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: 10th 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 09.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th 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:** **10-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)	46920	51085	36906	23870	2775	161556
Peak Shortage (MW)	0	0	0	121	0	121
Energy Met (MU)	1014	1183	869	528	51	3646
Hydro Gen (MU)	222	105	165	136	34	661
Wind Gen (MU)	12	26	12	-	-	49
Solar Gen (MU)*	110.57	44.02	65.91	4.77	0.36	226
Energy Shortage (MU)	0.21	0.00	0.00	2.41	0.00	2.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47942	52817	40573	24201	2841	164032
Time Of Maximum Demand Met (From NLDC SCADA)	19:08	18:50	09:49	18:51	18:00	18:51

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	0.020	0.00	0.00	1.47	1.47	83.22	15.31

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	9486	0	190.0	117.2	-0.8	153	0.00
	Haryana	5482	0	117.9	69.9	1.0	266	0.00
	Rajasthan	10837	0	232.8	65.0	0.7	338	0.00
	Delhi	3422	0	68.4	67.6	-1.1	42	0.00
	UP	14923	0	283.3	90.6	-0.1	445	0.05
	Uttarakhand	1559	0	33.0	13.3	-0.3	138	0.16
	HP	1603	0	32.0	7.7	0.0	64	0.00
	J&K(UT) & Ladakh(UT)	2754	0	52.5	39.2	1.3	179	0.00
	Chandigarh	206	0	4.0	4.1	-0.1	28	0.00
WR	Chhattisgarh	4331	0	101.5	51.6	0.1	212	0.00
	Gujarat	17991	0	383.7	237.8	-4.6	586	0.00
	MP	9407	0	197.2	84.0	-0.1	675	0.00
	Maharashtra	20325	0	447.4	178.9	-2.7	721	0.00
	Goa	585	0	11.5	11.5	-0.2	57	0.00
	DNHDDPDCL	1159	0	27.2	26.9	0.3	69	0.00
	AMNSIL	661	0	14.1	7.5	0.4	278	0.00
SR	Andhra Pradesh	7859	0	168.8	57.6	-0.3	446	0.00
	Telangana	9016	0	170.8	24.9	-0.5	516	0.00
	Karnataka	8818	0	170.5	61.9	0.2	776	0.00
	Kerala	3388	0	69.3	42.1	0.8	330	0.00
	Tamil Nadu	12879	0	281.7	177.5	1.0	691	0.00
	Puducherry	346	0	8.2	8.1	-0.5	45	0.00
ER	Bihar	5737	121	122.3	111.6	0.7	294	2.03
	DVC	3272	0	71.5	-22.3	0.6	221	0.00
	Jharkhand	1677	0	32.8	25.0	-1.2	152	0.37
	Odisha	5911	0	131.7	48.3	-1.3	452	0.00
	West Bengal	8221	0	168.7	36.5	-0.3	320	0.00
	Sikkim	79	0	1.2	1.1	0.0	25	0.00
NER	Arunachal Pradesh	118	0	2.1	2.1	-0.3	22	0.00
	Assam	1766	0	31.8	24.4	0.2	158	0.00
	Manipur	186	0	2.6	2.6	-0.1	60	0.00
	Meghalaya	306	0	5.7	3.4	0.0	47	0.00
	Mizoram	94	0	1.5	0.5	-0.4	3	0.00
	Nagaland	138	0	2.5	2.2	-0.3	3	0.00
	Tripura	285	0	5.4	5.1	-0.2	32	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.0	9.4	-26.3
Day Peak (MW)	2006.0	413.0	-1115.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	111.9	-53.1	65.3	-108.5	-15.7	0.0
Actual(MU)	100.0	-52.7	87.1	-122.9	-16.6	-5.0
O/D/U/D(MU)	-11.9	0.4	21.8	-14.4	-0.9	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6182	15831	7748	1270	309	31339	47
State Sector	9585	15001	7840	2170	78	34674	53
Total	15767	30832	15588	3440	387	66013	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	578	1035	415	540	11	2579	68
Lignite	24	10	49	0	0	82	2
Hydro	223	105	165	136	34	662	17
Nuclear	30	40	64	0	0	134	4
Gas, Naptha & Diesel	4	2	6	0	30	42	1
RES (Wind, Solar, Biomass & Others)	129	71	113	5	0	319	8
Total	988	1262	813	681	75	3819	100

Share of RES in total generation (%)	13.09	5.63	13.95	0.69	0.48	8.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.70	17.10	42.19	20.63	45.46	29.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
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: 10-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	17.3	-17.3
2	HVDC	PUSAULI B/B	-	0	348	0.0	7.9	-7.9
3	765 kV	GAYA-VARANASI	2	534	371	2.3	0.0	2.3
4	765 kV	SASARAM-FATEHPUR	1	120	258	0.0	1.6	-1.6
5	765 kV	GAYA-BALIA	1	0	344	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	0	253	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	182	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	951	0.0	15.6	-15.6
9	400 kV	PATNA-BALIA	2	0	432	0.0	6.3	-6.3
10	400 kV	NAUBATPUR-BALIA	2	0	455	0.0	6.4	-6.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	371	0.0	5.1	-5.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	474	0.0	7.4	-7.4
13	400 kV	BIHARSHARIFF-VARANASI	2	187	178	0.2	0.0	0.2
14	220 kV	SAHUPURI-KARAMNASA	1	21	131	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	56	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	2.9	81.9	-78.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	798	168	8.8	0.0	8.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	244	386	1.7	0.0	1.7
3	765 kV	JHARSUGUDA-DURG	2	0	411	0.0	7.0	-7.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	410	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	64	239	0.0	1.0	-1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	13	79	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	115	0	1.7	0.0	1.7
					ER-WR	12.3	14.1	-1.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	754	0.0	12.9	-12.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1593	0.0	38.5	-38.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2372	0.0	37.9	-37.9
4	400 kV	TALCHER-I/C	2	298	626	1.5	0.0	1.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	89.2	-89.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	110	197	0.5	0.8	-0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	259	229	0.9	0.0	0.9
3	220 kV	ALIPURDUAR-SALAKATI	2	18	45	0.0	0.3	-0.3
					ER-NER	1.3	1.1	0.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	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	2013	0.0	23.7	-23.7
2	HVDC	VINDHYACHAL B/B	-	449	0	12.0	0.0	12.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	511	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	159	548	0.4	4.6	-4.3
5	765 kV	GWALIOR-PHAGI	2	397	1648	1.0	22.3	-21.4
6	765 kV	JABALPUR-ORAI	2	138	245	0.0	4.2	-4.2
7	765 kV	GWALIOR-ORAI	1	739	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	706	0.0	14.6	-14.6
9	765 kV	BANASKANTHA-CHITORGARH	2	2091	0	37.9	0.0	37.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2027	0.0	38.6	-38.6
11	400 kV	ZERDA-KANKROLI	1	413	0	7.4	0.0	7.4
12	400 kV	ZERDA -BHINMAL	1	651	0	9.3	0.0	9.3
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	462	175	3.0	1.1	1.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	92	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	73	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	106.6	121.9	-15.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	809	0.0	19.4	-19.4
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	21.1	-21.1
3	765 kV	SOLAPUR-RAICHUR	2	962	944	5.9	2.5	3.4
4	765 kV	WARDHA-NIZAMABAD	2	0	1772	0.0	17.9	-17.9
5	400 kV	KOLHAPUR-KUDGI	2	863	0	13.6	0.0	13.6
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	107	2.0	0.0	2.0
					WR-SR	21.5	60.9	-39.4

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)	673	488	521	12.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1083	801	970	23.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	204	170	180	4.3
	NER	132kV GELEPHU-SALAKATI	28	11	20	0.5
	NER	132kV MOTANGA-RANGIA	53	23	25	0.6
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-11	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	424	351	392	9.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-948	-936	-946	-22.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-167	0	-148	-3.6