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:03rd 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 02.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd 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:** **03-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)	60151	50250	40537	23093	2860	176891
Peak Shortage (MW)	200	0	0	389	0	589
Energy Met (MU)	1337	1156	933	505	54	3985
Hydro Gen (MU)	314	42	134	151	34	676
Wind Gen (MU)	8	44	109	-	-	161
Solar Gen (MU)*	45.26	31.30	80.15	5.13	0.05	162
Energy Shortage (MU)	4.58	0.00	0.00	5.92	0.00	10.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60749	50779	44969	23390	2996	177703
Time Of Maximum Demand Met (From NLDC SCADA)	19:58	19:29	11:56	19:38	18:47	19:24

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	0.049	0.54	1.10	9.54	11.18	77.09	11.73

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	12062	0	273.2	158.0	-1.6	52	0.00
	Haryana	8529	0	181.8	130.9	-0.1	265	0.00
	Rajasthan	11148	0	235.6	101.8	0.2	478	0.00
	Delhi	4664	0	95.9	84.1	-1.8	48	0.00
	UP	21808	0	419.6	163.5	1.6	577	1.13
	Uttarakhand	1953	0	42.7	14.4	0.2	119	0.00
	HP	1486	0	32.6	-0.9	-0.1	200	0.00
	J&K(UT) & Ladakh(UT)	2523	250	50.0	24.2	2.3	360	3.45
	Chandigarh	281	0	5.9	6.0	-0.1	17	0.00
WR	Chhattisgarh	4863	0	115.1	62.2	0.7	392	0.00
	Gujarat	13891	0	307.3	171.9	2.9	1108	0.00
	MP	10086	0	227.3	147.1	1.1	567	0.00
	Maharashtra	20502	0	450.5	148.7	-2.1	615	0.00
	Goa	595	0	12.3	11.4	0.3	21	0.00
	DD	328	0	7.3	7.0	0.3	91	0.00
	DNH	839	0	19.5	19.4	0.1	70	0.00
	AMNSIL	801	0	16.2	7.5	-0.2	245	0.00
SR	Andhra Pradesh	8323	0	179.8	71.0	0.5	542	0.00
	Telangana	9061	0	178.0	37.4	-0.4	669	0.00
	Karnataka	9886	0	185.6	18.4	-0.8	605	0.00
	Kerala	3466	0	72.2	45.8	-0.4	345	0.00
	Tamil Nadu	14724	0	308.8	141.9	-1.8	519	0.00
	Puducherry	364	0	8.1	8.4	-0.3	47	0.00
ER	Bihar	6186	0	121.3	113.0	0.4	651	2.53
	DVC	3053	0	67.5	-38.0	0.1	287	0.04
	Jharkhand	1470	0	30.1	23.4	-0.8	277	3.35
	Odisha	5203	0	106.7	28.4	0.2	346	0.00
	West Bengal	8549	0	178.3	55.9	-0.6	461	0.00
	Sikkim	84	0	1.3	1.3	0.1	31	0.00
NER	Arunachal Pradesh	133	0	2.2	2.4	-0.1	28	0.00
	Assam	1877	0	34.2	28.2	0.4	99	0.00
	Manipur	204	0	2.6	2.5	0.1	60	0.00
	Meghalaya	330	0	6.0	0.7	-0.2	54	0.00
	Mizoram	106	0	1.5	1.2	-0.1	42	0.00
	Nagaland	130	0	2.4	2.1	-0.2	30	0.00
	Tripura	300	0	5.3	5.1	-0.1	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.3	0.7	-20.4
Day Peak (MW)	2262.0	86.1	-874.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	287.8	-106.1	-24.6	-146.8	-10.4	0.0
Actual(MU)	282.0	-91.5	-35.1	-145.3	-14.9	-4.8
O/D/U/D(MU)	-5.7	14.6	-10.5	1.5	-4.6	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4762	17851	8832	2115	694	34253	46
State Sector	8950	19491	7775	4165	11	40392	54
Total	13712	37342	16607	6280	705	74645	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	618	1064	528	519	15	2744	68
Lignite	23	13	39	0	0	74	2
Hydro	314	42	134	151	34	676	17
Nuclear	26	20	48	0	0	95	2
Gas, Naptha & Diesel	29	39	11	0	26	105	3
RES (Wind, Solar, Biomass & Others)	70	76	221	5	0	371	9
Total	1079	1254	981	675	75	4064	100

Share of RES in total generation (%)	6.44	6.02	22.55	0.76	0.07	9.14
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.97	11.00	41.12	23.12	45.99	28.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
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: 03-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	1501	0.0	28.7	-28.7
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	76	407	0.0	3.8	-3.8
4	765 kV	SASARAM-FATEHPUR	1	86	204	0.0	1.6	-1.6
5	765 kV	GAYA-BALIA	1	0	520	0.0	9.2	-9.2
6	400 kV	PUSAULI-VARANASI	1	0	162	0.0	3.5	-3.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	128	0.0	2.4	-2.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	815	0.0	14.6	-14.6
9	400 kV	PATNA-BALIA	4	0	986	0.0	19.9	-19.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	356	0.0	5.5	-5.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	437	0.0	8.3	-8.3
12	400 kV	BIHARSHARIFF-VARANASI	2	39	179	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	1	0	110	0.0	1.3	-1.3
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	106.3	-105.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	947	0.0	12.2	-12.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1068	29	14.7	0.0	14.7
3	765 kV	JHARSUGUDA-DURG	2	7	365	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	600	0.0	9.3	-9.3
5	400 kV	RANCHI-SIPAT	2	194	93	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	207	0.0	3.7	-3.7
7	220 kV	BUDHIPADAR-KORBA	2	1	84	0.0	0.9	-0.9
					ER-WR	16.4	30.2	-13.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	302	0	7.3	0.0	7.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1489	0.0	33.3	-33.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2591	0.0	45.0	-45.0
4	400 kV	TALCHER-I/C	2	640	0	6.7	0.0	6.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	7.3	78.3	-71.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	220	287	0.0	0.5	-0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	271	319	1.6	0.0	1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	16	103	0.0	0.6	-0.6
					ER-NER	1.6	1.1	0.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	653	0.0	15.8	-15.8
					NER-NR	0.0	15.8	-15.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	752	0.0	29.4	-29.4
2	HVDC	VINDHYACHAL B/B	-	243	203	0.5	3.5	-3.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1000	7.4	1.7	5.8
4	765 kV	GWALIOR-AGRA	2	0	1874	0.0	32.3	-32.3
5	765 kV	GWALIOR-PHAGI	2	0	2044	0.0	41.0	-41.0
6	765 kV	JABALPUR-ORAI	2	0	958	0.0	39.5	-39.5
7	765 kV	GWALIOR-ORAI	1	787	0	15.0	0.0	15.0
8	765 kV	SATNA-ORAI	1	0	906	0.0	20.3	-20.3
9	765 kV	BANASKANTHA-CHITORGARH	2	916	0	12.6	0.0	12.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	0	0.0	54.2	-54.2
11	400 kV	ZERDA-KANKROLI	1	171	0	2.3	0.0	2.3
12	400 kV	ZERDA -BHINMAL	1	193	113	1.2	0.0	1.2
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	0	506	0.0	8.5	-8.5
15	220 kV	BHANPURA-RANPUR	1	0	111	0.0	1.3	-1.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.6	-0.5
17	220 kV	MEHGAON-AURAIYA	1	128	0	2.0	0.0	2.0
18	220 kV	MALANPUR-AURAIYA	1	88	0	1.2	0.0	1.2
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	64.3	232.2	-167.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	797	0	14.6	0.0	14.6
2	HVDC	RAIGARH-PUGALUR	2	0	0	34.4	0.0	34.4
3	765 kV	SOLAPUR-RAICHUR	2	1079	1091	7.9	3.2	4.7
4	765 kV	WARDHA-NIZAMABAD	2	21	1748	0.0	18.0	-18.0
5	400 kV	KOLHAPUR-KUDGI	2	1438	0	25.4	0.0	25.4
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	1.6	0.0	1.6
					WR-SR	83.8	21.2	62.6

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)	857	808	856	20.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1038	1009	1024	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	283	184	238	5.7
	NER	132kV GELEPHU-SALAKATI	36	20	25	0.6
	NER	132kV MOTANGA-RANGIA	49	0	34	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-15	-0.4
	ER	NEPAL IMPORT (FROM BIHAR)	65	-9	8	0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	86	0	38	0.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-726	0	-723	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-148	0	-129	-3.1