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:04th 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 03.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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:** **04-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)	57752	51228	40084	24219	3066	176349
Peak Shortage (MW)	200	0	0	500	3	873
Energy Met (MU)	1294	1175	904	518	57	3948
Hydro Gen (MU)	302	42	121	153	34	652
Wind Gen (MU)	4	77	75	-	-	155
Solar Gen (MU)*	35.00	32.38	65.52	5.14	0.27	138
Energy Shortage (MU)	3.45	0.00	0.00	3.21	0.21	6.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58302	51323	43017	24266	3094	176402
Time Of Maximum Demand Met (From NLDC SCADA)	19:43	10:06	11:30	23:01	19:33	19:41

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	0.023	0.00	0.00	0.38	0.38	73.50	26.12

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	11372	0	246.3	160.0	-3.0	94	0.00
	Haryana	8310	0	172.8	122.6	-1.6	206	0.00
	Rajasthan	9950	0	222.2	83.8	2.1	652	0.00
	Delhi	5130	0	102.7	92.9	-1.9	100	0.00
	UP	20872	0	422.1	168.7	-2.4	357	0.00
	Uttarakhand	1938	0	43.1	14.3	0.3	177	0.00
	HP	1460	0	30.6	-1.5	-0.4	74	0.00
	J&K(UT) & Ladakh(UT)	2397	200	48.0	24.8	-0.3	387	3.45
	Chandigarh	286	0	5.9	5.9	0.0	43	0.00
WR	Chhattisgarh	4870	0	115.1	63.0	0.6	290	0.00
	Gujarat	14373	0	316.7	168.4	-1.9	774	0.00
	MP	10399	0	231.5	151.9	1.0	914	0.00
	Maharashtra	20700	0	456.1	146.3	0.0	600	0.00
	Goa	590	0	12.5	11.7	0.2	28	0.00
	DD	337	0	7.5	7.2	0.3	70	0.00
	DNH	825	0	19.3	19.2	0.1	67	0.00
	AMNSIL	758	0	16.4	5.1	-1.4	211	0.00
SR	Andhra Pradesh	8520	0	176.9	72.8	3.2	1035	0.00
	Telangana	8439	0	171.7	46.2	-1.3	313	0.00
	Karnataka	9480	0	178.9	21.1	-0.6	635	0.00
	Kerala	3490	0	71.8	45.5	-0.3	280	0.00
	Tamil Nadu	13780	0	296.6	149.2	1.8	1448	0.00
	Puducherry	378	0	8.0	8.2	-0.2	25	0.00
ER	Bihar	6194	0	119.1	112.6	-1.4	377	1.07
	DVC	3094	0	67.0	-37.6	0.0	215	0.33
	Jharkhand	1450	193	29.1	23.8	-2.2	160	1.81
	Odisha	5639	0	118.5	41.2	0.9	499	0.00
	West Bengal	8904	0	182.8	59.9	0.1	384	0.00
	Sikkim	81	0	1.4	1.3	0.1	28	0.00
NER	Arunachal Pradesh	138	0	2.3	2.5	-0.2	11	0.00
	Assam	1995	0	37.2	29.4	0.9	172	0.00
	Manipur	213	0	2.7	2.7	0.1	38	0.00
	Meghalaya	317	0	5.8	0.8	0.2	32	0.00
	Mizoram	100	0	1.6	1.2	-0.1	39	0.00
	Nagaland	142	0	2.3	1.9	-0.2	24	0.20
	Tripura	308	3	5.6	4.9	0.0	30	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.6	0.8	-20.3
Day Peak (MW)	2261.0	190.7	-865.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	271.5	-113.6	-6.8	-142.4	-8.7	0.0
Actual(MU)	265.8	-109.1	-6.9	-146.8	-9.7	-6.8
O/D/U/D(MU)	-5.7	4.4	-0.1	-4.4	-1.0	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4622	15401	8442	1915	694	31073	43
State Sector	8920	19416	8965	4445	11	41757	57
Total	13542	34817	17407	6360	705	72831	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	612	1064	515	538	11	2740	68
Lignite	24	12	42	0	0	78	2
Hydro	302	42	121	153	34	652	16
Nuclear	26	24	59	0	0	110	3
Gas, Naptha & Diesel	33	44	10	0	27	115	3
RES (Wind, Solar, Biomass & Others)	55	109	176	5	0	346	9
Total	1053	1296	923	696	73	4040	100

Share of RES in total generation (%)	5.24	8.44	19.06	0.74	0.37	8.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.43	13.59	38.54	22.68	47.64	27.42

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.061

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: 04-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	29.7	-29.7
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	181	371	0.0	3.2	-3.2
4	765 kV	SASARAM-FATEHPUR	1	84	167	0.0	1.5	-1.5
5	765 kV	GAYA-BALIA	1	0	498	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	172	0.0	3.6	-3.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	123	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	731	0.0	12.5	-12.5
9	400 kV	PATNA-BALIA	4	0	1023	0.0	19.9	-19.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	316	0.0	5.0	-5.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	433	0.0	7.9	-7.9
12	400 kV	BIHARSHARIFF-VARANASI	2	85	123	0.0	1.0	-1.0
13	220 kV	PUSAULI-SAHUPURI	1	6	108	0.0	1.5	-1.5
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	0.7	102.7	-102.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	114	712	0.0	7.8	-7.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	854	63	10.9	0.0	10.9
3	765 kV	JHARSUGUDA-DURG	2	0	234	0.0	2.8	-2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	541	0.0	8.7	-8.7
5	400 kV	RANCHI-SIPAT	2	155	109	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	194	0.0	3.7	-3.7
7	220 kV	BUDHIPADAR-KORBA	2	31	67	0.0	0.6	-0.6
					ER-WR	12.0	23.5	-11.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	325	8	7.4	0.0	7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1588	0.0	28.5	-28.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2990	0.0	53.8	-53.8
4	400 kV	TALCHER-I/C	2	814	0	13.3	0.0	13.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	7.4	82.3	-74.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	82	346	0.0	2.7	-2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	219	407	0.0	0.7	-0.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	114	0.0	1.1	-1.1
					ER-NER	0.0	4.5	-4.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	653	0.0	15.7	-15.7
					NER-NR	0.0	15.7	-15.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2015	0.0	36.9	-36.9
2	HVDC	VINDHYACHAL B/B	-	47	152	0.3	1.5	-1.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	769	0.0	8.9	-8.9
4	765 kV	GWALIOR-AGRA	2	0	1851	0.0	26.5	-26.5
5	765 kV	GWALIOR-PHAGI	2	0	1808	0.0	36.1	-36.1
6	765 kV	JABALPUR-ORAI	2	0	943	0.0	34.3	-34.3
7	765 kV	GWALIOR-ORAI	1	739	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	943	0.0	19.2	-19.2
9	765 kV	BANASKANTHA-CHITORGARH	2	882	0	13.8	0.0	13.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2668	0.0	47.1	-47.1
11	400 kV	ZERDA-KANKROLI	1	202	0	3.2	0.0	3.2
12	400 kV	ZERDA -BHINMAL	1	317	293	3.3	0.0	3.3
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	0	400	0.0	5.5	-5.5
15	220 kV	BHANPURA-RANPUR	1	11	82	0.0	0.8	-0.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.3	0.2	0.1
17	220 kV	MEHGAON-AURAIYA	1	164	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	100	0	2.2	0.0	2.2
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	59.9	217.0	-157.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	794	0	14.4	0.0	14.4
2	HVDC	RAIGARH-PUGALUR	2	1912	0	38.4	0.0	38.4
3	765 kV	SOLAPUR-RAICHUR	2	911	1967	0.0	10.5	-10.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2417	0.0	29.2	-29.2
5	400 kV	KOLHAPUR-KUDGI	2	1497	0	22.0	0.0	22.0
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	81	1.5	0.0	1.5
					WR-SR	76.2	39.7	36.6

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)	837	0	828	19.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1039	0	1025	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	298	266	269	6.5
	NER	132kV GELEPHU-SALAKATI	33	20	27	0.7
	NER	132kV MOTANGA-RANGIA	54	30	44	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-12	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	154	12	15	0.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	102	-22	33	0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-730	-722	-723	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-121	-2.9