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 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 21.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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: 22-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)	57566	49160	43174	22191	2957	175048
Peak Shortage (MW)	200	0	0	180	0	380
Energy Met (MU)	1283	1125	1003	464	55	3931
Hydro Gen (MU)	327	43	139	126	24	658
Wind Gen (MU)	6	104	102	-	-	212
Solar Gen (MU)*	37.25	29.16	87.30	4.55	0.24	159
Energy Shortage (MU)	4.52	0.00	0.00	2.55	0.00	7.07
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58637	50961	46898	22400	2983	175839
Time Of Maximum Demand Met (From NLDC SCADA)	00:08	10:54	12:23	19:47	18:34	19:06

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	0.033	0.00	0.00	0.05	0.05	59.34	40.61

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	10929	0	228.4	158.0	-2.2	150	0.00
	Haryana	8518	0	189.0	131.7	1.0	263	0.00
	Rajasthan	9851	0	219.7	82.8	-0.6	769	0.00
	Delhi	5209	0	108.4	98.4	-1.3	133	0.00
	UP	20812	0	413.5	153.1	0.5	581	1.07
	Uttarakhand	2074	0	44.5	14.6	1.0	150	0.00
	HP	1390	0	30.4	-3.6	-0.7	74	0.00
	J&K(UT) & Ladakh(UT)	2380	200	43.6	19.7	-0.9	469	3.45
	Chandigarh	246	0	5.3	6.1	-0.8	13	0.00
WR	Chhattisgarh	3860	0	88.3	43.0	1.9	312	0.00
	Gujarat	14300	0	314.3	154.5	0.0	874	0.00
	MP	9785	0	212.0	130.5	-0.5	562	0.00
	Maharashtra	21366	0	452.3	172.6	-1.7	1366	0.00
	Goa	598	0	12.8	11.7	0.4	70	0.00
	DD	348	0	7.7	7.1	0.6	92	0.00
	DNH	858	0	19.9	19.6	0.3	45	0.00
	AMNSIL	788	0	18.0	5.2	-0.9	184	0.00
SR	Andhra Pradesh	9944	0	205.8	88.7	1.2	544	0.00
	Telangana	9181	0	190.4	36.0	-2.6	343	0.00
	Karnataka	10923	0	205.7	50.2	0.1	710	0.00
	Kerala	3806	0	77.7	49.5	1.2	251	0.00
	Tamil Nadu	15084	0	314.9	157.6	-2.4	801	0.00
	Puducherry	430	0	8.7	8.9	-0.2	32	0.00
ER	Bihar	6165	0	118.6	112.1	0.1	320	1.41
	DVC	3134	0	67.9	-39.6	0.2	319	0.00
	Jharkhand	1598	0	27.9	22.7	-2.7	191	1.14
	Odisha	5121	0	101.1	33.7	0.7	489	0.00
	West Bengal	7591	0	147.4	31.0	0.7	560	0.00
	Sikkim	89	0	1.5	1.5	0.0	15	0.00
NER	Arunachal Pradesh	137	0	2.4	2.2	0.1	27	0.00
	Assam	1958	0	35.8	30.1	0.1	129	0.00
	Manipur	194	0	2.6	2.6	-0.0	30	0.00
	Meghalaya	294	0	5.3	1.9	0.1	82	0.00
	Mizoram	101	0	1.6	1.1	-0.0	21	0.00
	Nagaland	137	0	2.6	2.1	-0.1	20	0.00
	Tripura	276	0	4.8	4.6	-0.5	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	40.5	2.1	-20.4
Day Peak (MW)	1875.0	106.0	-881.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.6	-112.9	29.4	-136.7	-3.4	0.0
Actual(MU)	211.7	-100.5	20.5	-128.3	-2.5	0.9
O/D/U/D(MU)	-11.9	12.4	-8.9	8.4	1.0	0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3996	18802	6602	2375	580	32354	45
State Sector	8345	20592	6315	3755	11	39018	55
Total	12341	39393	12917	6130	591	71372	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	605	998	536	492	12	2644	66
Lignite	21	10	38	0	0	68	2
Hydro	327	43	139	126	24	658	16
Nuclear	31	28	55	0	0	114	3
Gas, Naptha & Diesel	43	34	11	0	27	114	3
RES (Wind, Solar, Biomass & Others)	60	134	218	5	0	416	10
Total	1087	1247	997	622	63	4015	100

Share of RES in total generation (%)	5.53	10.71	21.87	0.73	0.38	10.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.45	16.44	41.37	20.93	37.77	29.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.078

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-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	245	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	289	79	2.0	0.0	2.0
4	765 kV	SASARAM-FATEHPUR	1	175	29	1.5	0.0	1.5
5	765 kV	GAYA-BALIA	1	0	559	0.0	9.0	-9.0
6	400 kV	PUSAULI-VARANASI	1	0	206	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	102	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	528	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	4	0	856	0.0	13.1	-13.1
10	400 kV	BIHARSHARIFF-BALIA	2	28	161	0.0	1.9	-1.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	351	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	144	35	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	1	32	66	0.0	0.3	-0.3
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	4.6	84.7	-80.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	80	963	0.0	11.8	-11.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1059	64	14.4	0.0	14.4
3	765 kV	JHARSUGUDA-DURG	2	0	296	0.0	2.9	-2.9
4	400 kV	JHARSUGUDA-RAIGARH	4	5	338	0.0	3.9	-3.9
5	400 kV	RANCHI-SIPAT	2	244	65	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	94	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	81	23	0.7	0.0	0.7
					ER-WR	18.4	19.9	-1.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	362	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1636	0.0	29.5	-29.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2518	0.0	39.2	-39.2
4	400 kV	TALCHER-I/C	2	381	496	2.5	0.0	2.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	77.2	-77.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	471	0.0	0.0	0.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	45	441	0.0	3.9	-3.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	133	0.0	1.9	-1.9
					ER-NER	0.0	5.8	-5.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	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	979	0.0	22.7	-22.7
2	HVDC	VINDHYACHAL B/B	-	452	0	10.1	0.0	10.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	447	0.0	11.0	-11.0
4	765 kV	GWALIOR-AGRA	2	0	1590	0.0	23.9	-23.9
5	765 kV	GWALIOR-PHAGI	2	0	1635	0.0	30.2	-30.2
6	765 kV	JABALPUR-ORAI	2	0	848	0.0	26.7	-26.7
7	765 kV	GWALIOR-ORAI	1	676	0	12.6	0.0	12.6
8	765 kV	SATNA-ORAI	1	0	908	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITORGARH	2	946	141	9.5	0.0	9.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2946	0.0	53.7	-53.7
11	400 kV	ZERDA-KANKROLI	1	217	0	3.0	0.0	3.0
12	400 kV	ZERDA -BHINMAL	1	381	208	3.6	0.0	3.6
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	21.3	0.0	21.3
14	400 kV	RAPP-SHUJALPUR	2	83	374	0.0	2.7	-2.7
15	220 kV	BHANPURA-RANPUR	1	46	44	0.3	0.2	0.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.9	0.1	0.9
17	220 kV	MEHGAON-AURAIYA	1	162	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	122	0	2.5	0.0	2.5
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	65.5	189.7	-124.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	797	0	12.9	0.0	12.9
2	HVDC	RAIGARH-PUGALUR	2	0	1001	0.0	13.4	-13.4
3	765 kV	SOLAPUR-RAICHUR	2	1433	877	14.8	1.4	13.5
4	765 kV	WARDHA-NIZAMABAD	2	204	1930	0.1	15.2	-15.0
5	400 kV	KOLHAPUR-KUDGI	2	1229	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	80	1.5	0.0	1.5
					WR-SR	52.8	29.9	22.9

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)	622	0	582	14.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	863	0	813	19.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	308	0	224	5.4
	NER	132kV GELEPHU-SALAKATI	27	20	23	0.6
	NER	132kV MOTANGA-RANGIA	55	31	46	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-30	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	140	-10	49	1.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-4	100	40	1.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-736	-724	-727	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-145	0	-123	-3.0