



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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:11th 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., डोंगतेह, 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 10.09.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-सितंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 10th 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: 11-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)	56205	45621	38729	24145	3075	167775
Peak Shortage (MW)	200	0	0	139	3	342
Energy Met (MU)	1292	1054	934	528	59	3866
Hydro Gen (MU)	320	26	107	144	34	631
Wind Gen (MU)	7	92	192	-	-	291
Solar Gen (MU)*	50.27	25.88	98.61	4.31	0.33	179
Energy Shortage (MU)	7.45	0.00	0.00	1.43	0.04	8.92
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59385	45663	44182	24207	3113	167780
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	19:21	09:29	19:59	18:42	19:20

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	0.030	0.00	0.00	1.82	1.82	75.34	22.84

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	10488	0	222.1	151.2	-1.8	137	0.00
	Haryana	8253	0	179.5	131.4	-0.2	182	0.00
	Rajasthan	10861	0	235.2	101.0	-2.8	592	0.00
	Delhi	5064	0	107.7	93.0	-1.3	117	0.00
	UP	21158	0	422.5	181.2	-1.7	505	4.00
	Uttarakhand	2010	0	42.6	13.4	-1.3	110	0.00
	HP	1518	0	32.4	-2.2	-1.3	125	0.00
	J&K(UT) & Ladakh(UT)	2254	250	43.8	20.5	-0.3	174	3.45
WR	Chandigarh	303	0	6.0	6.3	-0.2	15	0.00
	Chhattisgarh	3962	0	96.6	44.6	-0.3	201	0.00
	Gujarat	13108	0	298.0	188.3	0.0	610	0.00
	MP	9290	0	206.8	131.8	0.2	492	0.00
	Maharashtra	18581	0	398.8	121.5	-4.8	593	0.00
	Goa	446	0	9.9	8.9	0.4	48	0.00
	DD	301	0	6.8	6.4	0.4	29	0.00
	DNH	829	0	18.4	18.3	0.1	62	0.00
	AMNSIL	863	0	18.4	4.3	-0.2	193	0.00
	SR	Andhra Pradesh	8922	0	186.6	60.0	-1.1	650
Telangana		9420	0	182.0	44.0	-1.5	469	0.00
Karnataka		8774	0	168.6	23.0	-0.9	820	0.00
Kerala		3606	0	73.1	49.6	0.1	229	0.00
Tamil Nadu		14036	0	315.1	144.8	-1.1	400	0.00
ER	Puducherry	384	0	8.3	8.6	-0.3	36	0.00
	Bihar	6486	0	128.6	122.7	-0.7	303	0.62
	DVC	3125	0	69.5	-39.5	0.4	317	0.00
	Jharkhand	1567	0	32.7	25.9	0.0	222	0.81
	Odisha	5642	0	117.4	40.8	-0.9	399	0.00
	West Bengal	8371	0	177.8	56.9	-0.7	383	0.00
	Sikkim	96	0	1.6	0.2	1.4	95	0.00
NER	Arunachal Pradesh	145	0	2.4	2.4	-0.3	27	0.00
	Assam	2070	0	39.6	32.9	0.1	128	0.03
	Manipur	135	0	2.3	2.3	0.0	31	0.00
	Meghalaya	311	0	5.8	0.3	0.0	28	0.00
	Mizoram	105	0	1.3	1.2	-0.3	15	0.00
	Nagaland	143	0	2.6	2.2	-0.1	28	0.00
	Tripura	306	3	5.4	5.3	-0.4	22	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.6	0.6	-19.9
Day Peak (MW)	2275.0	59.0	-863.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	295.7	-124.8	-27.0	-135.7	-8.2	0.0
Actual(MU)	282.7	-124.4	-31.2	-121.3	-9.5	-3.6
O/D/U/D(MU)	-13.0	0.5	-4.2	14.4	-1.3	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5640	18395	8222	1715	409	34380	43
State Sector	9430	21802	10418	3855	11	45516	57
Total	15070	40196	18640	5570	420	79896	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	552	993	426	527	13	2511	63
Lignite	24	10	45	0	0	79	2
Hydro	320	26	107	144	34	631	16
Nuclear	26	28	65	0	0	120	3
Gas, Naptha & Diesel	33	25	11	0	27	96	2
RES (Wind, Solar, Biomass & Others)	76	118	322	4	0	520	13
Total	1031	1200	976	676	74	3957	100

Share of RES in total generation (%)	7.33	9.81	33.04	0.64	0.44	13.15
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	40.95	14.30	50.70	21.95	46.08	32.12

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.090

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: 11-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	29.3	-29.3	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	383	315	1.2	0.0	1.2	
4	765 kV	SASARAM-FATEHPUR	1	149	151	0.3	0.0	0.3	
5	765 kV	GAYA-BALIA	1	0	598	0.0	10.8	-10.8	
6	400 kV	PUSAULI-VARANASI	1	0	170	0.0	3.6	-3.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	129	0.0	2.4	-2.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	697	0.0	12.6	-12.6	
9	400 kV	PATNA-BALIA	4	0	1031	0.0	17.9	-17.9	
10	400 kV	BIHARSHARIF-BALIA	2	0	336	0.0	4.7	-4.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	383	0.0	6.6	-6.6	
12	400 kV	BIHARSHARIF-VARANASI	2	123	166	0.0	0.8	-0.8	
13	220 kV	PUSAULI-SAHUPURI	1	0	115	0.0	1.5	-1.5	
14	132 kV	SONE NAGAR-RIHAND	1	0	43	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	2.0	96.3	-94.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	30	740	0.0	9.2	-9.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1330	0	19.6	0.0	19.6	
3	765 kV	JHARSUGUDA-DURG	2	168	171	0.0	0.3	-0.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	488	0.0	6.5	-6.5	
5	400 kV	RANCHI-SIPAT	2	301	76	2.8	0.0	2.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	170	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	82	60	0.0	0.2	-0.2	
						ER-WR	22.4	18.6	3.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	211	0	4.8	0.0	4.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1345	0.0	28.7	-28.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2829	0.0	45.7	-45.7	
4	400 kV	TALCHER/JC	2	550	270	13.8	0.0	13.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	4.8	74.4	-69.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	50	313	0.0	3.9	-3.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	177	354	0.0	2.4	-2.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	128	0.0	1.8	-1.8	
						ER-NER	0.0	8.0	-8.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	803	0.0	19.3	-19.3	
						NER-NR	0.0	19.3	-19.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2011	0.0	36.6	-36.6	
2	HVDC	VINDHYACHAL B/B	-	200	298	0.6	0.5	0.0	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	443	0.0	10.9	-10.9	
4	765 kV	GWALIOR-AGRA	2	0	1827	0.0	31.9	-31.9	
5	765 kV	GWALIOR-PHAGI	2	0	2124	0.0	39.5	-39.5	
6	765 kV	JABALPUR-ORAI	2	0	1025	0.0	36.7	-36.7	
7	765 kV	GWALIOR-ORAI	1	949	0	15.1	0.0	15.1	
8	765 kV	SATNA-ORAI	1	0	966	0.0	20.4	-20.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1230	0	21.3	0.0	21.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3217	0.0	64.7	-64.7	
11	400 kV	ZERDA-KANKROLI	1	259	0	4.7	0.0	4.7	
12	400 kV	ZERDA-BHINMAL	1	484	0	6.1	0.0	6.1	
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHUALPUR	2	0	513	0.0	6.0	-6.0	
15	220 kV	BHANPURA-RANPUR	1	0	108	0.0	1.2	-1.2	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7	
17	220 kV	MEHGAON-AURAIYA	1	116	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	74	13	1.3	0.0	1.3	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	71.4	249.1	-177.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	794	0	13.8	0.0	13.8	
2	HVDC	RAIGARH-PUGALUR	2	1926	0	38.3	0.0	38.3	
3	765 kV	SOLAPUR-RAICHUR	2	1541	1283	4.8	0.0	4.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2035	0.0	20.1	-20.1	
5	400 kV	KOLHAPUR-KUDGI	2	1211	0	19.1	0.0	19.1	
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	64	0.9	0.0	0.9	
						WR-SR	76.9	20.1	56.8

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 MANGDECHHU HEP 4*180MW)	835	0	811	19.5
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	1043	1025	1030	24.7
	ER	132kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	299	0	273	6.6
	NER	132kV GELEPHU-SALAKATI	40	22	30	0.7
	NER	132kV MOTANGA-RANGIA	59	34	46	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-8	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-4	-0.1
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	136	12	36	0.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	0	-711	-17.1
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-119	-2.9