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: 22nd 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 21.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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:** **22-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)	59573	49536	45256	25110	3414	182889
Peak Shortage (MW)	0	0	0	216	0	216
Energy Met (MU)	1372	1171	1053	541	65	4202
Hydro Gen (MU)	330	107	176	142	28	782
Wind Gen (MU)	24	86	133	-	-	244
Solar Gen (MU)*	110.33	45.80	104.68	4.49	0.48	266
Energy Shortage (MU)	0.65	0.00	0.00	2.24	0.00	2.89
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62030	53218	49045	25868	3451	188011
Time Of Maximum Demand Met (From NLDC SCADA)	11:32	19:01	09:50	18:57	18:18	19:00

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	0.039	0.00	1.35	4.72	6.08	75.92	18.01

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	13021	0	273.1	169.6	-2.2	82	0.00
	Haryana	8864	0	186.9	125.1	-1.5	270	0.00
	Rajasthan	13490	0	295.1	106.9	0.2	343	0.00
	Delhi	5167	0	106.8	96.0	-1.8	117	0.00
	UP	19731	0	379.3	148.1	-0.1	501	0.33
	Uttarakhand	2090	0	43.8	18.0	-0.1	182	0.00
	HP	1603	0	31.9	-0.8	-0.3	84	0.00
	J&K(UT) & Ladakh(UT)	2626	0	49.7	27.6	1.7	184	0.32
	Chandigarh	308	0	5.8	6.0	-0.3	43	0.00
WR	Chhattisgarh	4087	0	94.6	46.6	-1.1	179	0.00
	Gujarat	17139	0	374.7	225.3	-1.9	457	0.00
	MP	9472	0	204.1	72.5	3.4	397	0.00
	Maharashtra	20747	0	444.3	170.4	-4.1	657	0.00
	Goa	629	0	12.2	12.8	-0.7	33	0.00
	DNHDDPDCL	1224	0	28.2	28.1	0.1	48	0.00
	AMNSIL	593	0	13.1	6.9	-0.1	250	0.00
SR	Andhra Pradesh	10354	0	209.3	58.1	1.5	715	0.00
	Telangana	11126	0	206.2	59.4	0.7	803	0.00
	Karnataka	10921	0	199.0	64.4	-0.4	556	0.00
	Kerala	3771	0	78.5	39.5	-0.2	240	0.00
	Tamil Nadu	16390	0	350.6	153.8	-0.3	643	0.00
	Puducherry	428	0	9.7	9.3	-0.3	57	0.00
ER	Bihar	6224	0	117.0	105.6	0.1	334	1.04
	DVC	3372	0	74.7	-19.6	2.0	418	0.00
	Jharkhand	1635	207	31.5	22.8	0.5	306	1.20
	Odisha	6379	0	135.9	50.6	0.3	560	0.00
	West Bengal	8985	0	179.8	47.5	-0.7	266	0.00
	Sikkim	108	0	1.7	1.6	0.1	26	0.00
NER	Arunachal Pradesh	142	0	2.4	2.3	-0.1	28	0.00
	Assam	2314	0	43.6	37.4	0.0	113	0.00
	Manipur	192	0	2.7	2.6	0.1	33	0.00
	Meghalaya	328	0	6.2	1.5	0.3	66	0.00
	Mizoram	89	0	1.6	1.1	-0.1	6	0.00
	Nagaland	155	0	2.8	2.5	0.0	8	0.00
	Tripura	323	0	5.4	5.9	0.1	48	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.2	8.7	-25.8
Day Peak (MW)	1908.0	375.0	-1080.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.4	-127.2	14.9	-123.1	-1.1	0.0
Actual(MU)	218.2	-130.4	30.2	-123.0	1.9	-3.2
O/D/U/D(MU)	-18.2	-3.3	15.3	0.1	2.9	-3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3652	15406	5908	1060	344	26369	42
State Sector	6790	17121	8562	3670	162	36304	58
Total	10442	32527	14470	4730	505	62673	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	709	1048	491	549	13	2809	64
Lignite	21	4	58	0	0	83	2
Hydro	330	107	176	142	28	782	18
Nuclear	24	33	42	0	0	100	2
Gas, Naptha & Diesel	16	2	9	0	29	56	1
RES (Wind, Solar, Biomass & Others)	150	133	285	5	0	574	13
Total	1251	1327	1061	695	70	4404	100

Share of RES in total generation (%)	12.10	10.04	26.89	0.65	0.68	13.06
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.89	20.60	47.44	21.03	40.37	32.92

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.085

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: 22-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	700	0.0	17.5	-17.5
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.3	-8.3
3	765 kV	GAYA-VARANASI	2	433	610	0.0	1.2	-1.2
4	765 kV	SASARAM-FATEHPUR	1	64	379	0.0	3.0	-3.0
5	765 kV	GAYA-BALIA	1	0	562	0.0	9.3	-9.3
6	400 kV	PUSAULI-VARANASI	1	0	238	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	201	0.0	3.5	-3.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	866	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	2	0	587	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	0	631	0.0	10.2	-10.2
11	400 kV	BIHARSHARIFF-BALIA	2	0	467	0.0	6.7	-6.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	484	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	149	250	0.0	0.7	-0.7
14	220 kV	SAHUPURI-KARAMNASA	1	20	89	0.0	0.7	-0.7
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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.3	97.3	-97.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	775	379	4.0	0.0	4.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	970	868	7.5	0.0	7.5
3	765 kV	JHARSUGUDA-DURG	2	0	500	0.0	5.3	-5.3
4	400 kV	JHARSUGUDA-RAIGARH	4	17	462	0.0	3.7	-3.7
5	400 kV	RANCHI-SIPAT	2	217	275	1.4	0.0	1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	23	80	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	159	36	1.5	0.0	1.5
					ER-WR	14.3	9.5	4.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	861	0.0	12.2	-12.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	16	1190	0.0	13.8	-13.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2349	0.0	34.4	-34.4
4	400 kV	TALCHER-I/C	2	1905	0	26.3	0.0	26.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	60.5	-60.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	398	0.0	7.1	-7.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	549	0.0	9.1	-9.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	80	0.0	1.5	-1.5
					ER-NER	0.0	17.7	-17.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	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	2026	0.0	43.4	-43.4
2	HVDC	VINDHYACHAL B/B	-	227	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1278	0.1	17.4	-17.3
5	765 kV	GWALIOR-PHAGI	2	0	1911	0.0	29.1	-29.1
6	765 kV	JABALPUR-ORAI	2	0	750	0.0	20.1	-20.1
7	765 kV	GWALIOR-ORAI	1	867	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	822	0.0	16.8	-16.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1692	0	25.1	0.0	25.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2902	0.0	50.8	-50.8
11	400 kV	ZERDA-KANKROLI	1	298	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	445	0	5.6	0.0	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	58	619	0.1	7.1	-7.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	110	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	73	2	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	80.0	193.5	-113.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	980	0	11.8	0.0	11.8
2	HVDC	RAIGARH-PUGALUR	2	0	2507	0.0	32.9	-32.9
3	765 kV	SOLAPUR-RAICHUR	2	1147	1010	10.7	2.7	8.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2677	0.0	28.3	-28.3
5	400 kV	KOLHAPUR-KUDGI	2	1613	0	27.3	0.0	27.3
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	51.7	63.8	-12.1

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)	560	0	493	11.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1077	0	977	23.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	236	0	215	5.2
	NER	132kV GELEPHU-SALAKATI	22	8	16	0.4
	NER	132kV MOTANGA-RANGIA	44	22	34	0.8
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	375	218	374	9.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-922	-916	-919	-22.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-155	-3.7