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: 04th October 2022

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 03.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-अक्टूबर-2022 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 03rd Oct 2022, 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:** **04-Oct-2022**

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)	60083	55835	41811	22809	2739	183277
Peak Shortage (MW)	170	0	0	0	0	170
Energy Met (MU)	1298	1299	1103	512	53	4265
Hydro Gen (MU)	251	104	166	126	25	672
Wind Gen (MU)	13	46	159	-	-	219
Solar Gen (MU)*	126.23	51.19	106.72	4.47	0.28	289
Energy Shortage (MU)	1.32	0.00	0.00	0.20	0.00	1.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61031	58092	44934	23896	2794	184923
Time Of Maximum Demand Met (From NLDC SCADA)	19:20	10:56	10:58	00:06	17:46	19:13

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	0.021	0.00	0.00	2.42	2.42	86.36	11.23

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	8802	0	187.9	88.8	-0.2	154	0.00
	Haryana	8209	0	171.3	112.4	0.2	219	0.00
	Rajasthan	13263	0	279.4	103.1	3.1	432	0.51
	Delhi	4803	0	100.9	93.6	-1.3	135	0.00
	UP	21930	0	429.0	165.9	1.9	612	0.41
	Uttarakhand	2012	80	41.8	15.2	0.7	95	0.13
	HP	1604	0	32.0	5.3	0.4	97	0.00
	J&K(UT) & Ladakh(UT)	2713	0	51.1	38.3	0.9	183	0.27
	Chandigarh	253	0	5.0	4.9	0.1	35	0.00
WR	Chhattisgarh	4422	0	102.9	55.7	-2.1	165	0.00
	Gujarat	19952	0	413.4	264.2	1.0	785	0.00
	MP	10887	0	239.2	128.1	0.3	572	0.00
	Maharashtra	22081	0	490.3	197.2	2.0	1297	0.00
	Goa	637	0	12.0	12.4	-0.8	49	0.00
	DNHDDPDCL	1173	0	26.5	26.4	0.1	51	0.00
	AMNSIL	713	0	14.4	7.8	0.3	302	0.00
SR	Andhra Pradesh	8520	0	224.4	31.0	1.3	706	0.00
	Telangana	11339	0	264.0	44.5	1.5	723	0.00
	Karnataka	8444	0	184.1	43.3	-0.6	665	0.00
	Kerala	3691	0	77.1	44.2	0.3	172	0.00
	Tamil Nadu	14740	0	344.3	131.6	-0.1	836	0.00
	Puducherry	406	0	9.1	8.6	-0.3	27	0.00
ER	Bihar	6452	0	125.5	116.1	-0.5	392	0.20
	DVC	3176	0	68.8	-22.2	0.5	381	0.00
	Jharkhand	1463	0	31.9	22.0	-0.9	141	0.00
	Odisha	6103	0	137.4	53.7	-0.3	363	0.00
	West Bengal	7419	0	147.5	6.8	-1.2	645	0.00
	Sikkim	72	0	1.1	1.2	-0.1	26	0.00
NER	Arunachal Pradesh	129	0	2.3	2.1	0.0	39	0.00
	Assam	1812	0	33.9	27.4	-0.3	118	0.00
	Manipur	188	0	2.5	2.6	0.0	37	0.00
	Meghalaya	311	0	5.7	3.1	0.0	47	0.00
	Mizoram	101	0	1.6	0.5	-0.1	14	0.00
	Nagaland	138	0	2.6	2.1	-0.1	11	0.00
	Tripura	269	0	4.6	4.8	-0.2	48	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	27.2	10.6	-25.6
Day Peak (MW)	1427.0	397.8	-1096.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	185.2	-14.5	-3.8	-161.4	-5.5	0.0
Actual(MU)	188.7	-11.9	-12.0	-169.6	-7.2	-12.0
O/D/U/D(MU)	3.4	2.5	-8.2	-8.1	-1.6	-12.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2928	14931	8408	950	309	27525	42
State Sector	8085	18341	8798	3150	99	38473	58
Total	11012	33272	17206	4100	408	65997	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	735	1081	563	587	13	2978	66
Lignite	22	10	46	0	0	78	2
Hydro	252	104	166	126	25	673	14
Nuclear	29	40	64	0	0	133	4
Gas, Naptha & Diesel	14	3	11	0	29	56	1
RES (Wind, Solar, Biomass & Others)	146	99	267	4	0	517	12
Total	1197	1337	1117	717	67	4435	100

Share of RES in total generation (%)	12.19	7.40	23.90	0.62	0.42	11.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.69	18.17	44.30	18.15	37.56	30.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.072

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: 04-Oct-2022

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	701	0.0	16.5	-16.5
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.6	-8.6
3	765 kV	GAYA-VARANASI	2	133	825	0.0	7.5	-7.5
4	765 kV	SASARAM-FATEHPUR	1	57	467	0.0	4.5	-4.5
5	765 kV	GAYA-BALIA	1	0	618	0.0	10.8	-10.8
6	400 kV	PUSAULI-VARANASI	1	0	238	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	196	0.0	3.8	-3.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1133	0.0	20.4	-20.4
9	400 kV	PATNA-BALIA	2	0	620	0.0	8.8	-8.8
10	400 kV	NAUBATPUR-BALIA	2	0	663	0.0	11.3	-11.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	487	0.0	7.9	-7.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	653	0.0	10.6	-10.6
13	400 kV	BIHARSHARIFF-VARANASI	2	66	347	0.0	3.6	-3.6
14	220 kV	SAHUPURI-KARAMNASA	1	18	137	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	4	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	120.6	-120.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	767	187	5.9	0.0	5.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	593	432	5.2	0.0	5.2
3	765 kV	JHARSUGUDA-DURG	2	0	488	0.0	6.4	-6.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	645	0.0	10.1	-10.1
5	400 kV	RANCHI-SIPAT	2	230	319	0.0	0.9	-0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	14	129	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	66	48	0.3	0.0	0.3
					ER-WR	11.3	18.6	-7.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	586	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	32.5	-32.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2513	0.0	39.5	-39.5
4	400 kV	TALCHER-I/C	2	690	0	11.5	0.0	11.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	84.3	-84.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	37	389	0.0	4.1	-4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	194	469	0.0	3.9	-3.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	67	0.0	0.8	-0.8
					ER-NER	0.0	8.9	-8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	0.0	16.8	-16.8
					NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1011	0.0	23.9	-23.9
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	261	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1218	0.0	15.6	-15.6
5	765 kV	GWALIOR-PHAGI	2	0	1927	0.0	32.4	-32.4
6	765 kV	JABALPUR-ORAI	2	0	837	0.0	24.7	-24.7
7	765 kV	GWALIOR-ORAI	1	786	0	12.3	0.0	12.3
8	765 kV	SATNA-ORAI	1	0	987	0.0	19.9	-19.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2545	0	42.0	0.0	42.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2882	0.0	42.2	-42.2
11	400 kV	ZERDA-KANKROLI	1	469	0	7.3	0.0	7.3
12	400 kV	ZERDA -BHINMAL	1	673	0	8.7	0.0	8.7
13	400 kV	VINDHYACHAL -RIHAND	1	970	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	228	526	0.0	4.4	-4.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	116	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.5	0.0	1.5
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	106.7	170.6	-63.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	493	0	12.0	0.0	12.0
2	HVDC	RAIGARH-PUGALUR	2	577	0	13.9	0.0	13.9
3	765 kV	SOLAPUR-RAICHUR	2	2054	421	19.5	0.0	19.5
4	765 kV	WARDHA-NIZAMABAD	2	376	2275	0.0	22.9	-22.9
5	400 kV	KOLHAPUR-KUDGI	2	1252	0	20.0	0.0	20.0
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	107	2.1	0.0	2.1
					WR-SR	67.4	22.9	44.5

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)	387	0	348	8.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	857	683	704	16.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	193	0	158	3.8
	NER	132kV GELEPHU-SALAKATI	-28	-12	-19	-0.4
	NER	132kV MOTANGA-RANGIA	-57	-28	-40	-1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-45	0	-3	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	-4	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	447	281	446	10.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-955	-940	-947	-22.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-141	0	-122	-2.9