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:24th 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 23.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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:** **24-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)	49887	49600	42629	22216	3169	167501
Peak Shortage (MW)	200	0	83	209	0	492
Energy Met (MU)	1074	1128	996	471	60	3729
Hydro Gen (MU)	300	52	144	128	24	648
Wind Gen (MU)	4	53	102	-	-	159
Solar Gen (MU)*	41.95	26.76	85.47	4.59	0.30	159
Energy Shortage (MU)	5.85	0.10	0.58	2.62	0.00	9.15
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51050	50644	47249	22863	5404	170030
Time Of Maximum Demand Met (From NLDC SCADA)	19:19	19:23	10:33	20:29	16:40	19:23

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	0.029	0.00	0.00	2.09	2.09	69.03	28.87

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	7965	0	161.6	133.3	-15.5	174	0.00
	Haryana	6408	0	140.9	98.3	1.0	359	0.00
	Rajasthan	8698	0	187.6	51.0	-0.9	420	0.00
	Delhi	4811	0	98.9	88.5	-0.9	169	0.02
	UP	18451	0	367.0	145.4	-2.9	341	2.30
	Uttarakhand	1861	0	40.9	11.3	0.9	183	0.00
	HP	1437	0	29.5	-2.9	-1.3	64	0.08
	J&K(UT) & Ladakh(UT)	2364	200	43.0	20.9	0.6	313	3.45
	Chandigarh	233	0	4.4	4.8	-0.5	33	0.00
WR	Chhattisgarh	3822	0	89.7	43.8	1.0	280	0.00
	Gujarat	14213	0	319.5	179.3	2.3	733	0.10
	MP	10136	0	219.3	137.2	-0.6	364	0.00
	Maharashtra	20556	0	442.5	171.2	-0.7	1562	0.00
	Goa	602	0	12.3	11.8	0.1	63	0.00
	DD	345	0	7.6	7.0	0.6	108	0.00
	DNH	850	0	19.8	19.3	0.5	63	0.00
	AMNSIL	794	0	17.7	5.0	-0.8	226	0.00
SR	Andhra Pradesh	9520	0	197.7	77.7	-0.3	659	0.00
	Telangana	9245	0	185.7	32.1	-0.5	789	0.00
	Karnataka	10643	0	204.0	33.6	-0.8	764	0.00
	Kerala	3774	120	77.5	49.3	0.1	282	0.58
	Tamil Nadu	14941	0	321.9	159.9	-2.4	492	0.00
	Puducherry	421	0	8.7	9.0	-0.3	32	0.00
ER	Bihar	6085	0	107.3	101.2	1.7	596	1.92
	DVC	3165	0	67.3	-36.3	-0.4	247	0.00
	Jharkhand	1467	0	26.2	21.2	-3.1	201	0.70
	Odisha	5117	0	108.3	32.1	-0.1	470	0.00
	West Bengal	8078	0	160.7	41.2	2.4	790	0.00
	Sikkim	92	0	1.5	1.4	0.1	38	0.00
NER	Arunachal Pradesh	152	0	2.5	2.5	-0.2	22	0.00
	Assam	2102	0	39.5	30.8	0.7	99	0.00
	Manipur	204	0	2.7	2.6	0.1	41	0.00
	Meghalaya	316	0	5.8	2.4	0.1	41	0.00
	Mizoram	96	0	1.6	1.0	0.0	18	0.00
	Nagaland	138	0	2.5	2.0	0.0	30	0.00
	Tripura	307	0	5.4	5.0	0.1	94	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.0	1.2	-20.5
Day Peak (MW)	1745.0	166.5	-883.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	153.6	-38.8	2.8	-120.4	2.7	0.0
Actual(MU)	125.2	-13.2	4.9	-123.6	2.2	-4.4
O/D/U/D(MU)	-28.4	25.6	2.1	-3.2	-0.5	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4118	19785	7352	2875	559	34688	46
State Sector	9480	20282	6735	3755	11	40263	54
Total	13598	40066	14087	6630	570	74951	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	527	978	536	484	10	2534	66
Lignite	22	7	34	0	0	63	2
Hydro	300	52	145	128	24	648	17
Nuclear	31	28	56	0	0	115	3
Gas, Naptha & Diesel	28	16	17	0	29	91	2
RES (Wind, Solar, Biomass & Others)	63	80	219	5	0	366	10
Total	970	1162	1007	616	63	3818	100

Share of RES in total generation (%)	6.45	6.89	21.73	0.75	0.47	9.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.51	13.78	41.69	21.51	38.79	29.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.055

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: 24-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	1651	0.0	37.7	-37.7
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	409	148	3.8	0.0	3.8
4	765 kV	SASARAM-FATEHPUR	1	237	55	1.7	0.0	1.7
5	765 kV	GAYA-BALIA	1	0	404	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	0	216	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	116	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	50	448	0.0	5.4	-5.4
9	400 kV	PATNA-BALIA	4	0	646	0.0	7.4	-7.4
10	400 kV	BIHARSHARIFF-BALIA	2	257	119	1.6	0.0	1.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	280	0.0	4.3	-4.3
12	400 kV	BIHARSHARIFF-VARANASI	2	181	65	1.4	0.0	1.4
13	220 kV	PUSAULI-SAHUPURI	1	48	44	0.0	0.2	-0.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
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	8.7	72.0	-63.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	67	880	0.0	9.0	-9.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	946	447	10.8	0.0	10.8
3	765 kV	JHARSUGUDA-DURG	2	0	515	0.0	5.5	-5.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	488	0.0	6.6	-6.6
5	400 kV	RANCHI-SIPAT	2	176	189	0.8	0.0	0.8
6	220 kV	BUDHIPADAR-RAIGARH	1	81	116	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	118	14	1.3	0.0	1.3
					ER-WR	12.9	22.8	-9.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	451	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	995	0.0	24.1	-24.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2176	0.0	34.5	-34.5
4	400 kV	TALCHER-I/C	2	426	0	7.6	0.0	7.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	47	0.0	0.0	0.0
					ER-SR	0.0	68.6	-68.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	480	0.0	9.5	-9.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	477	0.0	6.0	-6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	142	0.0	2.3	-2.3
					ER-NER	0.0	17.8	-17.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	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	965	0.0	23.1	-23.1
2	HVDC	VINDHYACHAL B/B	-	448	494	3.3	4.9	-1.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	447	0.0	11.0	-11.0
4	765 kV	GWALIOR-AGRA	2	509	995	0.0	9.1	-9.1
5	765 kV	GWALIOR-PHAGI	2	0	1379	0.0	25.3	-25.3
6	765 kV	JABALPUR-ORAI	2	0	504	0.0	13.4	-13.4
7	765 kV	GWALIOR-ORAI	1	730	0	14.8	0.0	14.8
8	765 kV	SATNA-ORAI	1	0	671	0.0	13.8	-13.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1670	0	28.2	0.0	28.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2818	0.0	45.7	-45.7
11	400 kV	ZERDA-KANKROLI	1	364	0	6.7	0.0	6.7
12	400 kV	ZERDA -BHINMAL	1	649	0	10.6	0.0	10.6
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	249	121	1.5	0.0	1.5
15	220 kV	BHANPURA-RANPUR	1	62	5	0.6	0.0	0.6
16	220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17	220 kV	MEHGAON-AURAIYA	1	146	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	105	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	92.0	146.2	-54.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	703	569	5.3	1.0	4.3
2	HVDC	RAIGARH-PUGALUR	2	0	501	0.0	12.1	-12.1
3	765 kV	SOLAPUR-RAICHUR	2	1575	434	18.1	0.0	18.1
4	765 kV	WARDHA-NIZAMABAD	2	490	1361	0.0	6.8	-6.8
5	400 kV	KOLHAPUR-KUDGI	2	1367	0	26.0	0.0	26.0
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	78	1.5	0.0	1.5
					WR-SR	50.9	19.9	31.0

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)	588	0	543	13.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	807	0	780	18.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	265	0	233	5.6
	NER	132kV GELEPHU-SALAKATI	28	18	24	0.6
	NER	132kV MOTANGA-RANGIA	58	29	47	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-52	0	-5	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	125	0	22	0.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	94	-31	31	0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-724	-725	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-130	-3.1