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:29th 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 28.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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:** **29-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)	56715	48029	41821	21251	2991	170807
Peak Shortage (MW)	280	0	0	113	0	393
Energy Met (MU)	1219	1093	922	465	56	3755
Hydro Gen (MU)	273	43	147	116	22	602
Wind Gen (MU)	17	73	203	-	-	292
Solar Gen (MU)*	61.70	31.12	78.60	4.58	0.30	176
Energy Shortage (MU)	4.67	0.26	0.00	0.74	0.00	5.67
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57257	49231	42851	21251	3073	171534
Time Of Maximum Demand Met (From NLDC SCADA)	19:26	19:00	10:28	19:42	18:53	19:25

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	0.021	0.00	0.00	0.28	0.28	81.78	17.94

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	9316	0	209.5	131.3	-0.9	159	0.00
	Haryana	8045	0	173.7	131.9	0.6	291	0.25
	Rajasthan	9239	0	201.2	49.1	-2.1	286	0.13
	Delhi	5063	0	107.5	96.2	-0.5	134	0.00
	UP	20816	0	398.0	152.1	1.3	528	0.38
	Uttarakhand	1910	0	42.9	14.9	1.0	204	0.40
	HP	1461	0	31.9	2.3	-0.5	118	0.06
	J&K(UT) & Ladakh(UT)	2495	200	48.1	28.4	1.1	269	3.45
	Chandigarh	285	0	5.8	5.7	0.1	40	0.00
WR	Chhattisgarh	3894	0	90.9	45.7	0.3	197	0.00
	Gujarat	14181	0	310.5	186.9	-2.2	383	0.00
	MP	9779	0	211.6	112.5	-2.7	488	0.00
	Maharashtra	19793	0	422.4	139.8	-3.9	565	0.00
	Goa	612	0	13.0	11.4	0.9	42	0.26
	DD	343	0	7.7	7.1	0.6	74	0.00
	DNH	858	0	19.9	19.7	0.2	55	0.00
	AMNSIL	796	0	17.3	4.9	-0.9	169	0.00
SR	Andhra Pradesh	8620	0	182.1	47.6	1.1	792	0.00
	Telangana	7271	0	152.9	6.2	-0.4	500	0.00
	Karnataka	10378	0	193.4	24.7	-0.6	691	0.00
	Kerala	3484	0	69.1	41.4	0.1	198	0.00
	Tamil Nadu	15118	0	315.7	129.7	-1.2	1059	0.00
	Puducherry	397	0	8.3	8.6	-0.3	33	0.00
ER	Bihar	5786	35	113.5	109.7	-1.3	307	0.58
	DVC	3067	0	65.8	-39.5	-1.2	535	0.00
	Jharkhand	1572	75	28.5	23.4	-2.1	143	0.16
	Odisha	5028	0	108.0	37.2	-1.4	369	0.00
	West Bengal	7388	0	148.0	37.3	0.4	514	0.00
	Sikkim	100	0	1.5	1.3	0.2	36	0.00
NER	Arunachal Pradesh	149	0	2.3	2.3	-0.2	61	0.00
	Assam	1991	0	37.1	29.7	0.1	138	0.00
	Manipur	202	0	2.6	2.6	-0.1	31	0.00
	Meghalaya	305	0	5.2	2.6	0.0	37	0.00
	Mizoram	103	0	1.5	1.0	0.0	25	0.00
	Nagaland	143	0	2.4	2.0	-0.2	19	0.00
	Tripura	291	0	4.9	4.8	-0.5	62	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.4	0.4	-19.8
Day Peak (MW)	1882.0	-217.3	-859.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.4	-53.1	-84.4	-110.2	1.3	0.0
Actual(MU)	235.9	-53.9	-85.7	-98.9	-1.0	-3.5
O/D/U/D(MU)	-10.6	-0.7	-1.2	11.3	-2.3	-3.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4573	19386	7802	2975	559	35294	44
State Sector	9715	20430	9948	3965	11	44069	56
Total	14288	39815	17750	6940	570	79363	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	562	952	451	469	10	2444	63
Lignite	24	12	36	0	0	72	2
Hydro	273	43	147	116	22	602	16
Nuclear	31	33	60	0	0	123	3
Gas, Naptha & Diesel	22	25	11	0	30	88	2
RES (Wind, Solar, Biomass & Others)	94	104	317	5	0	520	14
Total	1006	1169	1022	589	62	3849	100

Share of RES in total generation (%)	9.36	8.92	31.01	0.77	0.48	13.51
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.55	15.43	51.24	20.46	36.67	32.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.051

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: 29-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	1101	0.0	27.4	-27.4
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	354	254	1.5	0.0	1.5
4	765 kV	SASARAM-FATEHPUR	1	139	103	0.8	0.0	0.8
5	765 kV	GAYA-BALIA	1	0	632	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	0	182	0.0	3.7	-3.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	123	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	539	0.0	8.2	-8.2
9	400 kV	PATNA-BALIA	4	0	776	0.0	11.7	-11.7
10	400 kV	BIHARSHARIFF-BALIA	2	64	220	0.0	2.0	-2.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	276	0.0	4.5	-4.5
12	400 kV	BIHARSHARIFF-VARANASI	2	181	81	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	1	39	64	0.1	0.0	0.1
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	3.4	74.3	-70.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1237	0.0	17.8	-17.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1130	276	14.8	0.0	14.8
3	765 kV	JHARSUGUDA-DURG	2	74	244	0.0	0.8	-0.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	540	0.0	5.8	-5.8
5	400 kV	RANCHI-SIPAT	2	236	141	3.4	0.0	3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	101	16	1.0	0.0	1.0
					ER-WR	19.2	27.0	-7.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	539	0	13.2	0.0	13.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	991	0.0	21.4	-21.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2124	0.0	34.1	-34.1
4	400 kV	TALCHER-I/C	2	892	0	11.2	0.0	11.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	13.2	55.6	-42.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	312	0.0	6.6	-6.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	455	0.0	6.3	-6.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	134	0.0	2.3	-2.3
					ER-NER	0.0	15.3	-15.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	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	2009	0.0	48.1	-48.1
2	HVDC	VINDHYACHAL B/B	-	227	253	1.3	2.9	-1.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	396	0.0	9.1	-9.1
4	765 kV	GWALIOR-AGRA	2	0	1696	0.0	29.4	-29.4
5	765 kV	GWALIOR-PHAGI	2	0	1561	0.0	29.3	-29.3
6	765 kV	JABALPUR-ORAI	2	0	829	0.0	31.3	-31.3
7	765 kV	GWALIOR-ORAI	1	679	0	12.0	0.0	12.0
8	765 kV	SATNA-ORAI	1	0	947	0.0	20.4	-20.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1547	0	25.3	0.0	25.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3051	0.0	59.7	-59.7
11	400 kV	ZERDA-KANKROLI	1	382	0	6.4	0.0	6.4
12	400 kV	ZERDA -BHINMAL	1	656	0	10.5	0.0	10.5
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	45	364	0.1	4.3	-4.2
15	220 kV	BHANPURA-RANPUR	1	14	78	0.0	0.9	-0.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.3	-0.2
17	220 kV	MEHGAON-AURAIYA	1	129	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	93	0	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	80.9	235.8	-154.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	747	0	12.1	0.0	12.1
2	HVDC	RAIGARH-PUGALUR	2	2152	0	48.3	0.0	48.3
3	765 kV	SOLAPUR-RAICHUR	2	2001	774	14.1	0.0	14.1
4	765 kV	WARDHA-NIZAMABAD	2	900	1282	3.0	9.2	-6.3
5	400 kV	KOLHAPUR-KUDGI	2	1379	0	24.9	0.0	24.9
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	79	0.5	0.0	0.5
					WR-SR	102.8	9.3	93.6

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)	632	0	563	13.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	864	703	779	18.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	293	249	255	6.1
	NER	132kV GELEPHU-SALAKATI	-34	-9	19	0.5
	NER	132kV MOTANGA-RANGIA	59	1	27	0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-37	0	-2	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-9	0	-2	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-171	65	22	0.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-729	-714	-720	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-107	-2.6