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 August 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 28.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-अगस्त-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 August 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-Aug-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)	59742	55168	38973	22548	2930	179361
Peak Shortage (MW)	2403	1409	1952	0	25	5789
Energy Met (MU)	1444	1310	926	484	54	4218
Hydro Gen (MU)	332	70	138	149	31	720
Wind Gen (MU)	15	45	143	-	-	203
Solar Gen (MU)*	57.81	34.35	55.93	4.27	0.25	153
Energy Shortage (MU)	40.23	31.90	5.40	0.00	0.13	77.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65066	56613	44610	22622	2904	185861
Time Of Maximum Demand Met (From NLDC SCADA)	13:45	10:16	09:54	20:11	20:31	11:31

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	0.039	0.17	1.34	6.87	8.39	79.64	11.97

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	12090	0	269.5	154.3	-1.3	99	0.00
	Haryana	10272	0	227.2	166.1	0.9	322	0.00
	Rajasthan	14136	875	287.6	136.2	7.0	571	26.66
	Delhi	5602	0	114.7	89.1	-2.1	132	0.01
	UP	19995	890	424.3	184.1	0.0	342	7.19
	Uttarakhand	1764	75	36.0	10.8	0.4	179	2.92
	HP	1519	0	34.0	-4.2	1.3	246	0.00
	J&K(UT) & Ladakh(UT)	2315	200	44.1	19.8	-0.1	228	3.45
	Chandigarh	295	0	6.2	6.1	0.0	48	0.00
WR	Chhattisgarh	4736	0	111.9	62.0	0.0	375	1.40
	Gujarat	19164	75	423.7	200.8	2.8	640	4.60
	MP	9526	942	217.4	141.9	1.2	796	25.90
	Maharashtra	22371	0	498.9	153.7	5.2	587	0.00
	Goa	575	0	12.8	11.6	0.6	24	0.00
	DD	339	0	7.6	7.4	0.2	67	0.00
	DNH	850	0	19.8	20.1	-0.3	30	0.00
	AMNSIL	858	0	18.0	3.9	0.0	303	0.00
SR	Andhra Pradesh	8167	0	172.6	67.1	5.7	1429	5.40
	Telangana	9573	0	190.3	47.2	-2.6	807	0.00
	Karnataka	9750	0	180.0	44.2	-3.6	687	0.00
	Kerala	3177	0	68.4	29.4	-0.7	223	0.00
	Tamil Nadu	14004	0	306.5	119.9	-2.8	774	0.00
	Puducherry	381	0	8.0	8.5	-0.6	26	0.00
ER	Bihar	5672	0	107.8	102.2	-0.6	374	0.00
	DVC	3134	0	66.5	-32.6	1.6	370	0.00
	Jharkhand	1433	0	29.2	22.9	-0.8	217	0.00
	Odisha	5272	0	112.4	28.0	-1.3	325	0.00
	West Bengal	8325	0	166.2	49.6	-0.9	488	0.00
	Sikkim	87	0	1.5	1.4	0.1	26	0.00
NER	Arunachal Pradesh	125	0	2.3	2.4	-0.1	13	0.00
	Assam	1923	0	34.6	28.5	-0.4	103	0.09
	Manipur	202	0	2.6	2.5	0.1	46	0.00
	Meghalaya	328	0	5.9	1.2	-0.4	53	0.00
	Mizoram	107	0	1.6	1.2	0.0	25	0.00
	Nagaland	129	0	2.3	2.2	0.1	31	0.00
	Tripura	288	25	5.1	5.6	-0.2	99	0.04

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	50.7	6.4	-20.0
Day Peak (MW)	2231.0	87.5	-870.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	343.4	-157.7	-44.9	-138.2	-2.7	0.0
Actual(MU)	350.6	-153.3	-53.6	-141.9	-3.1	-1.5
O/D/U/D(MU)	7.2	4.4	-8.7	-3.8	-0.5	-1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6437	14958	9592	1915	1059	33960	45
State Sector	8860	18608	8575	4775	47	40865	55
Total	15297	33566	18167	6690	1105	74824	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	605	1193	537	503	6	2844	66
Lignite	22	11	39	0	0	72	2
Hydro	332	70	138	149	31	720	17
Nuclear	21	32	38	0	0	91	2
Gas, Naptha & Diesel	44	86	10	0	27	168	4
RES (Wind, Solar, Biomass & Others)	90	80	233	4	0	407	9
Total	1115	1472	994	656	64	4302	100

Share of RES in total generation (%)	8.09	5.42	23.40	0.64	0.39	9.46	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.81	12.35	41.06	23.32	49.14	28.33	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.068

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-Aug-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	1402	0.0	34.2	-34.2
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.4	-6.4
3	765 kV	GAYA-VARANASI	2	0	436	0.0	3.6	-3.6
4	765 kV	SASARAM-FATEHPUR	1	2	251	0.0	3.2	-3.2
5	765 kV	GAYA-BALIA	1	0	522	0.0	8.7	-8.7
6	400 kV	PUSAULI-VARANASI	1	0	147	0.0	2.8	-2.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	171	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	728	0.0	14.1	-14.1
9	400 kV	PATNA-BALIA	4	0	980	0.0	19.4	-19.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	295	0.0	5.5	-5.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	433	0.0	8.3	-8.3
12	400 kV	BIHARSHARIFF-VARANASI	2	0	177	0.0	2.4	-2.4
13	220 kV	PUSAULI-SAHUPURI	1	9	67	0.0	0.9	-0.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7
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	0.7	112.8	-112.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	108	956	0.0	11.2	-11.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1229	0	16.6	0.0	16.6
3	765 kV	JHARSUGUDA-DURG	2	114	89	0.1	0.0	0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	439	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	291	0	3.4	0.0	3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	174	0.0	3.3	-3.3
7	220 kV	BUDHIPADAR-KORBA	2	7	60	0.0	0.6	-0.6
					ER-WR	20.1	21.6	-1.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	290	0.0	6.2	-6.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1189	0.0	26.9	-26.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	1971	0.0	31.9	-31.9
4	400 kV	TALCHER-I/C	2	749	0	15.7	0.0	15.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	65.0	-65.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	461	0.0	5.4	-5.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	61	529	0.0	3.5	-3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	140	0.0	1.8	-1.8
					ER-NER	0.0	10.7	-10.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	653	0.0	15.4	-15.4
					NER-NR	0.0	15.4	-15.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3026	0.0	51.9	-51.9
2	HVDC	VINDHYACHAL B/B	-	48	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	296	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2254	0.0	40.0	-40.0
5	765 kV	GWALIOR-PHAGI	2	0	2411	0.0	51.7	-51.7
6	765 kV	JABALPUR-ORAI	2	0	1219	0.0	45.7	-45.7
7	765 kV	GWALIOR-ORAI	1	827	0	17.0	0.0	17.0
8	765 kV	SATNA-ORAI	1	0	1092	0.0	24.1	-24.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1233	0	18.3	0.0	18.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3136	0.0	59.5	-59.5
11	400 kV	ZERDA-KANKROLI	1	240	0	3.6	0.0	3.6
12	400 kV	ZERDA -BHINMAL	1	384	37	3.8	0.0	3.8
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	0	784	0.0	12.6	-12.6
15	220 kV	BHANPURA-RANPUR	1	0	119	0.0	2.2	-2.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	117	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	75	9	1.6	0.0	1.6
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	68.4	296.7	-228.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	18.8	0.0	18.8
2	HVDC	RAIGARH-PUGALUR	2	1457	0	29.9	0.0	29.9
3	765 kV	SOLAPUR-RAICHUR	2	1685	467	14.5	0.0	14.5
4	765 kV	WARDHA-NIZAMABAD	2	148	1481	0.1	16.7	-16.6
5	400 kV	KOLHAPUR-KUDGI	2	1424	0	25.6	0.0	25.6
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	92	1.6	0.0	1.6
					WR-SR	90.5	16.7	73.8

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)	828	0	792	19.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1030	0	997	23.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	281	0	256	6.2
	NER	132kV GELEPHU-SALAKATI	36	21	27	0.7
	NER	132kV MOTANGA-RANGIA	56	15	38	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-37	0	-1	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	125	30	85	2.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	0	0	0	4.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-719	-711	-714	-17.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-151	0	-122	-2.9