



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:13th 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 12.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-सितंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 12th 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: 13-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)	51480	46260	37648	22114	3089	160591
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1054	1054	923	474	61	3566
Hydro Gen (MU)	334	35	132	139	30	670
Wind Gen (MU)	16	110	213	-	-	339
Solar Gen (MU)*	48.38	27.92	88.70	4.63	0.41	170
Energy Shortage (MU)	3.85	0.00	0.00	0.28	0.00	4.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51616	46323	43635	22247	3143	160701
Time Of Maximum Demand Met (From NLDC SCADA)	19:44	19:06	09:28	00:00	19:07	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	0.029	0.00	0.00	2.95	2.95	78.08	18.97

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	6525	0	147.4	110.0	-5.7	128	0.00
	Haryana	6019	0	128.0	96.9	-0.8	184	0.00
	Rajasthan	8492	0	185.4	59.4	-0.6	551	0.00
	Delhi	4009	0	85.2	71.5	-2.1	55	0.00
	UP	21344	0	397.4	167.9	-0.7	373	0.00
	Uttarakhand	1756	0	38.6	8.1	-0.1	87	0.00
	HP	1273	22	27.5	-10.2	-1.5	104	0.40
	J&K(UT) & Ladakh(UT)	2256	200	39.9	16.6	-0.4	227	3.45
	Chandigarh	219	0	4.5	5.7	-1.2	0	0.00
	WR	Chhattisgarh	3892	0	91.2	41.0	0.2	381
Gujarat		12483	0	285.8	162.3	0.8	1093	0.00
MP		9567	0	210.2	142.0	2.1	608	0.00
Maharashtra		18721	0	414.5	134.8	2.9	849	0.00
Goa		472	0	10.0	9.0	0.4	45	0.00
DD		302	0	7.0	6.8	0.2	25	0.00
DNH		814	0	19.3	19.2	0.1	64	0.00
AMNSIL		726	0	16.3	4.8	-0.9	163	0.00
Andhra Pradesh		9035	0	187.6	54.0	0.2	1001	0.00
Telangana		9690	0	192.8	53.6	-0.3	911	0.00
SR	Karnataka	8838	0	166.4	22.2	-0.8	1262	0.00
	Kerala	3114	0	65.1	43.3	-1.5	316	0.00
	Tamil Nadu	13400	0	302.7	126.3	-2.4	1286	0.00
	Puducherry	385	0	8.4	8.8	-0.4	42	0.00
	ER	Bihar	6018	0	122.0	119.6	-2.9	391
DVC		3139	0	65.7	-23.9	-0.5	209	0.00
Jharkhand		1417	0	28.0	24.7	-3.5	124	0.00
Odisha		4495	0	94.8	29.0	-1.6	451	0.00
West Bengal		8091	0	162.7	59.4	-1.0	497	0.00
Sikkim		70	0	1.1	0.4	0.7	51	0.00
NER	Arunachal Pradesh	142	0	2.4	2.3	-0.1	25	0.00
	Assam	2068	0	40.6	34.6	0.2	123	0.00
	Manipur	194	0	2.7	2.8	-0.1	29	0.00
	Meghalaya	290	0	5.4	2.5	-0.1	35	0.00
	Mizoram	97	0	1.5	1.1	0.0	28	0.00
	Nagaland	137	0	2.5	2.3	-0.1	10	0.00
	Tripura	297	0	5.4	5.2	-0.2	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.9	0.3	-20.5
Day Peak (MW)	2338.0	4.5	-883.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	152.8	-63.8	1.7	-89.0	-1.6	0.0
Actual(MU)	118.0	-34.9	-5.5	-81.6	-1.7	-5.6
O/D/U/D(MU)	-34.8	29.0	-7.1	7.5	-0.2	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6598	20375	7722	1715	409	36818	42
State Sector	10225	23747	11995	4425	11	50403	58
Total	16823	44122	19717	6140	420	87221	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	461	868	360	433	10	2132	58
Lignite	27	13	41	0	0	75	2
Hydro	334	35	132	139	30	670	18
Nuclear	27	28	65	0	0	120	3
Gas, Naptha & Diesel	26	24	10	0	27	88	2
RES (Wind, Solar, Biomass & Others)	83	138	334	5	0	561	15
Total	953	1106	942	577	68	3645	100
Share of RES in total generation (%)	8.75	12.48	35.48	0.80	0.61	15.38	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.55	18.18	56.40	24.89	45.17	37.04	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.057

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: 13-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	1200	0.0	27.7	-27.7	
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	645	58	8.1	0.0	8.1	
4	765 kV	SASARAM-FATEHPUR	1	279	0	4.5	0.0	4.5	
5	765 kV	GAYA-BALIA	1	68	342	0.0	2.9	-2.9	
6	400 kV	PUSAULI-VARANASI	1	0	272	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	88	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	446	0.0	6.9	-6.9	
9	400 kV	PATNA-BALIA	4	15	394	0.0	3.6	-3.6	
10	400 kV	BIHARSHARIFF-BALIA	2	145	11	1.8	0.0	1.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	250	0.0	3.5	-3.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	254	0	3.3	0.0	3.3	
13	220 kV	PUSAULI-SAHUPURI	1	16	74	0.0	0.8	-0.8	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	26	0.0	0.3	-0.3	
						ER-NR	18.2	57.3	-39.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	411	811	0.0	1.8	-1.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1083	0	17.5	0.0	17.5	
3	765 kV	JHARSUGUDA-DURG	2	61	183	0.0	1.7	-1.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	351	0.0	5.2	-5.2	
5	400 kV	RANCHI-SIPAT	2	226	0	3.6	0.0	3.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	137	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	98	31	0.8	0.0	0.8	
						ER-WR	21.9	10.9	11.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	187	399	0.0	5.7	-5.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1653	0.0	34.7	-34.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2362	0.0	40.5	-40.5	
4	400 kV	TALCHER-I/C	2	737	655	0.0	2.0	-2.0	
5	220 kV	BALIMEL A-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	80.9	-80.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	316	0.0	4.3	-4.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	78	374	0.0	3.2	-3.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	119	0.0	1.8	-1.8	
						ER-NER	0.0	9.2	-9.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	803	0.0	12.8	-12.8	
						NER-NR	0.0	12.8	-12.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3022	0.0	42.9	-42.9	
2	HVDC	VINDHYACHAL B/B	-	231	274	5.2	1.4	3.8	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	442	0.0	10.9	-10.9	
4	765 kV	GWALIOR-AGRA	2	331	903	0.4	10.5	-10.1	
5	765 kV	GWALIOR-PHAGI	2	103	1522	0.1	18.9	-18.8	
6	765 kV	JABALPUR-ORAI	2	0	576	0.0	12.7	-12.7	
7	765 kV	GWALIOR-ORAI	1	756	0	12.5	0.0	12.5	
8	765 kV	SAINA-ORAI	1	0	731	0.0	12.8	-12.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1130	0	17.6	0.0	17.6	
10	765 kV	VINDHYACHAL-VARANASI	0	0	2748	0.0	40.6	-40.6	
11	400 kV	ZERDA-KANKROLI	1	271	0	5.1	0.0	5.1	
12	400 kV	ZERDA-BHIMMAL	1	594	0	9.7	0.0	9.7	
13	400 kV	VINDHYACHAL-RIHAND	1	968	0	19.7	0.0	19.7	
14	400 kV	RAPP-SHILJALPUR	2	449	163	3.6	0.5	3.0	
15	220 kV	BHANPURA-RANPUR	1	0	70	0.0	0.9	-0.9	
16	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3	
17	220 kV	MEHGAON-AURAIYA	1	124	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	84	0	1.8	0.0	1.8	
19	132 kV	GWALIOR-SAWAL 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	76.6	152.5	-75.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	994	0	18.1	0.0	18.1	
2	HVDC	RAIGARH-PUGALUR	2	2151	0	31.4	0.0	31.4	
3	765 kV	SOLAPUR-RAICHUR	2	1398	984	9.9	2.6	7.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2101	0.0	27.0	-27.0	
5	400 kV	KOLHAPUR-KUDGI	2	1386	0	21.7	0.0	21.7	
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	73	1.3	0.0	1.3	
						WR-SR	82.3	29.6	52.7

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)	883	0	768	18.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1045	1015	1032	24.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	313	0	285	6.8
	NER	132kV GELEPHU-SALAKATI	34	22	28	0.7
	NER	132kV MOTANGA-RANGIA	64	41	50	1.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-12	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-40	0	-9	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	120	-25	33	0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-721	-725	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-130	-3.1