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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक:10th 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 09.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 9th 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:** **10-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)	60442	47543	41914	22731	3097	175727
Peak Shortage (MW)	805	0	0	124	2	931
Energy Met (MU)	1376	1091	936	515	59	3977
Hydro Gen (MU)	320	26	118	146	33	643
Wind Gen (MU)	11	93	184	-	-	288
Solar Gen (MU)*	54.47	23.24	103.16	4.36	0.26	185
Energy Shortage (MU)	4.81	0.00	0.00	1.76	0.15	6.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61097	48137	43666	23372	3117	176463
Time Of Maximum Demand Met (From NLDC SCADA)	22:34	19:19	10:38	20:40	18:52	19:19

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	0.031	0.00	0.41	6.40	6.80	81.02	12.17

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	11415	0	254.1	151.7	-1.8	64	0.00
	Haryana	8715	0	191.2	137.8	0.7	243	0.00
	Rajasthan	11876	0	259.4	116.5	2.9	549	0.00
	Delhi	5101	0	109.5	99.5	-1.6	184	0.00
	UP	21756	0	433.3	179.7	-2.5	326	0.94
	Uttarakhand	1981	0	44.6	14.2	0.9	150	0.42
	HP	1452	0	31.4	-3.4	-0.4	136	0.00
	J&K(UT) & Ladakh(UT)	2423	200	46.0	20.8	-0.3	524	3.45
	Chandigarh	306	0	6.2	6.4	-0.2	31	0.00
WR	Chhattisgarh	4243	0	101.7	49.3	-0.2	206	0.00
	Gujarat	13593	0	305.6	190.2	3.1	1254	0.00
	MP	9601	0	215.1	137.9	-1.4	542	0.00
	Maharashtra	18918	0	410.4	132.9	-5.9	537	0.00
	Goa	522	0	11.4	10.5	0.2	68	0.00
	DD	336	0	7.6	7.2	0.4	41	0.00
	DNH	849	0	19.8	19.7	0.1	98	0.00
	AMNSIL	873	0	19.3	4.3	-0.5	201	0.00
SR	Andhra Pradesh	8580	0	186.6	62.1	0.1	501	0.00
	Telangana	8405	0	168.2	33.3	-1.5	499	0.00
	Karnataka	9341	0	177.5	23.0	-0.9	544	0.00
	Kerala	3616	0	73.1	47.1	-0.1	197	0.00
	Tamil Nadu	15062	0	322.0	143.7	-1.2	637	0.00
	Puducherry	418	0	8.8	8.9	0.0	38	0.00
ER	Bihar	6288	0	124.7	116.6	1.7	297	1.28
	DVC	3082	0	68.3	-45.8	-0.3	406	0.00
	Jharkhand	1478	0	30.7	27.7	-0.7	216	0.49
	Odisha	5550	0	116.6	38.5	-0.5	467	0.00
	West Bengal	8592	0	173.2	51.0	-0.9	515	0.00
	Sikkim	94	0	1.5	0.2	1.3	89	0.00
NER	Arunachal Pradesh	139	0	2.3	2.3	-0.2	23	0.00
	Assam	2081	0	39.2	32.5	0.6	153	0.03
	Manipur	202	13	2.6	2.7	-0.1	33	0.02
	Meghalaya	318	0	5.7	1.0	0.0	35	0.10
	Mizoram	101	0	1.5	1.2	-0.1	27	0.00
	Nagaland	126	0	2.4	2.2	-0.3	13	0.00
	Tripura	298	1	4.9	5.5	-0.4	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.5	0.6	-19.7
Day Peak (MW)	2286.0	21.7	-876.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	322.6	-120.3	-41.0	-153.6	-7.9	0.0
Actual(MU)	311.4	-117.6	-42.4	-149.9	-10.0	-8.4
O/D/U/D(MU)	-11.2	2.7	-1.4	3.7	-2.1	-8.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6029	17710	8222	1915	409	34284	42
State Sector	9780	21456	11018	4275	11	46540	58
Total	15809	39165	19240	6190	420	80823	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	597	1017	432	543	14	2603	64
Lignite	25	10	48	0	0	84	2
Hydro	320	26	118	146	33	643	16
Nuclear	26	28	65	0	0	120	3
Gas, Naptha & Diesel	29	28	10	0	27	94	2
RES (Wind, Solar, Biomass & Others)	82	116	320	4	0	523	13
Total	1079	1226	994	694	74	4067	100

Share of RES in total generation (%)	7.63	9.50	32.21	0.62	0.35	12.87
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.68	13.88	50.68	21.69	45.20	31.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.064

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: 10-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	1201	0.0	29.6	-29.6
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.7	-5.7
3	765 kV	GAYA-VARANASI	2	44	379	0.0	3.6	-3.6
4	765 kV	SASARAM-FATEHPUR	1	27	201	0.0	1.9	-1.9
5	765 kV	GAYA-BALIA	1	0	626	0.0	11.1	-11.1
6	400 kV	PUSAULI-VARANASI	1	0	155	0.0	3.1	-3.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	138	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	742	0.0	13.6	-13.6
9	400 kV	PATNA-BALIA	4	0	1033	0.0	20.5	-20.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	368	0.0	5.5	-5.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	451	0.0	7.8	-7.8
12	400 kV	BIHARSHARIFF-VARANASI	2	1	187	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	1	0	114	0.0	1.4	-1.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
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	0.5	107.6	-107.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1179	0.0	16.0	-16.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	931	85	13.8	0.0	13.8
3	765 kV	JHARSUGUDA-DURG	2	37	198	0.0	2.0	-2.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	431	0.0	7.2	-7.2
5	400 kV	RANCHI-SIPAT	2	161	77	2.1	0.0	2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	192	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	44	60	0.0	0.5	-0.5
					ER-WR	15.9	29.1	-13.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	300	0	6.2	0.0	6.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	33.3	-33.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2633	0.0	42.6	-42.6
4	400 kV	TALCHER-I/C	2	696	196	10.6	0.0	10.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	6.2	75.9	-69.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	60	315	0.0	3.7	-3.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	193	377	0.0	2.3	-2.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	115	0.0	1.8	-1.8
					ER-NER	0.0	7.8	-7.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	803	0.0	19.4	-19.4
					NER-NR	0.0	19.4	-19.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3020	0.0	47.1	-47.1
2	HVDC	VINDHYACHAL B/B	-	0	52	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	441	0.0	7.5	-7.5
4	765 kV	GWALIOR-AGRA	2	0	1912	0.0	32.3	-32.3
5	765 kV	GWALIOR-PHAGI	2	0	2118	0.0	42.5	-42.5
6	765 kV	JABALPUR-ORAI	2	0	1045	0.0	37.6	-37.6
7	765 kV	GWALIOR-ORAI	1	814	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	1003	0.0	21.4	-21.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1039	0	15.6	0.0	15.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3091	0.0	59.0	-59.0
11	400 kV	ZERDA-KANKROLI	1	222	0	3.6	0.0	3.6
12	400 kV	ZERDA -BHINMAL	1	328	275	4.2	0.0	4.2
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	0	523	0.0	7.4	-7.4
15	220 kV	BHANPURA-RANPUR	1	0	116	0.0	1.9	-1.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	128	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	89	0	1.7	0.0	1.7
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	63.2	259.4	-196.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	14.3	0.0	14.3
2	HVDC	RAIGARH-PUGALUR	2	1462	0	30.8	0.0	30.8
3	765 kV	SOLAPUR-RAICHUR	2	1772	1335	8.9	0.0	8.9
4	765 kV	WARDHA-NIZAMABAD	2	455	1758	0.9	12.9	-12.0
5	400 kV	KOLHAPUR-KUDGI	2	1382	0	22.1	0.0	22.1
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	69	1.3	0.0	1.3
					WR-SR	78.2	12.9	65.3

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)	835	819	820	19.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1038	0	1026	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	320	0	270	6.5
	NER	132kV GELEPHU-SALAKATI	34	0	27	0.6
	NER	132kV MOTANGA-RANGIA	59	26	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-36	0	2	0.1
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	68	12	30	0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-730	-488	-695	-16.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-127	-3.0