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: 29thSeptember 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 28.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28thSep 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:** **29-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)	58781	53409	44522	25269	3203	185184
Peak Shortage (MW)	150	0	0	928	0	1078
Energy Met (MU)	1241	1289	1066	552	62	4211
Hydro Gen (MU)	314	104	153	134	27	733
Wind Gen (MU)	17	37	114	-	-	168
Solar Gen (MU)*	118.37	46.44	88.03	5.32	0.75	259
Energy Shortage (MU)	0.85	0.00	0.00	5.44	0.00	6.29
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60446	57213	51432	25525	3291	189447
Time Of Maximum Demand Met (From NLDC SCADA)	19:28	19:16	10:30	21:07	18:19	19:29

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	2.08	2.08	83.42	14.50

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	7833	0	167.2	109.1	-1.7	118	0.00
	Haryana	7832	0	156.2	111.1	0.7	207	0.00
	Rajasthan	12312	0	275.1	90.9	1.5	408	0.23
	Delhi	4896	0	103.0	95.3	-0.8	183	0.00
	UP	21738	0	411.6	152.0	0.8	354	0.00
	Uttarakhand	2060	0	41.9	16.0	-0.1	196	0.00
	HP	1603	0	31.6	-1.8	1.2	154	0.00
	J&K(UT) & Ladakh(UT)	2502	50	49.3	28.5	3.7	510	0.62
	Chandigarh	250	0	4.8	5.0	-0.3	36	0.00
WR	Chhattisgarh	4576	0	105.0	58.2	-1.5	156	0.00
	Gujarat	20011	0	413.8	240.1	-0.6	728	0.00
	MP	10973	0	232.1	102.2	0.0	656	0.00
	Maharashtra	22137	0	484.4	184.9	-0.8	720	0.00
	Goa	646	0	12.4	12.7	-0.7	17	0.00
	DNHDDPDCL	1223	0	28.3	28.1	0.2	53	0.00
	AMNSIL	597	0	13.4	7.5	-0.2	237	0.00
SR	Andhra Pradesh	10021	0	209.3	73.5	-0.7	754	0.00
	Telangana	11992	0	217.0	75.6	0.1	655	0.00
	Karnataka	11818	0	216.3	89.9	1.9	523	0.00
	Kerala	3876	0	79.3	48.0	0.0	320	0.00
	Tamil Nadu	15251	0	334.8	161.7	0.4	1488	0.00
	Puducherry	421	0	9.4	8.9	-0.1	38	0.00
ER	Bihar	6063	517	127.0	114.3	1.0	271	3.64
	DVC	3545	0	74.4	-13.9	0.6	270	0.00
	Jharkhand	1552	100	30.7	23.3	-1.3	171	1.80
	Odisha	6298	0	129.8	52.7	-1.3	424	0.00
	West Bengal	8877	0	188.6	45.0	-1.1	316	0.00
	Sikkim	110	0	1.7	1.7	0.0	21	0.00
NER	Arunachal Pradesh	113	0	1.9	1.9	-0.3	45	0.00
	Assam	2189	0	41.6	34.8	0.0	108	0.00
	Manipur	198	0	2.6	2.7	0.0	22	0.00
	Meghalaya	356	0	6.1	2.9	-0.1	41	0.00
	Mizoram	89	0	1.8	0.7	0.2	30	0.00
	Nagaland	151	0	2.5	2.1	-0.1	18	0.00
	Tripura	307	0	5.3	5.5	-0.1	43	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	33.7	7.7	-25.4
Day Peak (MW)	1701.0	345.0	-1088.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	130.2	-67.3	57.2	-117.3	-2.8	0.0
Actual(MU)	113.4	-68.5	84.6	-113.9	-2.5	13.2
O/D/U/D(MU)	-16.8	-1.2	27.4	3.4	0.3	13.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3872	15971	5098	1720	459	27119	44
State Sector	9385	14554	8084	2660	141	34823	56
Total	13257	30525	13182	4380	599	61942	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	680	1138	521	563	14	2915	66
Lignite	28	13	52	0	0	93	2
Hydro	316	104	153	134	27	735	17
Nuclear	25	40	60	0	0	125	3
Gas, Naptha & Diesel	14	4	9	0	29	57	1
RES (Wind, Solar, Biomass & Others)	142	85	243	5	1	476	11
Total	1204	1384	1038	702	71	4400	100

Share of RES in total generation (%)	11.75	6.16	23.40	0.76	1.05	10.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.08	16.57	43.97	19.89	38.77	30.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.079

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: 29-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	701	0.0	16.8	-16.8
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.2	-8.2
3	765 kV	GAYA-VARANASI	2	557	223	3.3	0.0	3.3
4	765 kV	SASARAM-FATEHPUR	1	87	233	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	1	0	499	0.0	6.8	-6.8
6	400 kV	PUSAULI-VARANASI	1	0	287	0.0	5.4	-5.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	163	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	761	0.0	12.4	-12.4
9	400 kV	PATNA-BALIA	2	0	491	0.0	9.2	-9.2
10	400 kV	NAUBATPUR-BALIA	2	0	512	0.0	9.5	-9.5
11	400 kV	BIHARSHARIFF-BALIA	2	0	408	0.0	7.0	-7.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	444	0.0	7.3	-7.3
13	400 kV	BIHARSHARIFF-VARANASI	2	208	141	0.1	0.0	0.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	131	0.0	1.7	-1.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	59	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	3.7	89.6	-85.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1249	413	14.6	0.0	14.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	472	255	8.3	0.0	8.3
3	765 kV	JHARSUGUDA-DURG	2	0	347	0.0	4.5	-4.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	453	0.0	5.1	-5.1
5	400 kV	RANCHI-SIPAT	2	164	193	1.5	0.0	1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	1	115	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	156	2	2.1	0.0	2.1
					ER-WR	26.4	10.9	15.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	669	0.0	7.7	-7.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1976	0.0	38.3	-38.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2550	0.0	39.8	-39.8
4	400 kV	TALCHER-I/C	2	473	241	5.3	0.0	5.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	85.7	-85.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	34	312	0.0	3.7	-3.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	140	390	0.0	3.1	-3.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	60	0.0	0.8	-0.8
					ER-NER	0.0	7.7	-7.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	12.2	-12.2
					NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1520	0.0	15.9	-15.9
2	HVDC	VINDHYACHAL B/B	-	445	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	261	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	327	908	0.6	9.6	-8.9
5	765 kV	GWALIOR-PHAGI	2	441	1576	1.6	18.9	-17.2
6	765 kV	JABALPUR-ORAI	2	128	770	0.0	16.9	-16.9
7	765 kV	GWALIOR-ORAI	1	755	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	843	0.0	15.4	-15.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2107	0	33.6	0.0	33.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2670	0.0	40.6	-40.6
11	400 kV	ZERDA-KANKROLI	1	411	0	6.0	0.0	6.0
12	400 kV	ZERDA -BHINMAL	1	741	0	8.4	0.0	8.4
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	490	349	3.3	3.0	0.3
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	108	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	128	0	0.9	0.0	0.9
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	101.5	127.7	-26.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	11.9	-11.9
2	HVDC	RAIGARH-PUGALUR	2	0	1501	0.0	27.8	-27.8
3	765 kV	SOLAPUR-RAICHUR	2	1260	580	10.1	1.3	8.8
4	765 kV	WARDHA-NIZAMABAD	2	45	2346	0.0	25.8	-25.8
5	400 kV	KOLHAPUR-KUDGI	2	1642	0	28.1	0.0	28.1
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	40.1	66.8	-26.7

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)	504	0	461	11.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	908	0	840	20.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	215	0	183	4.4
	NER	132kV GELEPHU-SALAKATI	-28	-15	-23	-0.5
	NER	132kV MOTANGA-RANGIA	-57	-15	-56	-1.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-13	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	413	203	332	8.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-923	-910	-919	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-165	0	-142	-3.4