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: 11th 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 10.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 10th 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:** **11-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)	71791	51708	39172	24762	3116	190549
Peak Shortage (MW)	204	0	0	554	0	758
Energy Met (MU)	1693	1252	865	554	61	4425
Hydro Gen (MU)	362	102	171	152	32	819
Wind Gen (MU)	4	27	204	-	-	235
Solar Gen (MU)*	105.32	41.75	77.00	4.25	0.88	229
Energy Shortage (MU)	2.31	0.00	0.00	1.30	0.02	3.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74758	55502	39389	25225	3141	190471
Time Of Maximum Demand Met (From NLDC SCADA)	22:39	11:16	19:19	00:03	19:05	11:58

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	0.022	0.00	0.00	4.76	4.76	87.11	8.14

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	13764	0	305.9	180.6	-1.8	42	0.00
	Haryana	11574	0	250.6	183.8	-1.1	102	0.00
	Rajasthan	15538	86	326.6	143.7	0.5	286	0.82
	Delhi	6542	0	133.8	121.6	-0.8	189	0.00
	UP	26002	0	537.8	259.1	-1.7	455	0.00
	Uttarakhand	2234	0	47.0	23.1	0.4	180	0.75
	HP	1646	0	34.7	-0.9	-0.3	62	0.19
	J&K(UT) & Ladakh(UT)	2490	200	50.1	25.3	0.0	210	0.55
	Chandigarh	312	0	6.6	6.5	0.1	33	0.00
WR	Chhattisgarh	4893	0	116.7	63.7	-0.4	200	0.00
	Gujarat	18795	0	380.8	249.2	-8.6	533	0.00
	MP	10742	0	243.8	127.3	0.0	854	0.00
	Maharashtra	21178	0	456.7	163.1	-1.6	746	0.00
	Goa	597	0	12.5	11.9	0.6	40	0.00
	DNHDDPDCL	1213	0	27.3	27.5	-0.2	149	0.00
	AMNSIL	657	0	14.0	7.4	0.4	191	0.00
SR	Andhra Pradesh	7930	0	171.3	25.6	-1.0	593	0.00
	Telangana	8413	0	163.0	26.8	0.9	827	0.00
	Karnataka	7810	0	155.1	33.9	-1.7	583	0.00
	Kerala	3183	0	66.6	22.0	-0.9	160	0.00
	Tamil Nadu	13911	0	299.8	106.9	-2.4	753	0.00
	Puducherry	416	0	9.1	8.5	-0.1	34	0.00
ER	Bihar	6468	365	131.4	122.3	-1.4	321	0.40
	DVC	3387	0	74.1	-27.6	0.5	357	0.00
	Jharkhand	1549	189	34.0	23.2	-0.3	192	0.90
	Odisha	5574	0	122.1	37.3	-0.7	499	0.00
	West Bengal	9099	0	190.6	58.5	-1.0	631	0.00
	Sikkim	97	0	1.5	1.6	0.0	20	0.00
NER	Arunachal Pradesh	124	0	2.3	2.2	0.1	34	0.00
	Assam	2109	0	41.2	34.4	-0.2	110	0.00
	Manipur	187	0	2.7	2.5	0.1	47	0.02
	Meghalaya	324	0	6.0	0.9	0.2	58	0.00
	Mizoram	102	0	1.7	0.8	0.0	18	0.00
	Nagaland	152	0	2.8	2.4	0.0	20	0.00
	Tripura	255	0	4.6	4.7	-0.2	56	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.0	8.9	-25.7
Day Peak (MW)	2077.0	381.0	-1071.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	418.5	-130.0	-122.0	-158.1	-8.5	0.0
Actual(MU)	432.2	-127.3	-133.0	-164.4	-10.5	-3.0
O/D/U/D(MU)	13.7	2.7	-11.0	-6.3	-2.0	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3502	10889	6558	1870	309	23127	38
State Sector	6775	17131	10697	2900	178	37680	62
Total	10277	28020	17255	4770	486	60807	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	802	1191	444	590	17	3043	66
Lignite	31	7	43	0	0	82	2
Hydro	362	102	171	152	32	819	17
Nuclear	33	38	42	0	0	113	2
Gas, Naptha & Diesel	19	4	8	0	29	60	1
RES (Wind, Solar, Biomass & Others)	128	70	319	4	1	522	11
Total	1375	1413	1027	746	79	4639	100

Share of RES in total generation (%)	9.40	4.93	31.06	0.57	1.11	11.28
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.62	14.88	51.77	20.93	41.91	31.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.099

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: 11-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	1503	0.0	34.6	-34.6
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	0	825	0.0	9.6	-9.6
4	765 kV	SASARAM-FATEHPUR	1	0	516	0.0	8.0	-8.0
5	765 kV	GAYA-BALIA	1	0	752	0.0	14.7	-14.7
6	400 kV	PUSAULI-VARANASI	1	0	185	0.0	3.7	-3.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	219	0.0	4.5	-4.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1035	0.0	20.8	-20.8
9	400 kV	PATNA-BALIA	2	0	756	0.0	14.8	-14.8
10	400 kV	NAUBATPUR-BALIA	2	0	765	0.0	15.3	-15.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	670	0.0	12.0	-12.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	664	0.0	11.7	-11.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	400	0.0	5.2	-5.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	145	0.0	2.7	-2.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
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	0.6	165.7	-165.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	711	793	0.0	1.1	-1.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1724	0	25.4	0.0	25.4
3	765 kV	JHARSUGUDA-DURG	2	0	475	0.0	5.3	-5.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	591	0.0	8.5	-8.5
5	400 kV	RANCHI-SIPAT	2	312	68	3.6	0.0	3.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	200	0.0	3.2	-3.2
7	220 kV	BUDHIPADAR-KORBA	2	42	71	0.0	0.1	-0.1
					ER-WR	29.0	18.1	10.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	687	0	13.1	0.0	13.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1191	0.0	23.5	-23.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2475	0.0	35.1	-35.1
4	400 kV	TALCHER-I/C	2	1488	0	15.8	0.0	15.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	13.1	58.5	-45.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	350	0.0	5.9	-5.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	11	385	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	115	0.0	1.9	-1.9
					ER-NER	0.0	11.0	-11.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1001	0.0	22.8	-22.8
					NER-NR	0.0	22.8	-22.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5533	0.0	71.4	-71.4
2	HVDC	VINDHYACHAL B/B	-	272	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2022	0.0	23.0	-23.0
4	765 kV	GWALIOR-AGRA	2	0	1698	0.0	30.0	-30.0
5	765 kV	GWALIOR-PHAGI	2	0	2239	0.0	44.3	-44.3
6	765 kV	JABALPUR-ORAI	2	0	1344	0.0	46.7	-46.7
7	765 kV	GWALIOR-ORAI	1	659	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	1102	0.0	24.3	-24.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1454	253	16.3	0.0	16.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3544	0.0	63.8	-63.8
11	400 kV	ZERDA-KANKROLI	1	273	82	2.8	0.0	2.8
12	400 kV	ZERDA -BHINMAL	1	409	212	2.2	0.0	2.2
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	0	750	0.0	11.7	-11.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	57	45	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	54	12	1.2	0.0	1.2
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	62.7	316.1	-253.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2878	0	69.0	0.0	69.0
3	765 kV	SOLAPUR-RAICHUR	2	1793	281	20.6	0.0	20.6
4	765 kV	WARDHA-NIZAMABAD	2	470	1676	0.0	13.0	-13.0
5	400 kV	KOLHAPUR-KUDGI	2	1806	0	34.7	0.0	34.7
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	1	86	1.7	0.0	1.7
					WR-SR	150.0	13.0	137.1

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)	750	719	748	18.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1062	0	1045	25.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	232	0	206	4.9
	NER	132kV GELEPHU-SALAKATI	-25	-12	-19	-0.4
	NER	132kV MOTANGA-RANGIA	-50	-8	-36	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-30	-0.7
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	455	217	400	9.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-921	-919	-921	-22.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-152	-3.6