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:03rd 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 02.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd 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:** **03-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)	49532	49323	38848	20784	3021	161508
Peak Shortage (MW)	550	336	0	606	0	1492
Energy Met (MU)	1148	1097	909	439	57	3649
Hydro Gen (MU)	272	54	153	114	24	618
Wind Gen (MU)	9	15	14	-	-	38
Solar Gen (MU)*	60.69	35.10	91.91	4.39	0.24	192
Energy Shortage (MU)	9.19	0.72	0.00	3.47	0.00	13.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53333	49976	42440	21035	3035	164960
Time Of Maximum Demand Met (From NLDC SCADA)	00:04	19:06	11:19	20:30	18:06	19:12

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	0.028	0.00	0.25	3.37	3.62	74.29	22.09

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	8595	0	192.1	99.8	-2.1	205	0.00
	Haryana	8128	31	172.0	127.6	-0.3	316	5.74
	Rajasthan	9343	0	209.1	54.3	-2.7	230	0.00
	Delhi	4993	0	97.9	81.5	-0.1	242	0.00
	UP	18548	0	366.1	125.4	-0.7	838	0.00
	Uttarakhand	1709	0	36.3	13.7	0.4	145	0.00
	HP	1358	0	29.0	0.3	-0.7	107	0.00
	J&K(UT) & Ladakh(UT)	2272	250	41.3	21.8	-2.0	445	3.45
	Chandigarh	228	0	4.8	5.1	-0.3	40	0.00
WR	Chhattisgarh	3777	0	90.0	41.0	0.8	263	0.00
	Gujarat	14119	0	317.6	187.2	4.8	820	0.72
	MP	9954	0	219.3	133.5	-0.5	675	0.00
	Maharashtra	19597	0	415.0	148.6	-2.6	585	0.00
	Goa	552	0	11.9	10.5	0.7	70	0.00
	DD	304	0	6.7	6.2	0.5	76	0.00
	DNH	796	0	18.4	17.9	0.5	78	0.00
	AMNSIL	818	0	17.6	7.3	0.8	97	0.00
SR	Andhra Pradesh	8788	0	188.3	81.9	2.0	611	0.00
	Telangana	9573	0	195.0	37.3	-0.3	600	0.00
	Karnataka	8420	0	170.4	51.8	-2.1	607	0.00
	Kerala	3237	0	68.7	37.3	-0.1	285	0.00
	Tamil Nadu	12346	0	279.1	182.1	2.1	958	0.00
	Puducherry	357	0	7.5	7.8	-0.3	25	0.00
ER	Bihar	4683	0	79.1	75.2	0.0	387	0.82
	DVC	3007	0	61.6	-13.3	5.5	449	0.51
	Jharkhand	1397	0	25.6	20.8	-1.9	210	2.14
	Odisha	5162	0	109.9	27.9	0.6	548	0.00
	West Bengal	8153	0	162.1	40.2	0.2	261	0.00
	Sikkim	56	0	1.1	1.4	-0.3	28	0.00
NER	Arunachal Pradesh	126	0	2.3	2.1	0.0	57	0.00
	Assam	1940	0	37.0	29.0	0.1	122	0.00
	Manipur	205	0	2.7	2.6	0.1	29	0.00
	Meghalaya	309	0	5.6	3.1	-0.2	53	0.00
	Mizoram	99	0	1.4	1.0	0.0	27	0.00
	Nagaland	139	0	2.6	2.2	0.0	2	0.00
	Tripura	300	0	5.0	4.8	-0.4	66	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	34.3	0.1	-20.0
Day Peak (MW)	1617.0	90.9	-866.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	145.8	-59.3	38.5	-123.6	-1.5	0.0
Actual(MU)	113.8	-48.3	40.8	-104.1	-3.0	-0.9
O/D/U/D(MU)	-32.0	11.0	2.2	19.5	-1.6	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4963	20899	7392	3330	409	36993	45
State Sector	9700	19793	10838	4925	11	45267	55
Total	14663	40692	18230	8255	420	82260	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	602	975	461	456	11	2504	67
Lignite	28	12	43	0	0	82	2
Hydro	272	54	154	114	24	618	17
Nuclear	31	33	65	0	0	129	3
Gas, Naptha & Diesel	35	32	9	0	30	106	3
RES (Wind, Solar, Biomass & Others)	85	51	137	4	0	278	7
Total	1051	1157	868	574	65	3716	100

Share of RES in total generation (%)	8.04	4.42	15.80	0.77	0.37	7.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.83	11.95	40.99	20.68	37.32	27.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.051

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: 03-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	1502	0.0	29.5	-29.5
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	356	96	1.9	0.0	1.9
4	765 kV	SASARAM-FATEHPUR	1	68	153	0.0	0.9	-0.9
5	765 kV	GAYA-BALIA	1	0	353	0.0	4.7	-4.7
6	400 kV	PUSAULI-VARANASI	1	0	189	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	118	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	364	0.0	4.5	-4.5
9	400 kV	PATNA-BALIA	4	12	516	0.0	7.8	-7.8
10	400 kV	BIHARSHARIFF-BALIA	2	152	86	0.6	0.0	0.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	231	0.0	3.5	-3.5
12	400 kV	BIHARSHARIFF-VARANASI	2	197	65	2.6	0.0	2.6
13	220 kV	PUSAULI-SAHUPURI	1	9748	33	0.3	0.0	0.3
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	5.6	62.9	-57.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	907	380	9.3	0.0	9.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	852	361	7.9	0.0	7.9
3	765 kV	JHARSUGUDA-DURG	2	145	134	0.0	0.0	0.0
4	400 kV	JHARSUGUDA-RAIGARH	4	25	311	0.0	3.4	-3.4
5	400 kV	RANCHI-SIPAT	2	191	117	1.9	0.0	1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	129	0	1.9	0.0	1.9
					ER-WR	21.0	5.8	15.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	497	0.0	11.2	-11.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2079	0.0	38.0	-38.0
4	400 kV	TALCHER-I/C	2	0	311	0.0	6.3	-6.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	88.9	-88.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	310	0.0	6.0	-6.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	69	304	0.0	2.9	-2.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	105	0.0	1.6	-1.6
					ER-NER	0.0	10.5	-10.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.1	-17.1
					NER-NR	0.0	17.1	-17.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1507	0.0	24.7	-24.7
2	HVDC	VINDHYACHAL B/B	-	449	0	8.3	0.0	8.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	495	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	189	1104	0.2	13.8	-13.7
5	765 kV	GWALIOR-PHAGI	2	0	1479	0.0	27.0	-27.0
6	765 kV	JABALPUR-ORAI	2	0	682	0.0	17.3	-17.3
7	765 kV	GWALIOR-ORAI	1	774	0	14.1	0.0	14.1
8	765 kV	SATNA-ORAI	1	0	859	0.0	16.1	-16.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1707	0	32.8	0.0	32.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2498	0.0	40.0	-40.0
11	400 kV	ZERDA-KANKROLI	1	401	0	7.8	0.0	7.8
12	400 kV	ZERDA -BHINMAL	1	659	0	12.3	0.0	12.3
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	201	248	1.2	1.5	-0.3
15	220 kV	BHANPURA-RANPUR	1	52	22	0.4	0.0	0.4
16	220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17	220 kV	MEHGAON-AURAIYA	1	184	0	2.2	0.0	2.2
18	220 kV	MALANPUR-AURAIYA	1	140	0	3.2	0.0	3.2
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	105.6	152.6	-46.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	496	0	11.9	0.0	11.9
2	HVDC	RAIGARH-PUGALUR	2	481	0	11.9	0.0	11.9
3	765 kV	SOLAPUR-RAICHUR	2	688	1316	1.3	10.4	-9.2
4	765 kV	WARDHA-NIZAMABAD	2	0	1804	0.0	24.7	-24.7
5	400 kV	KOLHAPUR-KUDGI	2	1147	0	21.6	0.0	21.6
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	74	1.5	0.0	1.5
					WR-SR	48.2	35.1	13.1

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)	512	0	403	9.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	727	0	681	16.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	293	0	261	6.3
	NER	132kV GELEPHU-SALAKATI	58	32	39	0.9
	NER	132kV MOTANGA-RANGIA	27	9	44	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-9	0	-1	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	100	-92	6	0.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-722	-713	-719	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-114	-2.7