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 Sep 2021

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 19.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-सितंबर-2021 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 September 2021, 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-2021**

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)	57103	45268	40458	22553	2939	168321
Peak Shortage (MW)	200	0	0	466	0	666
Energy Met (MU)	1222	1072	1031	476	53	3854
Hydro Gen (MU)	319	47	158	124	30	678
Wind Gen (MU)	6	54	31	-	-	91
Solar Gen (MU)*	48.29	29.67	96.88	4.64	0.24	180
Energy Shortage (MU)	3.87	0.10	0.00	5.85	0.00	9.82
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58293	46364	49586	22692	2939	169420
Time Of Maximum Demand Met (From NLDC SCADA)	20:14	07:46	11:48	19:09	20:00	19:44

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	0.026	0.00	0.17	4.04	4.21	81.66	14.13

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	10870	0	253.6	164.0	-1.4	240	0.00
	Haryana	7494	0	163.9	121.0	0.6	346	0.00
	Rajasthan	9453	0	215.2	74.1	1.4	388	0.07
	Delhi	4567	0	93.0	83.8	-2.5	48	0.00
	UP	20092	0	373.4	122.2	0.5	336	0.35
	Uttarakhand	1873	0	41.2	12.4	0.9	109	0.00
	HP	1356	0	29.5	-4.8	-0.2	71	0.00
	J&K(UT) & Ladakh(UT)	2377	250	46.5	23.4	-0.3	240	3.45
	Chandigarh	271	0	5.3	5.4	-0.1	22	0.00
WR	Chhattisgarh	3511	0	84.0	40.4	0.2	303	0.00
	Gujarat	12400	80	286.6	166.9	-0.7	754	0.10
	MP	9300	0	202.0	116.2	-1.2	519	0.00
	Maharashtra	19962	0	444.0	160.3	-2.4	859	0.00
	Goa	543	0	11.6	10.4	0.5	51	0.00
	DD	320	0	7.2	6.9	0.3	30	0.00
	DNH	820	0	19.3	19.2	0.1	35	0.00
	AMNSIL	767	0	17.3	5.2	-0.7	157	0.00
SR	Andhra Pradesh	10338	0	205.0	94.5	0.7	764	0.00
	Telangana	11939	0	231.0	62.7	0.6	638	0.00
	Karnataka	11481	0	209.8	33.2	1.1	699	0.00
	Kerala	3372	0	69.6	46.2	-0.1	216	0.00
	Tamil Nadu	13756	0	307.2	187.0	-0.3	734	0.00
	Puducherry	392	0	8.3	8.5	-0.3	28	0.00
ER	Bihar	6185	0	118.6	111.0	0.5	429	2.70
	DVC	3117	0	66.4	-42.8	3.4	638	0.35
	Jharkhand	1515	0	27.4	22.3	-2.4	169	2.80
	Odisha	5501	0	111.5	43.6	-1.7	340	0.00
	West Bengal	7678	0	151.1	34.7	0.5	453	0.00
	Sikkim	68	0	1.1	1.2	-0.1	17	0.00
NER	Arunachal Pradesh	144	0	2.3	2.3	-0.2	36	0.00
	Assam	1912	0	34.4	27.2	0.4	104	0.00
	Manipur	185	0	2.4	2.5	-0.1	20	0.00
	Meghalaya	330	0	5.6	1.4	-0.1	54	0.00
	Mizoram	92	0	1.3	1.1	-0.2	21	0.00
	Nagaland	138	0	2.5	2.2	-0.2	28	0.00
	Tripura	260	0	4.4	4.1	-0.2	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	28.2	0.5	-20.1
Day Peak (MW)	1846.0	-5.4	-866.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	196.1	-106.9	55.0	-131.4	-12.8	0.0
Actual(MU)	189.3	-118.3	69.4	-128.3	-16.0	-3.9
O/D/U/D(MU)	-6.8	-11.4	14.5	3.1	-3.2	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5718	18552	6902	2375	580	34126	46
State Sector	8180	21073	6595	3965	11	39824	54
Total	13898	39625	13497	6340	591	73950	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	583	1014	565	514	16	2691	68
Lignite	28	10	42	0	0	80	2
Hydro	319	47	158	124	30	678	17
Nuclear	31	28	55	0	0	114	3
Gas, Naptha & Diesel	24	14	11	0	28	76	2
RES (Wind, Solar, Biomass & Others)	71	85	167	5	0	327	8
Total	1055	1198	997	642	74	3966	100

Share of RES in total generation (%)	6.75	7.07	16.72	0.72	0.32	8.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.88	13.35	38.06	20.02	41.24	28.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
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-2021

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	1451	0.0	35.0	-35.0
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	284	127	2.2	0.0	2.2
4	765 kV	SASARAM-FATEHPUR	1	125	95	0.2	0.0	0.2
5	765 kV	GAYA-BALIA	1	0	544	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	1	0	210	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	82	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	571	0.0	9.1	-9.1
9	400 kV	PATNA-BALIA	4	0	811	0.0	13.7	-13.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	210	0.0	3.4	-3.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	350	0.0	6.0	-6.0
12	400 kV	BIHARSHARIFF-VARANASI	2	91	70	0.5	0.0	0.5
13	220 kV	PUSAULI-SAHUPURI	1	50	76	0.0	0.4	-0.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	3.4	86.5	-83.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	485	597	0.0	0.8	-0.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1009	265	8.6	0.0	8.6
3	765 kV	JHARSUGUDA-DURG	2	0	313	0.0	3.7	-3.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	395	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	212	123	1.0	0.0	1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	112	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	100	0	1.3	0.0	1.3
					ER-WR	10.9	11.4	-0.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	448	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1651	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2460	0.0	43.3	-43.3
4	400 kV	TALCHER-I/C	2	242	124	3.9	0.0	3.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	93.0	-93.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	134	237	0.0	2.1	-2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	28	0	2.9	0.0	2.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	44	0.0	0.7	-0.7
					ER-NER	2.9	2.8	0.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	17.6	-17.6
					NER-NR	0.0	17.6	-17.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	956	0.0	22.8	-22.8
2	HVDC	VINDHYACHAL B/B	-	136	103	0.4	0.0	0.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	443	0.0	10.9	-10.9
4	765 kV	GWALIOR-AGRA	2	17	1232	0.0	17.9	-17.9
5	765 kV	GWALIOR-PHAGI	2	0	1785	0.0	32.6	-32.6
6	765 kV	JABALPUR-ORAI	2	0	678	0.0	21.9	-21.9
7	765 kV	GWALIOR-ORAI	1	725	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	839	0.0	17.7	-17.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1483	0	24.4	0.0	24.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2856	0.0	46.6	-46.6
11	400 kV	ZERDA-KANKROLI	1	313	0	5.4	0.0	5.4
12	400 kV	ZERDA -BHINMAL	1	455	0	7.7	0.0	7.7
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	100	350	0.1	3.3	-3.2
15	220 kV	BHANPURA-RANPUR	1	41	42	0.2	0.2	-0.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.0	0.7
17	220 kV	MEHGAON-AURAIYA	1	117	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	84	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	77.7	173.8	-96.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	314	0	7.5	0.0	7.5
2	HVDC	RAIGARH-PUGALUR	2	0	1000	0.0	21.7	-21.7
3	765 kV	SOLAPUR-RAICHUR	2	1164	663	0.0	5.5	-5.5
4	765 kV	WARDHA-NIZAMABAD	2	0	1737	0.0	23.4	-23.4
5	400 kV	KOLHAPUR-KUDGI	2	1047	0	19.8	0.0	19.8
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	73	1.0	0.0	1.0
					WR-SR	28.3	50.6	-22.3

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)	788	0	707	17.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	722	0	220	5.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	253	182	186	4.5
	NER	132kV GELEPHU-SALAKATI	25	20	20	0.5
	NER	132kV MOTANGA-RANGIA	57	32	40	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-7	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	70	-50	30	0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-730	-726	-727	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-112	-2.7