHER-I/C	2	445	58	3.1	0.0	3.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	79.0	-79.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	478	0.0	9.1	-9.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	9	414	0.0	4.5	-4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	131	0.0	2.2	-2.2
					ER-NER	0.0	15.8	-15.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.4	-16.4
					NER-NR	0.0	16.4	-16.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2517	0.0	52.5	-52.5
2	HVDC	VINDHYACHAL B/B	-	451	0	11.8	0.0	11.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1634	0.0	23.9	-23.9
5	765 kV	GWALIOR-PHAGI	2	0	1782	0.0	35.1	-35.1
6	765 kV	JABALPUR-ORAI	2	0	815	0.0	29.4	-29.4
7	765 kV	GWALIOR-ORAI	1	657	0	13.4	0.0	13.4
8	765 kV	SATNA-ORAI	1	0	1010	0.0	21.6	-21.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1637	0	28.9	0.0	28.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2816	0.0	58.3	-58.3
11	400 kV	ZERDA-KANKROLI	1	372	0	6.4	0.0	6.4
12	400 kV	ZERDA -BHINMAL	1	529	0	9.3	0.0	9.3
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	75	294	0.0	3.4	-3.4
15	220 kV	BHANPURA-RANPUR	1	57	53	0.3	0.2	0.1
16	220 kV	BHANPURA-MORAK	1	0	30	1.1	0.0	1.1
17	220 kV	MEHGAON-AURAIYA	1	117	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	80	0	2.0	0.0	2.0
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	96.7	231.8	-135.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	405	0	9.8	0.0	9.8
2	HVDC	RAIGARH-PUGALUR	2	2148	0	45.8	0.0	45.8
3	765 kV	SOLAPUR-RAICHUR	2	1250	1567	0.0	4.0	-4.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2061	0.0	24.5	-24.5
5	400 kV	KOLHAPUR-KUDGI	2	1459	0	22.8	0.0	22.8
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	82	1.6	0.0	1.6
					WR-SR	80.0	28.6	51.4

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)	517	0	398	9.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	680	0	418	10.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	225	186	196	4.7
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	55	0	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-58	0	-3	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	178	72	115	2.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	81	-28	32	0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	-709	-722	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-126	0	-99	-2.4