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: 20th 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 19.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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: 20-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)	64417	49779	43774	23700	3392	185062
Peak Shortage (MW)	325	0	0	182	0	507
Energy Met (MU)	1436	1169	1035	527	64	4231
Hydro Gen (MU)	328	117	181	150	30	806
Wind Gen (MU)	25	62	163	-	-	250
Solar Gen (MU)*	119.13	43.46	96.46	4.49	0.77	264
Energy Shortage (MU)	2.55	0.00	0.00	5.39	0.10	8.04
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64765	52665	49825	23888	3448	188296
Time Of Maximum Demand Met (From NLDC SCADA)	20:36	18:56	10:13	00:25	19:02	11:55

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	0.034	0.00	0.66	7.64	8.30	83.14	8.56

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	12153	0	265.5	150.0	-0.8	136	0.00
	Haryana	10191	0	213.3	138.4	-0.7	99	0.00
	Rajasthan	14247	0	298.6	100.9	2.0	328	0.93
	Delhi	5318	0	111.5	101.1	-2.4	194	0.00
	UP	20962	0	414.7	155.9	-0.6	373	0.00
	Uttarakhand	2013	40	42.3	15.4	0.7	161	0.34
	HP	1708	0	34.9	3.2	0.4	109	0.00
	J&K(UT) & Ladakh(UT)	2465	0	49.0	26.1	1.9	279	1.28
	Chandigarh	281	0	5.9	5.8	0.1	32	0.00
WR	Chhattisgarh	4283	0	98.6	56.3	-1.3	312	0.00
	Gujarat	16624	0	356.0	237.5	-1.3	1273	0.00
	MP	10264	0	221.1	103.5	-0.1	304	0.00
	Maharashtra	20440	0	441.6	163.4	-4.0	805	0.00
	Goa	622	0	11.3	12.0	-1.2	59	0.00
	DNHDDPDCL	1181	0	27.0	26.8	0.2	82	0.00
	AMNSIL	673	0	13.8	6.8	0.7	358	0.00
SR	Andhra Pradesh	9521	0	200.1	52.0	-1.6	815	0.00
	Telangana	12528	0	221.0	74.5	1.1	891	0.00
	Karnataka	10391	0	191.2	50.3	-1.5	460	0.00
	Kerala	3767	0	76.7	38.0	-1.8	245	0.00
	Tamil Nadu	16029	0	336.6	132.7	-0.3	741	0.00
	Puducherry	418	0	9.2	8.5	0.0	57	0.00
ER	Bihar	5857	0	116.8	106.9	0.1	492	1.79
	DVC	3419	0	74.6	-16.7	2.8	441	0.00
	Jharkhand	1543	211	31.4	21.3	-0.2	208	3.60
	Odisha	5746	0	124.0	43.4	-1.4	390	0.00
	West Bengal	8584	0	178.2	46.0	0.2	435	0.00
	Sikkim	104	0	1.6	1.6	0.0	15	0.00
NER	Arunachal Pradesh	142	0	2.5	2.4	-0.2	29	0.00
	Assam	2268	0	43.2	35.8	0.2	131	0.00
	Manipur	187	40	2.7	2.6	0.2	39	0.10
	Meghalaya	341	0	6.1	1.1	0.1	44	0.00
	Mizoram	111	0	1.5	1.1	0.1	27	0.00
	Nagaland	168	0	2.9	2.5	0.0	14	0.00
	Tripura	296	0	5.2	5.6	0.0	62	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	41.5	9.8	-24.4
Day Peak (MW)	1935.0	359.0	-1047.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.0	-111.8	29.9	-137.2	-4.0	0.0
Actual(MU)	223.3	-116.7	30.8	-136.2	-3.0	-1.8
O/D/U/D(MU)	0.2	-4.9	0.9	1.0	1.0	-1.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4905	15256	7718	1510	309	29697	43
State Sector	5720	20246	9022	3630	263	38880	57
Total	10624	35502	16740	5140	571	68577	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	758	1041	457	543	14	2814	64
Lignite	22	7	47	0	0	76	2
Hydro	318	117	181	150	30	796	18
Nuclear	22	33	42	0	0	97	2
Gas, Naptha & Diesel	19	4	9	0	28	60	1
RES (Wind, Solar, Biomass & Others)	161	106	310	5	1	583	13
Total	1300	1309	1046	698	74	4426	100

Share of RES in total generation (%)	12.42	8.13	29.58	0.65	1.05	13.16
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.60	19.54	50.94	22.15	41.82	33.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.088

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: 20-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	17.0	-17.0
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	207	663	0.0	2.7	-2.7
4	765 kV	SASARAM-FATEHPUR	1	0	434	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	592	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	190	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	961	0.0	17.4	-17.4
9	400 kV	PATNA-BALIA	2	0	598	0.0	12.2	-12.2
10	400 kV	NAUBATPUR-BALIA	2	0	647	0.0	12.9	-12.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	444	0.0	6.4	-6.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	554	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	104	242	0.0	0.5	-0.5
14	220 kV	SAHUPURI-KARAMNASA	1	7	104	0.0	1.3	-1.3
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	0.5	109.9	-109.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1245	425	8.5	0.0	8.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	925	501	9.7	0.0	9.7
3	765 kV	JHARSUGUDA-DURG	2	0	309	0.0	3.2	-3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	450	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	194	197	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	55	64	0.0	0.0	0.0
7	220 kV	BUDHIPADAR-KORBA	2	162	112	0.7	0.0	0.7
					ER-WR	20.2	8.6	11.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	544	0.0	10.8	-10.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1644	0.0	38.6	-38.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2356	0.0	27.8	-27.8
4	400 kV	TALCHER-I/C	2	695	23	5.5	0.0	5.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	77.1	-77.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	388	0.0	5.1	-5.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	40	540	0.0	6.1	-6.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	81	0.0	1.2	-1.2
					ER-NER	0.0	12.4	-12.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	700	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2040	0.0	43.0	-43.0
2	HVDC	VINDHYACHAL B/B	-	447	0	6.6	0.0	6.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	310	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	157	1257	0.2	18.2	-17.9
5	765 kV	GWALIOR-PHAGI	2	0	1961	0.0	28.4	-28.4
6	765 kV	JABALPUR-ORAI	2	0	754	0.0	20.2	-20.2
7	765 kV	GWALIOR-ORAI	1	888	0	16.5	0.0	16.5
8	765 kV	SATNA-ORAI	1	0	796	0.0	16.5	-16.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1686	0	26.7	0.0	26.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2716	0.0	48.5	-48.5
11	400 kV	ZERDA-KANKROLI	1	332	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	578	0	7.0	0.0	7.0
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	157	649	0.5	6.8	-6.3
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	127	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	92	0	1.8	0.0	1.8
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	87.4	190.3	-102.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	512	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	1001	0.0	24.3	-24.3
3	765 kV	SOLAPUR-RAICHUR	2	1928	1318	24.3	1.8	22.6
4	765 kV	WARDHA-NIZAMABAD	2	582	2639	2.3	17.0	-14.7
5	400 kV	KOLHAPUR-KUDGI	2	1361	0	24.3	0.0	24.3
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	99	1.8	0.0	1.8
					WR-SR	52.7	55.0	-2.3

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)	630	0	557	13.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1077	0	1027	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	229	198	202	4.9
	NER	132kV GELEPHU-SALAKATI	-23	-9	-17	-0.4
	NER	132kV MOTANGA-RANGIA	-54	-31	-40	-1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-66	0	-8	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	425	199	415	10.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-914	-900	-906	-21.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-133	0	-112	-2.7