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: 23rd September 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 22.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-सितंबर-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 22nd Sep 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:** **23-Sep-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 20:00 hrs; from RLDCs)	55858	49417	45110	26053	3245	179683
Peak Shortage (MW)	0	0	0	631	0	631
Energy Met (MU)	1263	1177	1063	560	63	4126
Hydro Gen (MU)	340	107	172	140	29	788
Wind Gen (MU)	21	128	158	-	-	306
Solar Gen (MU)*	108.77	42.69	109.68	4.55	0.59	266
Energy Shortage (MU)	0.95	0.00	0.00	2.08	0.00	3.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58248	53662	50071	26391	3370	185934
Time Of Maximum Demand Met (From NLDC SCADA)	19:27	18:51	10:39	19:25	18:07	19:16

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	0.027	0.00	0.67	3.06	3.73	83.95	12.32

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	11249	0	239.9	162.1	-1.5	100	0.00
	Haryana	7187	0	156.7	105.2	-2.8	244	0.00
	Rajasthan	12959	0	282.5	107.3	-0.1	452	0.45
	Delhi	4718	0	98.7	87.9	-2.8	34	0.00
	UP	19122	0	354.9	145.0	-2.3	354	0.22
	Uttarakhand	2050	0	43.7	17.7	0.0	79	0.00
	HP	1571	0	31.0	-3.2	-0.5	52	0.00
	J&K(UT) & Ladakh(UT)	2660	100	49.9	27.5	1.0	303	0.27
	Chandigarh	257	0	5.4	6.1	-0.7	2	0.00
WR	Chhattisgarh	4198	0	97.5	44.2	0.3	238	0.00
	Gujarat	18522	0	387.9	227.8	-3.7	501	0.00
	MP	9417	0	195.6	60.5	-1.7	668	0.00
	Maharashtra	20444	0	443.7	164.8	-2.5	742	0.00
	Goa	623	0	12.1	12.6	-0.9	22	0.00
	DNHDDPDCL	1203	0	27.3	27.3	0.0	74	0.00
	AMNSIL	603	0	13.3	7.1	0.0	266	0.00
SR	Andhra Pradesh	10358	0	210.7	59.1	0.2	813	0.00
	Telangana	11315	0	205.9	61.4	0.9	587	0.00
	Karnataka	11103	0	205.4	62.0	-0.9	591	0.00
	Kerala	3850	0	79.2	42.0	-0.1	199	0.00
	Tamil Nadu	16315	0	351.8	151.5	0.1	1194	0.00
	Puducherry	444	0	10.0	9.3	0.0	70	0.00
ER	Bihar	6451	511	126.0	114.7	0.6	291	0.90
	DVC	3474	0	73.9	-16.5	0.2	267	0.00
	Jharkhand	1653	0	33.3	23.6	0.5	212	1.19
	Odisha	6049	0	138.0	57.0	-1.1	368	0.00
	West Bengal	9131	0	186.6	56.2	-0.3	257	0.00
	Sikkim	107	0	1.7	1.7	0.1	18	0.00
NER	Arunachal Pradesh	127	0	2.2	2.2	-0.2	30	0.00
	Assam	2201	0	42.4	35.9	0.1	120	0.00
	Manipur	203	0	2.8	2.8	0.0	43	0.00
	Meghalaya	337	0	5.9	1.6	0.0	64	0.00
	Mizoram	87	0	1.6	1.2	-0.1	4	0.00
	Nagaland	157	0	2.8	2.4	-0.1	37	0.00
	Tripura	310	0	5.7	5.7	0.1	67	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	40.9	8.3	-25.8
Day Peak (MW)	2021.0	328.0	-1079.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	200.4	-137.7	26.1	-85.6	-3.2	0.0
Actual(MU)	166.9	-120.0	40.4	-78.3	-0.2	8.8
O/D/U/D(MU)	-33.4	17.7	14.2	7.3	3.0	8.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3652	16916	6618	1060	309	28554	43
State Sector	9170	16746	7812	4340	162	38229	57
Total	12822	33662	14430	5400	470	66783	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	642	1019	476	523	12	2672	62
Lignite	22	5	48	0	0	75	2
Hydro	342	107	172	140	29	790	18
Nuclear	29	40	42	0	0	110	3
Gas, Naptha & Diesel	17	2	8	0	29	56	1
RES (Wind, Solar, Biomass & Others)	136	172	317	5	1	630	15
Total	1188	1344	1064	667	71	4333	100

Share of RES in total generation (%)	11.44	12.77	29.79	0.68	0.83	14.53
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.69	23.67	49.93	21.66	41.85	35.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.078

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: 23-Sep-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	703	0.0	18.1	-18.1
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.7	-8.7
3	765 kV	GAYA-VARANASI	2	640	357	6.0	0.0	6.0
4	765 kV	SASARAM-FATEHPUR	1	202	212	0.0	0.7	-0.7
5	765 kV	GAYA-BALIA	1	0	478	0.0	6.4	-6.4
6	400 kV	PUSAULI-VARANASI	1	0	261	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	170	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	738	0.0	11.4	-11.4
9	400 kV	PATNA-BALIA	2	0	478	0.0	6.4	-6.4
10	400 kV	NAUBATPUR-BALIA	2	0	504	0.0	6.4	-6.4
11	400 kV	BIHARSHARIFF-BALIA	2	47	346	0.0	3.4	-3.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	427	0.0	5.6	-5.6
13	400 kV	BIHARSHARIFF-VARANASI	2	245	143	1.5	0.0	1.5
14	220 kV	SAHUPURI-KARAMNASA	1	38	90	0.0	0.6	-0.6
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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	7.9	75.3	-67.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1331	0	19.0	0.0	19.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1165	371	13.7	0.0	13.7
3	765 kV	JHARSUGUDA-DURG	2	9	322	0.0	3.0	-3.0
4	400 kV	JHARSUGUDA-RAIGARH	4	205	314	0.0	2.2	-2.2
5	400 kV	RANCHI-SIPAT	2	288	139	2.6	0.0	2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	41	69	0.0	0.2	-0.2
7	220 kV	BUDHIPADAR-KORBA	2	204	0	3.5	0.0	3.5
					ER-WR	38.7	5.4	33.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	294	646	0.0	1.1	-1.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	32.3	-32.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2694	0.0	41.9	-41.9
4	400 kV	TALCHER-I/C	2	679	203	7.4	0.0	7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	75.3	-75.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	505	0.0	7.0	-7.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	686	0.0	7.7	-7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	98	0.0	1.4	-1.4
					ER-NER	0.0	16.1	-16.1
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	757	0.0	29.9	-29.9
2	HVDC	VINDHYACHAL B/B	-	449	246	22.2	0.2	22.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1128	0.1	15.6	-15.5
5	765 kV	GWALIOR-PHAGI	2	247	1758	0.2	23.1	-23.0
6	765 kV	JABALPUR-ORAI	2	5	618	0.0	15.3	-15.3
7	765 kV	GWALIOR-ORAI	1	852	0	13.5	0.0	13.5
8	765 kV	SATNA-ORAI	1	0	751	0.0	15.7	-15.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1467	0	21.3	0.0	21.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3121	0.0	52.1	-52.1
11	400 kV	ZERDA-KANKROLI	1	244	0	1.5	0.0	1.5
12	400 kV	ZERDA -BHINMAL	1	467	0	4.7	0.0	4.7
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	262	489	1.0	5.6	-4.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	95	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	71	0	1.1	0.0	1.1
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	87.8	166.1	-78.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	980	0	16.3	0.0	16.3
2	HVDC	RAIGARH-PUGALUR	2	0	1004	0.0	18.9	-18.9
3	765 kV	SOLAPUR-RAICHUR	2	1312	1296	6.9	6.4	0.5
4	765 kV	WARDHA-NIZAMABAD	2	134	2801	0.1	34.2	-34.2
5	400 kV	KOLHAPUR-KUDGI	2	1505	0	26.0	0.0	26.0
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	101	1.9	0.0	1.9
					WR-SR	51.1	59.5	-8.4

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)	670	0	541	13.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1083	894	999	24.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	228	47	212	5.1
	NER	132kV GELEPHU-SALAKATI	41	10	20	0.5
	NER	132kV MOTANGA-RANGIA	51	-23	28	0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	379	204	358	8.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-922	-917	-919	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-157	0	-156	-3.7