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:23rd 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 22.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22st 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:** **23-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)	53527	49204	42418	21664	2998	169811
Peak Shortage (MW)	200	0	0	145	0	345
Energy Met (MU)	1160	1120	998	461	56	3795
Hydro Gen (MU)	316	44	143	132	25	660
Wind Gen (MU)	4	87	101	-	-	192
Solar Gen (MU)*	41.51	32.51	82.89	4.49	0.27	162
Energy Shortage (MU)	6.11	0.00	0.83	1.67	0.00	8.61
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54322	50164	46894	21977	3054	171407
Time Of Maximum Demand Met (From NLDC SCADA)	19:23	19:16	09:25	20:20	18:57	19:21

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	0.023	0.00	0.23	1.39	1.62	78.78	19.60

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	9111	0	206.7	153.9	-2.9	92	0.00
	Haryana	7395	0	156.7	115.1	-2.1	347	0.00
	Rajasthan	8564	0	193.0	56.5	-2.8	385	0.00
	Delhi	4603	0	100.3	90.6	-1.5	117	0.00
	UP	19301	0	380.6	149.7	-1.3	487	2.66
	Uttarakhand	1919	0	41.8	11.7	0.6	144	0.00
	HP	1547	0	32.0	-0.7	-0.4	123	0.00
	J&K(UT) & Ladakh(UT)	2386	200	44.3	19.7	1.0	226	3.45
	Chandigarh	257	0	5.2	5.6	-0.4	7	0.00
WR	Chhattisgarh	3877	0	89.4	42.6	0.2	333	0.00
	Gujarat	14164	0	314.9	155.7	0.9	554	0.00
	MP	10027	0	215.7	127.9	0.0	589	0.00
	Maharashtra	20720	0	443.0	180.0	-1.7	1413	0.00
	Goa	607	0	12.6	11.6	0.4	61	0.00
	DD	350	0	7.8	7.1	0.7	122	0.00
	DNH	828	0	18.5	18.9	-0.4	141	0.00
	AMNSIL	803	0	18.2	5.0	-0.6	189	0.00
SR	Andhra Pradesh	9331	0	197.2	73.6	1.1	1283	0.50
	Telangana	8949	0	182.9	35.0	-0.5	787	0.00
	Karnataka	10782	0	205.0	40.3	-1.5	579	0.00
	Kerala	3767	0	77.8	50.2	0.2	241	0.33
	Tamil Nadu	15032	0	326.3	163.7	-0.5	559	0.00
	Puducherry	419	0	8.8	8.9	-0.1	33	0.00
ER	Bihar	5933	0	112.8	106.5	0.1	366	1.23
	DVC	3119	0	67.6	-37.1	-0.2	231	0.00
	Jharkhand	1453	0	26.5	21.8	-3.5	175	0.44
	Odisha	5285	0	103.9	31.1	-0.2	419	0.00
	West Bengal	7576	0	148.3	34.6	0.6	401	0.00
	Sikkim	92	0	1.4	1.4	0.0	25	0.00
NER	Arunachal Pradesh	128	0	2.3	2.4	-0.3	60	0.00
	Assam	1995	0	36.4	28.9	0.4	98	0.00
	Manipur	197	0	2.6	2.5	0.1	25	0.00
	Meghalaya	328	0	5.6	2.1	0.0	45	0.00
	Mizoram	101	0	1.6	1.0	0.0	25	0.00
	Nagaland	133	0	2.5	2.0	0.0	39	0.00
	Tripura	293	0	5.1	5.0	-0.1	91	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	41.1	1.3	-20.3
Day Peak (MW)	1809.0	208.4	-871.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	191.8	-77.3	17.2	-132.7	0.9	0.0
Actual(MU)	174.4	-62.5	20.5	-135.3	-0.6	-3.5
O/D/U/D(MU)	-17.4	14.7	3.3	-2.6	-1.5	-3.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4589	20445	6852	2375	580	34840	47
State Sector	8810	20262	6735	3545	11	39363	53
Total	13399	40706	13587	5920	591	74202	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	544	972	522	483	10	2531	65
Lignite	21	7	35	0	0	64	2
Hydro	316	44	143	132	25	660	17
Nuclear	31	28	54	0	0	113	3
Gas, Naptha & Diesel	33	27	20	0	27	108	3
RES (Wind, Solar, Biomass & Others)	62	120	216	5	0	402	10
Total	1007	1199	990	619	62	3877	100

Share of RES in total generation (%)	6.15	10.01	21.78	0.73	0.43	10.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.59	16.06	41.68	22.04	39.93	30.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.058

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: 23-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	1456	0.0	34.4	-34.4
2	HVDC	PUSAULI B/B	-	0	245	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	461	67	4.3	0.0	4.3
4	765 kV	SASARAM-FATEHPUR	1	191	7	2.3	0.0	2.3
5	765 kV	GAYA-BALIA	1	0	506	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	0	205	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	106	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	490	0.0	7.4	-7.4
9	400 kV	PATNA-BALIA	4	0	691	0.0	13.3	-13.3
10	400 kV	BIHARSHARIFF-BALIA	2	17	184	0.0	2.6	-2.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	284	0.0	4.9	-4.9
12	400 kV	BIHARSHARIFF-VARANASI	2	194	24	1.4	0.0	1.4
13	220 kV	PUSAULI-SAHUPURI	1	39	82	0.0	0.5	-0.5
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	8.4	83.4	-75.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1118	0.0	13.2	-13.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1133	45	13.4	0.0	13.4
3	765 kV	JHARSUGUDA-DURG	2	0	369	0.0	4.5	-4.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	498	0.0	7.0	-7.0
5	400 kV	RANCHI-SIPAT	2	247	78	2.3	0.0	2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	112	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	88	8	0.9	0.0	0.9
					ER-WR	16.6	26.3	-9.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	448	0.0	9.0	-9.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	996	0.0	24.1	-24.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2141	0.0	39.0	-39.0
4	400 kV	TALCHER-I/C	2	388	0	7.3	0.0	7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	72.1	-72.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	495	0.0	7.8	-7.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	38	462	0.0	4.8	-4.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	134	0.0	2.0	-2.0
					ER-NER	0.0	14.6	-14.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	965	0.0	22.9	-22.9
2	HVDC	VINDHYACHAL B/B	-	452	543	5.1	4.4	0.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	447	0.0	11.0	-11.0
4	765 kV	GWALIOR-AGRA	2	149	1370	0.0	15.9	-15.9
5	765 kV	GWALIOR-PHAGI	2	0	1280	0.0	22.5	-22.5
6	765 kV	JABALPUR-ORAI	2	0	754	0.0	18.5	-18.5
7	765 kV	GWALIOR-ORAI	1	621	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	812	0.0	15.4	-15.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1180	0	16.3	0.0	16.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3073	0.0	53.4	-53.4
11	400 kV	ZERDA-KANKROLI	1	296	0	4.7	0.0	4.7
12	400 kV	ZERDA -BHINMAL	1	448	380	7.5	0.0	7.5
13	400 kV	VINDHYACHAL -RIHAND	1	951	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	296	203	1.1	0.0	1.1
15	220 kV	BHANPURA-RANPUR	1	61	21	0.6	0.1	0.5
16	220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17	220 kV	MEHGAON-AURAIYA	1	141	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	103	0	2.1	0.0	2.1
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	73.9	164.0	-90.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	398	0	9.7	0.0	9.7
2	HVDC	RAIGARH-PUGALUR	2	0	503	0.0	12.1	-12.1
3	765 kV	SOLAPUR-RAICHUR	2	1692	735	10.6	0.0	10.6
4	765 kV	WARDHA-NIZAMABAD	2	369	1302	0.0	14.9	-14.9
5	400 kV	KOLHAPUR-KUDGI	2	1289	0	23.4	0.0	23.4
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	98	1.6	0.0	1.6
					WR-SR	45.3	27.0	18.3

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)	617	0	550	13.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	842	833	842	20.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	268	229	238	5.7
	NER	132kV GELEPHU-SALAKATI	29	18	24	0.6
	NER	132kV MOTANGA-RANGIA	53	30	41	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-23	0	4	0.1
	ER	NEPAL IMPORT (FROM BIHAR)	135	-9	19	0.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	96	-4	38	0.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-736	-722	-728	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-119	-2.9