



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: 02nd 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 01.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st September 2021, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 02-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)	59172	49545	40769	23581	2971	176038
Peak Shortage (MW)	200	0	0	477	0	677
Energy Met (MU)	1326	1137	929	500	57	3949
Hydro Gen (MU)	318	37	116	146	34	650
Wind Gen (MU)	12	47	106	-	-	166
Solar Gen (MU)*	52.80	29.38	96.62	4.93	0.16	184
Energy Shortage (MU)	3.45	0.39	0.00	5.41	0.00	9.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59693	50051	43816	23658	3052	177018
Time Of Maximum Demand Met (From NLDC SCADA)	19:32	19:24	09:32	19:54	18:28	19:29

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	0.020	0.00	0.00	1.32	1.32	81.30	17.38

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	12152	0	277.8	162.4	-1.4	110	0.00
	Haryana	8244	0	179.8	139.7	-0.3	220	0.00
	Rajasthan	11470	0	245.3	104.4	1.1	571	0.00
	Delhi	4288	0	92.2	75.6	-2.2	189	0.00
	UP	20508	0	401.3	159.7	-1.5	176	0.00
	Uttarakhand	1903	0	42.4	15.2	0.5	160	0.00
	HP	1474	0	32.7	-1.1	-0.4	60	0.00
	J&K(UT) & Ladakh(UT)	2551	250	48.4	24.2	0.6	269	3.45
WR	Chandigarh	294	0	6.1	6.2	-0.1	18	0.00
	Chhattisgarh	4687	0	110.1	58.9	-0.3	192	0.00
	Gujarat	13761	0	304.7	176.4	3.3	1101	0.39
	MP	9886	0	223.1	143.5	2.1	987	0.00
	Maharashtra	20116	0	443.2	142.0	-4.1	944	0.00
	Goa	575	0	12.0	11.4	0.1	66	0.00
	DD	325	0	7.3	7.1	0.2	28	0.00
	DNH	820	0	18.6	19.3	-0.7	47	0.00
SR	AMNSIL	797	0	17.5	8.2	-0.1	251	0.00
	Andhra Pradesh	8480	0	181.5	78.6	-0.2	475	0.00
	Telangana	7847	0	161.0	27.8	-2.2	363	0.00
	Karnataka	9705	0	185.4	12.3	-1.0	1007	0.00
	Kerala	3488	0	72.5	46.7	-0.6	302	0.00
	Tamil Nadu	14517	0	320.5	157.4	-2.2	368	0.00
	Puducherry	388	0	8.3	8.4	-0.1	30	0.00
	ER	Bihar	6293	0	123.1	113.8	0.7	397
DVC		3066	0	65.7	-37.0	-0.7	291	0.19
Jharkhand		1493	0	30.6	25.1	-0.6	226	2.68
Odisha		5166	0	105.8	26.4	0.3	418	0.00
West Bengal		8552	0	173.8	52.7	-0.3	557	0.00
Sikkim		84	0	1.4	1.3	0.1	55	0.00
NER	Arunachal Pradesh	127	0	2.4	2.7	-0.3	13	0.00
	Assam	1942	0	36.5	30.3	0.0	185	0.00
	Manipur	208	0	2.7	2.7	0.0	26	0.00
	Meghalaya	324	0	5.8	1.0	-0.3	58	0.00
	Mizoram	101	0	1.6	1.2	-0.1	11	0.00
	Nagaland	127	0	2.5	2.2	-0.2	19	0.00
	Tripura	292	0	5.1	5.0	-0.5	32	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.2	0.6	-20.3
Day Peak (MW)	2243.0	159.2	-863.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	288.5	-111.1	-29.5	-140.7	-7.2	0.0
Actual(MU)	263.4	-97.5	-22.7	-138.3	-9.3	-4.3
O/D/U/D(MU)	-25.1	13.7	6.8	2.4	-2.2	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5294	16458	8172	2115	444	32482	46
State Sector	8290	18996	6465	3815	11	37577	54
Total	13584	35454	14637	5930	455	70059	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	598	1063	521	515	12	2709	67
Lignite	22	12	39	0	0	74	2
Hydro	318	37	116	145	34	650	16
Nuclear	26	20	41	0	0	88	2
Gas, Naptha & Diesel	37	34	12	0	26	108	3
RES (Wind, Solar, Biomass & Others)	82	77	236	5	0	400	10
Total	1082	1242	966	666	71	4027	100

Share of RES in total generation (%)	7.53	6.19	24.48	0.74	0.22	9.93
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	39.34	10.75	40.76	22.60	47.82	28.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.051

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: 02-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	33.1	-33.1
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	115	252	0.0	1.3	-1.3
4	765 kV	SASARAM-FATEHPUR	1	114	98	0.0	0.1	-0.1
5	765 kV	GAYA-BALIA	1	0	533	0.0	8.5	-8.5
6	400 kV	PUSAULLY-VARANASI	1	0	165	0.0	3.4	-3.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	126	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	624	0.0	10.7	-10.7
9	400 kV	PATNA-BALIA	4	0	899	0.0	17.0	-17.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	247	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	341	0.0	6.0	-6.0
12	400 kV	BIHARSHARIFF-VARANASI	2	71	105	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	1	45	93	0.0	1.0	-1.0
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	93.8	-93.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	882	0.0	13.7	-13.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1201	0	18.2	0.0	18.2
3	765 kV	JHARSUGUDA-DURG	2	46	263	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	496	0.0	8.1	-8.1
5	400 kV	RANCHI-SIPAT	2	227	19	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	169	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	43	51	0.0	0.2	-0.2
ER-WR						21.3	28.2	-6.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	292	0	7.3	0.0	7.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1978	0.0	42.8	-42.8
3	765 kV	ANGUL-SIRSAKULAM	2	0	2628	0.0	43.3	-43.3
4	400 kV	TALCHER-IC	2	296	274	0.0	1.5	-1.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						7.3	86.1	-78.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	61	312	0.0	3.4	-3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	198	259	0.0	0.3	-0.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	111	0.0	1.2	-1.2
ER-NER						0.0	5.0	-5.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	652	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	2514	0.0	28.1	-28.1
2	HVDC	VINDHYACHAL B/B	-	23	3	0.6	0.0	0.6
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	601	0.0	0.9	-0.9
4	765 kV	GWALIOR-AGRA	2	0	1750	0.0	31.1	-31.1
5	765 kV	GWALIOR-PHAGI	2	0	2157	0.0	42.3	-42.3
6	765 kV	JABALPUR-ORAI	2	0	1032	0.0	37.5	-37.5
7	765 kV	GWALIOR-ORAI	1	745	0	14.6	0.0	14.6
8	765 kV	SATNA-ORAI	1	0	913	0.0	20.2	-20.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1149	0	16.8	0.0	16.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2944	0.0	54.2	-54.2
11	400 kV	ZERDA-KANKROLI	1	262	0	3.2	0.0	3.2
12	400 kV	ZERDA-BHINMAL	1	401	278	3.0	0.0	3.0
13	400 kV	VINDHYACHAL-RIHAND	1	972	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUALPUR	2	0	503	0.0	8.3	-8.3
15	220 kV	BHANPURA-RANPUR	1	0	84	0.0	1.3	-1.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	122	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	83	0	1.8	0.0	1.8
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						62.7	224.6	-161.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	16.7	0.0	16.7
2	HVDC	RAIGARH-PUGALUR	2	972	0	20.9	0.0	20.9
3	765 kV	SOLAPUR-RAICHUR	2	1485	1068	9.6	0.0	9.6
4	765 kV	WARDHA-NIZAMABAD	2	130	1810	0.0	14.1	-14.1
5	400 kV	KOLHAPUR-KUDGI	2	1379	0	24.0	0.0	24.0
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	1	81	1.0	0.0	1.0
WR-SR						72.2	14.1	58.1

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)	840	0	815	19.6
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1038	0	991	23.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	281	0	259	6.2
	NER	132kV GELEPHU-SALAKATI	31	22	27	0.6
	NER	132kV MOTANGA-RANGIA	53	19	42	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-7	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	-10	-1	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	242	0	36	0.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-727	0	-724	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-122	-2.9