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:01st 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 31.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31th 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:** **01-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)	60294	49050	40631	22232	3047	175254
Peak Shortage (MW)	200	0	110	863	2	1175
Energy Met (MU)	1387	1149	905	483	58	3981
Hydro Gen (MU)	321	34	113	146	34	649
Wind Gen (MU)	18	66	123	-	-	207
Solar Gen (MU)*	54.03	27.03	82.48	4.89	0.25	169
Energy Shortage (MU)	3.46	0.00	0.53	3.77	0.00	7.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62848	50708	42937	23085	3109	176769
Time Of Maximum Demand Met (From NLDC SCADA)	10:45	10:22	11:37	20:34	19:04	10:20

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	0.028	0.00	0.00	1.53	1.53	68.28	30.19

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	12167	0	280.5	162.7	-0.9	93	0.00
	Haryana	9157	0	204.1	153.5	-1.5	360	0.00
	Rajasthan	13109	0	270.0	108.1	0.1	823	0.00
	Delhi	4910	0	104.6	84.5	-2.1	266	0.01
	UP	20474	0	398.7	183.2	-2.4	558	0.00
	Uttarakhand	1922	0	42.2	12.6	1.6	171	0.00
	HP	1486	0	32.5	-1.0	-0.1	90	0.00
	J&K(UT) & Ladakh(UT)	2441	250	48.1	23.7	0.5	367	3.45
	Chandigarh	303	0	6.1	6.3	-0.2	14	0.00
WR	Chhattisgarh	4531	0	109.6	58.3	0.4	342	0.00
	Gujarat	15158	0	325.4	173.7	0.5	713	0.00
	MP	9662	0	219.3	142.3	0.3	687	0.00
	Maharashtra	19883	0	435.9	141.1	-0.7	575	0.00
	Goa	588	0	12.2	11.5	0.2	83	0.00
	DD	328	0	7.4	7.2	0.2	32	0.00
	DNH	840	0	19.6	19.8	-0.2	57	0.00
	AMNSIL	865	0	19.3	7.5	-0.5	261	0.00
SR	Andhra Pradesh	8267	0	178.1	72.1	1.2	666	0.00
	Telangana	7385	0	152.7	21.1	-1.3	322	0.00
	Karnataka	9030	0	176.6	6.7	0.0	959	0.00
	Kerala	3513	110	71.2	42.5	-0.1	221	0.53
	Tamil Nadu	14687	0	317.8	140.8	0.8	706	0.00
	Puducherry	396	0	8.2	8.5	-0.2	33	0.00
ER	Bihar	6003	0	116.1	107.8	1.0	418	1.67
	DVC	3135	0	65.5	-31.2	0.1	444	0.42
	Jharkhand	1526	0	29.7	24.1	-1.8	179	1.68
	Odisha	4658	0	102.1	23.1	-0.6	359	0.00
	West Bengal	8503	0	168.2	51.0	-0.5	414	0.00
	Sikkim	82	0	1.3	1.5	-0.2	14	0.00
NER	Arunachal Pradesh	136	0	2.4	2.7	-0.3	18	0.00
	Assam	2004	0	37.5	30.1	0.7	179	0.00
	Manipur	203	0	2.7	2.6	0.1	22	0.00
	Meghalaya	323	0	5.9	1.1	-0.2	27	0.00
	Mizoram	103	0	1.5	1.2	-0.1	51	0.00
	Nagaland	133	0	2.6	2.1	0.0	11	0.00
	Tripura	299	2	5.5	5.2	-0.2	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.8	0.5	-20.5
Day Peak (MW)	2307.0	162.6	-881.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	320.4	-115.2	-69.9	-129.4	-6.0	0.0
Actual(MU)	308.3	-103.9	-59.6	-142.6	-7.6	-5.3
O/D/U/D(MU)	-12.1	11.2	10.3	-13.2	-1.6	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5600	16398	8672	1915	694	33278	46
State Sector	8995	19026	7065	3855	111	39052	54
Total	14595	35424	15737	5770	805	72330	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	599	1072	535	505	9	2720	67
Lignite	20	11	39	0	0	70	2
Hydro	321	34	113	146	34	649	16
Nuclear	26	20	42	0	0	88	2
Gas, Naptha & Diesel	46	43	12	0	28	129	3
RES (Wind, Solar, Biomass & Others)	89	93	238	5	0	425	10
Total	1101	1272	980	656	72	4081	100

Share of RES in total generation (%)	8.06	7.31	24.34	0.75	0.35	10.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.65	11.53	40.14	23.04	48.34	28.48

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.065

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: 01-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	25.6	-25.6
2	HVDC	PUSAULI B/B	-	2	247	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	190	404	0.0	4.7	-4.7
4	765 kV	SASARAM-FATEHPUR	1	481	261	0.0	1.8	-1.8
5	765 kV	GAYA-BALIA	1	0	518	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	41	157	0.0	2.8	-2.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	166	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	724	0.0	13.4	-13.4
9	400 kV	PATNA-BALIA	4	0	994	0.0	17.6	-17.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	289	0.0	4.2	-4.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	443	0.0	7.6	-7.6
12	400 kV	BIHARSHARIFF-VARANASI	2	61	216	0.0	2.3	-2.3
13	220 kV	PUSAULI-SAHUPURI	1	8	233	0.0	1.8	-1.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6
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	0.6	99.5	-98.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1312	0.0	16.7	-16.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1202	0	19.7	0.0	19.7
3	765 kV	JHARSUGUDA-DURG	2	108	168	0.0	1.4	-1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	570	0.0	8.2	-8.2
5	400 kV	RANCHI-SIPAT	2	252	34	3.4	0.0	3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	196	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	19	96	0.0	0.8	-0.8
					ER-WR	23.1	30.5	-7.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	298	0	7.2	0.0	7.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	43.2	-43.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2591	0.0	41.7	-41.7
4	400 kV	TALCHER-I/C	2	513	293	0.5	0.0	0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	7.2	84.9	-77.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	71	354	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	168	467	0.0	2.1	-2.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	128	0.0	1.4	-1.4
					ER-NER	0.0	6.5	-6.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	653	0.0	15.6	-15.6
					NER-NR	0.0	15.6	-15.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2514	0.0	38.5	-38.5
2	HVDC	VINDHYACHAL B/B	-	244	0	3.5	0.0	3.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	590	0.0	10.9	-10.9
4	765 kV	GWALIOR-AGRA	2	0	2220	0.0	39.1	-39.1
5	765 kV	GWALIOR-PHAGI	2	0	2117	0.0	41.7	-41.7
6	765 kV	JABALPUR-ORAI	2	0	1211	0.0	42.8	-42.8
7	765 kV	GWALIOR-ORAI	1	756	0	14.2	0.0	14.2
8	765 kV	SATNA-ORAI	1	0	1019	0.0	21.8	-21.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1108	0	14.0	0.0	14.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3178	0.0	58.5	-58.5
11	400 kV	ZERDA-KANKROLI	1	246	30	3.3	0.0	3.3
12	400 kV	ZERDA -BHINMAL	1	391	195	3.8	0.0	3.8
13	400 kV	VINDHYACHAL -RIHAND	1	970	0	21.3	0.0	21.3
14	400 kV	RAPP-SHUJALPUR	2	0	654	0.0	9.0	-9.0
15	220 kV	BHANPURA-RANPUR	1	0	108	0.0	1.5	-1.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	111	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	78	0	1.4	0.0	1.4
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	62.3	264.6	-202.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	997	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2156	0	43.8	0.0	43.8
3	765 kV	SOLAPUR-RAICHUR	2	1914	1043	12.0	0.0	12.0
4	765 kV	WARDHA-NIZAMABAD	2	365	1665	0.0	13.0	-13.0
5	400 kV	KOLHAPUR-KUDGI	2	1438	0	23.5	0.0	23.5
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	78	1.2	0.0	1.2
					WR-SR	104.5	13.0	91.5

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)	850	0	789	18.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1044	1025	1030	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	326	263	265	6.4
	NER	132kV GELEPHU-SALAKATI	33	21	28	0.7
	NER	132kV MOTANGA-RANGIA	55	26	44	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-26	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	129	0	1	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	60	-64	21	0.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-730	-724	-724	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-151	0	-129	-3.1