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:05th 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 04.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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:** **05-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)	51201	51886	41115	20532	2810	167544
Peak Shortage (MW)	3042	0	0	984	0	4026
Energy Met (MU)	1209	1158	958	450	50	3825
Hydro Gen (MU)	263	79	170	117	26	655
Wind Gen (MU)	28	44	20	-	-	93
Solar Gen (MU)*	64.74	38.26	95.46	4.90	0.15	204
Energy Shortage (MU)	26.99	0.00	0.00	9.20	0.00	36.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54561	52056	46636	21307	2943	170353
Time Of Maximum Demand Met (From NLDC SCADA)	11:55	18:51	11:36	20:50	18:05	19:02

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	0.058	0.28	3.07	10.55	13.90	79.60	6.50

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	9278	0	193.2	100.4	-1.5	199	0.00
	Haryana	8732	0	181.1	129.6	0.4	371	8.41
	Rajasthan	10533	0	231.7	51.4	-0.2	369	1.53
	Delhi	5328	0	111.0	93.0	0.3	268	0.00
	UP	17080	360	371.3	155.9	2.3	1315	13.01
	Uttarakhand	2017	0	41.1	18.2	0.3	144	0.05
	HP	1433	0	29.6	1.7	1.8	210	0.54
	J&K(UT) & Ladakh(UT)	2307	200	44.3	26.3	-1.1	173	3.45
	Chandigarh	262	0	5.4	5.4	0.0	35	0.00
WR	Chhattisgarh	4200	0	96.8	46.6	-0.2	180	0.00
	Gujarat	15135	0	330.1	192.4	0.5	487	0.00
	MP	10479	0	224.2	135.2	1.1	584	0.00
	Maharashtra	20077	0	448.0	161.5	-1.6	1022	0.00
	Goa	644	0	13.3	12.2	0.5	38	0.00
	DD	344	0	7.5	7.0	0.5	88	0.00
	DNH	848	0	19.6	19.6	0.0	48	0.00
	AMNSIL	854	0	18.3	8.5	0.2	102	0.00
SR	Andhra Pradesh	9765	0	198.0	89.3	3.6	895	0.00
	Telangana	10261	0	202.0	36.7	-0.3	472	0.00
	Karnataka	9479	0	182.2	49.0	-1.4	432	0.00
	Kerala	3425	0	73.2	35.2	-0.5	286	0.00
	Tamil Nadu	14234	0	294.7	169.0	6.0	1608	0.00
	Puducherry	396	0	8.0	8.2	-0.2	28	0.00
ER	Bihar	4966	0	88.5	83.0	-0.8	561	5.79
	DVC	2895	0	61.2	-20.0	1.4	489	0.94
	Jharkhand	1399	0	27.0	21.0	-0.2	205	2.48
	Odisha	5350	0	110.3	29.3	0.1	491	0.00
	West Bengal	8305	0	161.0	35.9	0.1	349	0.00
	Sikkim	90	0	1.4	1.5	0.0	22	0.00
NER	Arunachal Pradesh	130	0	2.3	2.1	0.1	34	0.00
	Assam	1821	0	30.6	22.6	-0.1	170	0.00
	Manipur	180	0	2.6	2.6	0.0	25	0.00
	Meghalaya	325	0	5.8	1.1	-0.1	103	0.00
	Mizoram	108	0	1.7	0.9	0.3	14	0.00
	Nagaland	123	0	2.3	2.1	-0.2	12	0.00
	Tripura	304	0	5.0	5.5	0.2	141	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.6	2.1	-20.0
Day Peak (MW)	1848.0	201.0	-863.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	195.2	-83.9	29.9	-130.6	-10.6	0.0
Actual(MU)	186.2	-87.7	37.1	-125.9	-11.7	-2.0
O/D/U/D(MU)	-8.9	-3.8	7.2	4.8	-1.1	-2.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3728	17193	8412	3580	409	33321	42
State Sector	10600	20003	10280	4635	11	45529	58
Total	14328	37196	18692	8215	420	78850	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	579	1018	508	476	11	2593	66
Lignite	26	13	34	0	0	74	2
Hydro	263	79	170	117	26	655	17
Nuclear	31	33	65	0	0	128	3
Gas, Naptha & Diesel	35	33	10	0	30	109	3
RES (Wind, Solar, Biomass & Others)	110	83	147	5	0	345	9
Total	1044	1258	934	598	68	3903	100

Share of RES in total generation (%)	10.49	6.61	15.71	0.83	0.22	8.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.62	15.50	40.84	20.42	38.30	28.90

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.075

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: 05-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	38.6	-38.6
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	245	336	0.0	2.0	-2.0
4	765 kV	SASARAM-FATEHPUR	1	34	209	0.0	2.7	-2.7
5	765 kV	GAYA-BALIA	1	0	411	0.0	6.9	-6.9
6	400 kV	PUSAULI-VARANASI	1	0	186	0.0	3.1	-3.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	181	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	553	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	4	0	666	0.0	11.0	-11.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	169	0.0	2.2	-2.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	324	0.0	4.9	-4.9
12	400 kV	BIHARSHARIFF-VARANASI	2	82	166	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	1	15	45	0.0	0.5	-0.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	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	89.6	-89.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	789	155	9.3	0.0	9.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	755	345	10.2	0.0	10.2
3	765 kV	JHARSUGUDA-DURG	2	195	144	1.0	0.0	1.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	369	0.0	4.3	-4.3
5	400 kV	RANCHI-SIPAT	2	180	108	2.3	0.0	2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	128	0	1.9	0.0	1.9
					ER-WR	24.7	6.7	18.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	497	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	36.6	-36.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2380	0.0	42.7	-42.7
4	400 kV	TALCHER-I/C	2	0	290	0.0	3.7	-3.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	88.0	-88.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	312	0.0	4.6	-4.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	242	290	1.4	0.0	1.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.1	-1.1
					ER-NER	1.4	5.7	-4.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1004	0.0	23.9	-23.9
2	HVDC	VINDHYACHAL B/B	-	451	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	446	0.0	11.0	-11.0
4	765 kV	GWALIOR-AGRA	2	0	1681	0.0	24.3	-24.3
5	765 kV	GWALIOR-PHAGI	2	0	1446	0.0	27.9	-27.9
6	765 kV	JABALPUR-ORAI	2	0	746	0.0	26.6	-26.6
7	765 kV	GWALIOR-ORAI	1	778	0	12.5	0.0	12.5
8	765 kV	SATNA-ORAI	1	0	914	0.0	19.1	-19.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1541	0	25.3	0.0	25.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2475	0.0	45.8	-45.8
11	400 kV	ZERDA-KANKROLI	1	389	0	6.7	0.0	6.7
12	400 kV	ZERDA -BHINMAL	1	627	0	11.9	0.0	11.9
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	71	263	0.3	1.9	-1.6
15	220 kV	BHANPURA-RANPUR	1	36	38	0.1	0.2	-0.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.9	0.0	0.9
17	220 kV	MEHGAON-AURAIYA	1	162	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	124	0	3.8	0.0	3.8
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	97.1	180.6	-83.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	405	0	9.7	0.0	9.7
2	HVDC	RAIGARH-PUGALUR	2	973	0	23.3	0.0	23.3
3	765 kV	SOLAPUR-RAICHUR	2	397	1603	0.7	13.4	-12.7
4	765 kV	WARDHA-NIZAMABAD	2	0	1791	0.0	26.3	-26.3
5	400 kV	KOLHAPUR-KUDGI	2	1117	0	19.6	0.0	19.6
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	102	1.8	0.0	1.8
					WR-SR	55.1	39.8	15.4

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)	544	483	484	11.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	954	0	818	19.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	286	0	258	6.2
	NER	132kV GELEPHU-SALAKATI	17	6	12	0.3
	NER	132kV MOTANGA-RANGIA	47	29	39	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-56	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	176	0	57	1.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	81	0	33	0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	0	-716	-17.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-119	-2.9