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: 28thSeptember 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 27.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27thSep 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:** **28-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)	56739	53696	44723	25661	3112	183931
Peak Shortage (MW)	50	0	0	586	0	636
Energy Met (MU)	1193	1280	1058	548	61	4140
Hydro Gen (MU)	333	107	171	141	29	781
Wind Gen (MU)	15	31	61	-	-	107
Solar Gen (MU)*	118.27	47.29	96.17	5.16	0.65	268
Energy Shortage (MU)	3.78	0.00	0.00	4.28	0.00	8.06
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57622	57826	50332	26000	3144	186138
Time Of Maximum Demand Met (From NLDC SCADA)	19:55	18:54	10:54	20:15	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	0.036	0.64	1.28	2.40	4.32	82.33	13.35

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	7267	0	156.1	107.5	-1.7	94	0.00
	Haryana	7278	0	150.4	114.1	-0.4	198	0.00
	Rajasthan	12265	0	269.1	85.4	0.2	302	1.51
	Delhi	4771	0	99.1	91.7	-1.1	117	0.00
	UP	20996	0	393.7	151.6	1.0	424	1.08
	Uttarakhand	1987	0	41.3	16.7	0.5	218	0.07
	HP	1566	0	30.8	-4.4	0.0	51	0.00
	J&K(UT) & Ladakh(UT)	2403	0	48.5	25.7	1.9	261	1.12
	Chandigarh	240	0	4.6	5.1	-0.5	14	0.00
WR	Chhattisgarh	4665	0	110.4	58.0	-0.2	233	0.00
	Gujarat	19507	0	411.9	251.0	-3.1	675	0.00
	MP	10700	0	224.7	98.0	0.0	780	0.00
	Maharashtra	22028	0	478.5	175.5	0.2	710	0.00
	Goa	616	0	12.3	12.5	-0.7	32	0.00
	DNHDDPDCL	1199	0	27.9	27.9	0.0	82	0.00
	AMNSIL	665	0	14.2	8.4	-0.3	253	0.00
SR	Andhra Pradesh	10370	0	212.4	68.3	1.0	685	0.00
	Telangana	11693	0	213.3	67.8	0.2	735	0.00
	Karnataka	11357	0	212.8	86.7	1.6	767	0.00
	Kerala	3902	0	79.1	45.0	-0.1	165	0.00
	Tamil Nadu	15670	0	331.3	171.2	3.6	1256	0.00
	Puducherry	418	0	9.4	9.1	-0.4	35	0.00
ER	Bihar	5950	225	122.7	111.2	0.9	310	2.38
	DVC	3565	0	74.9	-2.5	1.8	299	0.00
	Jharkhand	1593	0	31.5	23.4	-1.1	198	1.90
	Odisha	6159	0	125.5	48.1	-0.6	561	0.00
	West Bengal	9186	0	191.7	47.4	0.1	351	0.00
	Sikkim	104	0	1.7	1.6	0.1	25	0.00
NER	Arunachal Pradesh	94	0	1.3	1.7	-0.8	43	0.00
	Assam	2147	0	41.8	34.0	3.3	155	0.00
	Manipur	192	0	2.8	2.6	0.2	31	0.00
	Meghalaya	338	0	5.9	2.7	-0.2	47	0.00
	Mizoram	88	0	1.5	0.7	-0.2	3	0.00
	Nagaland	147	0	2.6	2.1	-0.2	18	0.00
	Tripura	304	0	5.3	6.0	0.5	39	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.9	7.7	-24.6
Day Peak (MW)	1947.0	316.1	-1031.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	114.9	-64.9	66.7	-110.9	-5.7	0.0
Actual(MU)	92.7	-59.7	86.6	-110.4	-3.3	5.9
O/D/U/D(MU)	-22.2	5.3	19.9	0.5	2.4	5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3982	17891	4848	1720	309	28749	42
State Sector	9630	14699	9434	5120	162	39044	58
Total	13612	32590	14282	6840	470	67793	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	636	1122	520	544	13	2836	66
Lignite	28	13	56	0	0	97	2
Hydro	335	107	171	141	29	783	18
Nuclear	25	40	59	0	0	124	3
Gas, Naptha & Diesel	14	4	9	0	28	55	1
RES (Wind, Solar, Biomass & Others)	139	79	201	5	1	425	10
Total	1177	1365	1016	691	71	4320	100

Share of RES in total generation (%)	11.78	5.82	19.77	0.74	0.92	9.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.32	16.60	42.45	21.21	41.20	30.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.082

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: 28-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	17.3	-17.3
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.3	-8.3
3	765 kV	GAYA-VARANASI	2	719	413	2.8	0.0	2.8
4	765 kV	SASARAM-FATEHPUR	1	194	334	0.0	2.2	-2.2
5	765 kV	GAYA-BALIA	1	14	457	0.0	5.1	-5.1
6	400 kV	PUSAULI-VARANASI	1	0	279	0.0	5.6	-5.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	160	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	876	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	2	0	489	0.0	7.7	-7.7
10	400 kV	NAUBATPUR-BALIA	2	0	515	0.0	7.9	-7.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	389	0.0	5.7	-5.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	482	0.0	7.7	-7.7
13	400 kV	BIHARSHARIFF-VARANASI	2	254	216	0.0	0.6	-0.6
14	220 kV	SAHUPURI-KARAMNASA	1	1	134	0.0	1.7	-1.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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	3.2	86.4	-83.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1513	0	17.5	0.0	17.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	473	100	9.3	0.0	9.3
3	765 kV	JHARSUGUDA-DURG	2	0	400	0.0	4.5	-4.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	540	0.0	6.6	-6.6
5	400 kV	RANCHI-SIPAT	2	224	245	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	1	154	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	123	28	1.1	0.0	1.1
					ER-WR	29.2	12.2	16.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	892	332	2.1	0.0	2.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	43.4	-43.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3236	0.0	45.4	-45.4
4	400 kV	TALCHER-I/C	2	277	265	0.1	0.0	0.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	2.1	88.9	-86.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	141	287	0.2	3.5	-3.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	290	372	0.0	3.4	-3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	12	62	0.0	0.9	-0.9
					ER-NER	0.2	7.7	-7.5
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	1008	0.0	17.6	-17.6
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	310	0.0	4.5	-4.5
4	765 kV	GWALIOR-AGRA	2	300	797	0.7	8.1	-7.4
5	765 kV	GWALIOR-PHAGI	2	685	1477	2.3	18.8	-16.5
6	765 kV	JABALPUR-ORAI	2	191	663	0.0	13.1	-13.1
7	765 kV	GWALIOR-ORAI	1	754	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	757	0.0	14.9	-14.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2405	0	37.9	0.0	37.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2331	0.0	38.2	-38.2
11	400 kV	ZERDA-KANKROLI	1	467	0	7.2	0.0	7.2
12	400 kV	ZERDA -BHINMAL	1	797	0	10.0	0.0	10.0
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	551	284	3.8	2.6	1.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
17	220 kV	MEHGAON-AURAIYA	1	126	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	93	0	3.1	0.0	3.1
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	112.1	118.9	-6.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	512	0.0	11.9	-11.9
2	HVDC	RAIGARH-PUGALUR	2	0	2004	0.0	30.5	-30.5
3	765 kV	SOLAPUR-RAICHUR	2	1135	1586	7.8	2.9	4.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3057	0.0	27.9	-27.9
5	400 kV	KOLHAPUR-KUDGI	2	1456	0	27.4	0.0	27.4
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	100	1.9	0.0	1.9
					WR-SR	37.0	73.1	-36.1

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)	628	0	532	12.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1074	0	951	22.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	264	207	210	5.1
	NER	132kV GELEPHU-SALAKATI	-28	-10	-22	-0.5
	NER	132kV MOTANGA-RANGIA	-67	-24	-50	-1.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-27	-0.6
	ER	NEPAL IMPORT (FROM BIHAR)	-8	0	-1	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	396	261	349	8.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-910	-811	-897	-21.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-121	0	-128	-3.1