



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: 05th 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 04.09.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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: 05-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)	59098	50498	39045	24689	3172	176502
Peak Shortage (MW)	200	0	0	128	2	330
Energy Met (MU)	1266	1165	880	529	61	3900
Hydro Gen (MU)	302	31	101	144	31	609
Wind Gen (MU)	5	86	141	-	-	232
Solar Gen (MU)*	51.15	34.43	79.74	4.79	0.23	170
Energy Shortage (MU)	3.45	0.90	0.00	1.10	0.07	5.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59434	50728	41852	25071	3192	176812
Time Of Maximum Demand Met (From NLDC SCADA)	19:48	19:21	09:17	22:22	18:37	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	0.023	0.00	0.00	0.59	0.59	78.12	21.29

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	10702	0	235.9	155.8	-1.0	61	0.00
	Haryana	7762	0	160.8	122.8	0.9	429	0.00
	Rajasthan	10617	0	234.8	83.6	0.8	394	0.00
	Delhi	4493	0	97.9	88.1	-1.6	81	0.00
	UP	21328	0	408.8	173.9	-2.7	531	0.00
	Uttarakhand	1915	0	42.5	13.9	0.3	96	0.00
	HP	1502	0	32.8	0.4	0.1	91	0.00
	J&K(UT) & Ladakh(UT)	2421	200	47.4	24.5	-0.7	239	3.45
	Chandigarh	263	0	5.6	5.7	-0.2	19	0.00
WR	Chhattisgarh	4626	0	107.8	56.3	-0.5	431	0.00
	Gujarat	14643	0	324.4	168.3	1.9	885	0.90
	MP	9907	0	220.3	146.5	2.3	911	0.00
	Maharashtra	20906	0	455.0	156.6	-2.3	544	0.00
	Goa	572	0	12.1	11.4	0.1	30	0.00
	DD	338	0	7.6	7.3	0.3	45	0.00
	DNH	836	0	19.6	19.4	0.2	53	0.00
	AMNSIL	789	0	18.0	5.1	-0.7	166	0.00
	SR	Andhra Pradesh	8204	0	178.6	61.9	-0.2	541
Telangana		8306	0	165.6	31.6	-1.9	370	0.00
Karnataka		9208	0	169.3	19.6	-1.5	696	0.00
Kerala		3375	0	69.3	46.8	-0.6	169	0.00
Tamil Nadu		13088	0	289.0	131.3	-1.2	525	0.00
Puducherry		370	0	7.8	8.1	-0.3	25	0.00
ER		Bihar	6303	0	125.9	117.2	-0.7	458
	DVC	3127	0	67.8	-38.2	0.1	268	0.00
	Jharkhand	1534	128	30.3	25.0	-2.7	161	0.31
	Odisha	5955	0	119.2	48.4	-0.3	659	0.00
	West Bengal	9004	0	184.4	58.7	-0.3	340	0.00
	Sikkim	91	0	1.4	1.5	-0.1	24	0.00
	NER	Arunachal Pradesh	140	0	2.5	2.2	0.3	49
Assam		2078	0	40.0	32.5	0.4	107	0.00
Manipur		210	20	2.7	2.6	0.1	50	0.03
Meghalaya		324	0	5.8	2.4	0.0	40	0.00
Mizoram		97	0	1.5	1.2	0.0	16	0.00
Nagaland		142	0	2.6	2.2	-0.1	27	0.00
Tripura		307	2	5.6	5.1	0.1	41	0.04

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.0	0.5	-20.6
Day Peak (MW)	2255.0	124.8	-884.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	273.4	-104.2	-44.7	-121.1	-3.4	0.0
Actual(MU)	255.9	-111.8	-30.0	-113.6	-3.2	-2.7
OD/UD(MU)	-17.5	-7.6	14.7	7.5	0.3	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4722	16455	8442	1915	444	31978	42
State Sector	9140	21016	9545	4025	11	43737	58
Total	13862	37471	17987	5940	455	75715	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	569	1042	476	528	11	2626	66
Lignite	25	12	39	0	0	76	2
Hydro	302	31	101	144	31	609	15
Nuclear	26	32	61	0	0	120	3
Gas, Naptha & Diesel	32	41	11	0	28	111	3
RES (Wind, Solar, Biomass & Others)	73	120	254	5	0	451	11
Total	1027	1278	942	677	70	3993	100

Share of RES in total generation (%)	7.06	9.42	26.91	0.71	0.33	11.31
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.01	14.37	44.15	22.04	44.29	29.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.049

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: 05-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	26.4	-26.4	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	227	299	0.5	0.0	0.5	
4	765 kV	SASARAM-FATEHPUR	1	99	152	0.0	0.0	0.0	
5	765 kV	GAYA-BALIA	1	0	349	0.0	3.5	-3.5	
6	400 kV	PUSAULI-VARANASI	1	0	200	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	119	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	593	0.0	11.2	-11.2	
9	400 kV	PATNA-BALIA	4	0	935	0.0	17.0	-17.0	
10	400 kV	BIHARSHARIFF-BALIA	2	0	289	0.0	3.1	-3.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	330	0.0	6.1	-6.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	135	85	0.5	0.0	0.5	
13	220 kV	PUSAULI-SAHUPURI	1	52	100	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	0.7	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	1.7	85.9	-84.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	135	622	0.0	6.1	-6.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1230	0	19.1	0.0	19.1	
3	765 kV	JHARSUGUDA-DURG	2	85	199	0.0	1.0	-1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	36	486	0.0	6.6	-6.6	
5	400 kV	RANCHI-SIPAT	2	260	72	3.5	0.0	3.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	180	0.0	3.3	-3.3	
7	220 kV	BUDHIPADAR-KORBA	2	71	30	0.4	0.0	0.4	
						ER-WR	22.9	17.0	6.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	295	0	7.2	0.0	7.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1628	0.0	32.7	-32.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2720	0.0	46.7	-46.7	
4	400 kV	TALCHER-UC	2	847	0	9.6	0.0	9.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	7.2	79.4	-72.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	8	266	0.0	4.3	-4.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	69	327	0.0	3.7	-3.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	107	0.0	1.6	-1.6	
						ER-NER	0.0	9.6	-9.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	653	0.0	14.9	-14.9	
						NER-NR	0.0	14.9	-14.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2523	0.0	34.0	-34.0	
2	HVDC	VINDHYACHAL B/B	-	246	0	5.0	0.0	5.0	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	299	0.0	7.3	-7.3	
4	765 kV	GWALIOR-AGRA	2	0	1862	0.0	29.7	-29.7	
5	765 kV	GWALIOR-PHAGI	2	0	1887	0.0	34.5	-34.5	
6	765 kV	JABALPUR-ORAI	2	0	963	0.0	36.5	-36.5	
7	765 kV	GWALIOR-ORAI	1	743	0	13.0	0.0	13.0	
8	765 kV	SATNA-ORAI	1	0	926	0.0	19.5	-19.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	1072	0	12.0	0.0	12.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3009	0.0	55.8	-55.8	
11	400 kV	ZERDA-KANKROLI	1	217	0	2.9	0.0	2.9	
12	400 kV	ZERDA-BHINMAL	1	289	138	3.2	0.0	3.2	
13	400 kV	VINDHYACHAL-RIHAND	1	975	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHUJALPUR	2	0	400	0.0	5.7	-5.7	
15	220 kV	BHANPURA-RANPUR	1	11	101	0.0	1.1	-1.1	
16	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.2	
17	220 kV	MEHGAON-AURAIYA	1	145	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	104	0	2.0	0.0	2.0	
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	61.1	224.5	-163.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	990	0	18.1	0.0	18.1	
2	HVDC	RAIGARH-PUGALUR	2	1925	0	39.6	0.0	39.6	
3	765 kV	SOLAPUR-RAICHUR	2	1656	977	0.0	7.0	-7.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	1763	0.0	18.5	-18.5	
5	400 kV	KOLHAPUR-KUDGI	2	1490	0	24.6	0.0	24.6	
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	NELDEM-AMBEWADI	1	1	84	1.5	0.0	1.5	
						WR-SR	83.7	25.4	58.2

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)	826	0	790	19.0
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1042	1019	1027	24.6
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	295	0	271	6.5
	NER	132KV GELEPHU-SALAKATI	33	23	29	0.7
	NER	132KV MOTANGA-RANGIA	58	36	49	1.2
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-59	0	-6	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-4	-0.1
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	76	-20	33	0.8
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-731	-722	-726	-17.4
BANGLADESH	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-153	0	-132	-3.2