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:8th 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 07.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 7th 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:** **08-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)	60730	48913	39578	22329	2975	174525
Peak Shortage (MW)	729	0	0	135	2	866
Energy Met (MU)	1379	1131	841	480	55	3886
Hydro Gen (MU)	309	29	99	142	32	611
Wind Gen (MU)	6	59	217	-	-	282
Solar Gen (MU)*	58.32	29.27	74.13	4.26	0.18	166
Energy Shortage (MU)	4.09	4.50	0.00	1.16	0.00	9.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61774	49668	40770	22968	3035	174884
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:31	19:09	00:00	18:34	19:16

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	0.03	6.35	6.39	81.34	12.27

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	11410	0	255.7	152.4	-1.2	33	0.00
	Haryana	8570	0	188.4	149.5	-0.3	134	0.00
	Rajasthan	11754	0	261.0	120.4	3.7	520	0.27
	Delhi	5481	0	114.1	103.8	-1.5	101	0.00
	UP	21721	0	430.5	188.9	-2.3	505	0.00
	Uttarakhand	2002	0	43.8	15.3	1.8	181	0.37
	HP	1555	0	33.2	1.2	-0.5	17	0.00
	J&K(UT) & Ladakh(UT)	2471	200	45.9	23.0	-0.7	340	3.45
	Chandigarh	325	0	6.5	6.5	0.1	42	0.00
WR	Chhattisgarh	4041	0	93.3	47.6	-2.0	428	0.00
	Gujarat	15312	102	333.7	201.1	0.8	674	4.50
	MP	10252	0	226.1	143.9	0.4	634	0.00
	Maharashtra	19659	0	421.8	152.5	-6.0	675	0.00
	Goa	534	0	11.7	10.8	0.3	31	0.00
	DD	342	0	7.6	7.1	0.5	73	0.00
	DNH	858	0	19.7	19.6	0.1	49	0.00
	AMNSIL	757	0	17.0	4.4	-4.4	172	0.00
SR	Andhra Pradesh	7914	0	168.6	40.1	-0.2	534	0.00
	Telangana	6347	0	136.3	24.1	-2.2	305	0.00
	Karnataka	8496	0	160.3	4.1	-1.8	411	0.00
	Kerala	3542	0	69.9	45.2	-0.5	219	0.00
	Tamil Nadu	14249	0	297.2	130.1	1.3	1211	0.00
	Puducherry	414	0	8.5	8.6	-0.1	40	0.00
ER	Bihar	6258	0	111.6	105.7	-1.7	459	0.68
	DVC	3058	0	65.9	-43.5	-0.5	340	0.00
	Jharkhand	1404	0	27.7	23.7	-2.9	167	0.48
	Odisha	5498	0	113.5	34.9	-0.5	296	0.00
	West Bengal	8112	0	160.4	43.0	-2.5	344	0.00
	Sikkim	92	0	1.4	1.4	0.0	15	0.00
NER	Arunachal Pradesh	123	0	2.5	2.4	-0.2	17	0.00
	Assam	1962	0	34.1	27.9	-0.3	93	0.00
	Manipur	201	0	2.8	2.7	0.0	14	0.00
	Meghalaya	325	0	5.6	2.6	-0.2	19	0.00
	Mizoram	105	0	1.6	1.2	-0.1	16	0.00
	Nagaland	135	0	2.8	2.3	0.0	10	0.00
	Tripura	280	2	5.2	4.8	-0.3	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.0	0.0	-20.2
Day Peak (MW)	2262.0	51.1	-881.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	348.0	-85.1	-98.9	-154.6	-9.4	0.0
Actual(MU)	352.5	-82.0	-103.5	-159.1	-13.9	-5.9
O/D/U/D(MU)	4.5	3.1	-4.6	-4.5	-4.5	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5319	17818	7672	2575	409	33792	42
State Sector	10740	20799	11468	3385	11	46403	58
Total	16059	38616	19140	5960	420	80194	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	578	1035	417	523	14	2568	64
Lignite	25	10	43	0	0	78	2
Hydro	309	29	99	142	32	611	15
Nuclear	26	32	65	0	0	123	3
Gas, Naptha & Diesel	30	44	11	0	27	113	3
RES (Wind, Solar, Biomass & Others)	80	89	322	4	0	495	12
Total	1049	1238	957	669	74	3987	100

Share of RES in total generation (%)	7.65	7.15	33.64	0.63	0.24	12.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.60	12.06	50.75	21.80	43.77	30.81

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.154

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: 08-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	1401	0.0	34.0	-34.0
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	587	0.0	7.9	-7.9
4	765 kV	SASARAM-FATEHPUR	1	0	318	0.0	4.5	-4.5
5	765 kV	GAYA-BALIA	1	0	622	0.0	11.5	-11.5
6	400 kV	PUSAULI-VARANASI	1	0	147	0.0	2.9	-2.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	163	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	842	0.0	16.4	-16.4
9	400 kV	PATNA-BALIA	4	0	1086	0.0	21.0	-21.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	409	0.0	7.4	-7.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	466	0.0	8.8	-8.8
12	400 kV	BIHARSHARIFF-VARANASI	2	0	285	0.0	4.1	-4.1
13	220 kV	PUSAULI-SAHUPURI	1	0	98	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	0.4	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	0.4	129.0	-128.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1665	0.0	25.8	-25.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1024	0	14.2	0.0	14.2
3	765 kV	JHARSUGUDA-DURG	2	0	257	0.0	3.7	-3.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	536	0.0	8.3	-8.3
5	400 kV	RANCHI-SIPAT	2	213	65	2.5	0.0	2.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	180	0.0	3.3	-3.3
7	220 kV	BUDHIPADAR-KORBA	2	2	86	0.0	1.1	-1.1
					ER-WR	16.8	42.1	-25.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	294	0	7.3	0.0	7.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	987	0.0	17.7	-17.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2382	0.0	40.4	-40.4
4	400 kV	757	2	1195	0	25.5	0.0	25.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	7.3	58.1	-50.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	159	355	0.0	2.5	-2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	412	356	1.6	0.0	1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	33	131	0.0	1.0	-1.0
					ER-NER	1.6	3.5	-1.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	804	0.0	17.5	-17.5
					NER-NR	0.0	17.5	-17.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3534	0.0	52.0	-52.0
2	HVDC	VINDHYACHAL B/B	-	0	253	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	490	0.0	7.0	-7.0
4	765 kV	GWALIOR-AGRA	2	0	1992	0.0	34.4	-34.4
5	765 kV	GWALIOR-PHAGI	2	0	2361	0.0	47.5	-47.5
6	765 kV	JABALPUR-ORAI	2	0	1198	0.0	45.6	-45.6
7	765 kV	GWALIOR-ORAI	1	793	0	15.8	0.0	15.8
8	765 kV	SATNA-ORAI	1	0	979	0.0	21.7	-21.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1057	0	17.4	0.0	17.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3119	0.0	54.2	-54.2
11	400 kV	ZERDA-KANKROLI	1	246	0	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	350	40	4.2	0.0	4.2
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	0	617	0.0	9.9	-9.9
15	220 kV	BHANPURA-RANPUR	1	0	138	0.0	2.0	-2.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	122	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	85	1	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	65.5	281.9	-216.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	997	0	24.1	0.0	24.1
2	HVDC	RAIGARH-PUGALUR	2	2159	0	51.2	0.0	51.2
3	765 kV	SOLAPUR-RAICHUR	2	1578	694	14.7	0.0	14.7
4	765 kV	WARDHA-NIZAMABAD	2	625	1299	0.0	10.8	-10.8
5	400 kV	KOLHAPUR-KUDGI	2	1523	0	28.7	0.0	28.7
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	85	1.3	0.0	1.3
					WR-SR	120.0	10.8	109.2

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)	852	0	805	19.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1036	1022	1030	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	286	257	267	6.4
	NER	132kV GELEPHU-SALAKATI	40	18	29	0.7
	NER	132kV MOTANGA-RANGIA	49	0	38	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-52	0	-18	-0.4
	ER	NEPAL IMPORT (FROM BIHAR)	-25	0	-6	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	128	17	24	0.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-735	-728	-728	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-114	-2.7