



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: 7th 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 06.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 6th 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: 07-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)	62861	49520	38301	23177	2821	176680
Peak Shortage (MW)	730	577	0	187	0	1494
Energy Met (MU)	1391	1164	828	515	56	3954
Hydro Gen (MU)	303	34	97	141	30	604
Wind Gen (MU)	12	38	188	-	-	237
Solar Gen (MU)*	51.60	32.36	65.74	4.24	0.23	154
Energy Shortage (MU)	4.22	4.80	0.00	1.73	0.00	10.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64096	51198	39787	23871	2867	176701
Time Of Maximum Demand Met (From NLDC SCADA)	20:39	11:37	09:28	00:01	18:51	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	0.021	0.00	0.28	1.98	2.26	85.15	12.59

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	11531	0	256.3	157.6	-1.1	70	0.00
	Haryana	8895	0	185.8	140.0	1.6	220	0.00
	Rajasthan	11394	0	251.3	95.9	3.5	552	0.00
	Delhi	5496	0	111.9	101.1	-0.9	143	0.00
	UP	22990	0	451.9	202.3	-0.3	453	0.00
	Uttarakhand	2018	0	43.9	15.1	1.6	148	0.77
	HP	1566	8	33.8	0.8	0.1	108	0.00
	J&K(UT) & Ladakh(UT)	2515	200	49.5	25.3	0.6	239	3.45
WR	Chandigarh	331	0	6.7	6.2	0.5	47	0.00
	Chhattisgarh	4323	0	99.5	55.3	-1.4	218	0.00
	Gujarat	15421	73	335.2	206.0	0.1	525	4.80
	MP	10083	0	227.7	152.6	1.4	653	0.00
	Maharashtra	20854	0	445.8	155.0	-3.6	508	0.00
	Goa	541	0	11.3	10.8	0.1	43	0.00
	DD	336	0	7.4	7.0	0.4	85	0.00
	DNH	862	0	19.3	19.4	-0.1	74	0.00
SR	AMNSIL	797	0	17.6	4.8	-0.6	185	0.00
	Andhra Pradesh	7668	0	165.7	45.8	-1.4	501	0.00
	Telangana	7589	0	147.0	30.1	-1.8	313	0.00
	Karnataka	8467	0	159.7	18.4	-2.0	560	0.00
	Kerala	3404	0	67.7	42.2	0.5	285	0.00
	Tamil Nadu	13510	0	280.1	119.3	-3.3	365	0.00
	Puducherry	396	0	8.1	8.4	-0.3	164	0.00
	ER	Bihar	6384	0	126.6	117.5	-0.8	388
DVC		3093	0	67.4	-43.4	-0.3	240	0.00
Jharkhand		1458	0	29.5	25.0	-3.4	150	0.47
Odisha		5496	0	115.5	39.4	-1.1	509	0.00
West Bengal		8714	0	174.9	47.7	-1.0	448	0.00
Sikkim		94	0	1.4	1.4	0.0	31	0.00
NER	Arunachal Pradesh	115	0	2.1	2.2	-0.1	49	0.00
	Assam	1903	0	36.5	30.5	0.0	99	0.00
	Manipur	197	0	2.8	2.8	0.0	39	0.00
	Meghalaya	307	0	5.7	2.6	-0.2	48	0.00
	Mizoram	105	0	1.6	1.2	0.0	48	0.00
	Nagaland	146	0	2.8	2.3	0.0	31	0.00
	Tripura	285	0	4.6	4.2	-0.2	39	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.7	-0.2	-20.4
Day Peak (MW)	2364.0	-168.7	-907.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	333.7	-88.2	-89.3	-149.2	-7.0	0.0
Actual(MU)	332.8	-74.2	-109.8	-142.9	-9.6	-3.6
OD/UD(MU)	-0.8	14.0	-20.5	6.3	-2.6	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4848	16534	7572	2575	409	31937	41
State Sector	10960	20854	10128	3175	11	45128	59
Total	15808	37387	17700	5750	420	77065	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	607	1072	448	548	13	2688	67
Lignite	25	10	44	0	0	79	2
Hydro	303	34	97	141	30	604	15
Nuclear	26	32	65	0	0	123	3
Gas, Naptha & Diesel	33	38	11	0	27	109	3
RES (Wind, Solar, Biomass & Others)	79	71	285	4	0	439	11
Total	1073	1257	949	693	70	4041	100

Share of RES in total generation (%)	7.40	5.62	30.01	0.61	0.33	10.87
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.03	10.89	47.04	20.91	42.50	28.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.071

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: 07-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	1402	0.0	31.4	-31.4	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	54	470	0.0	3.6	-3.6	
4	765 kV	SASARAM-FATEHPUR	1	19	279	0.0	2.6	-2.6	
5	765 kV	GAYA-BALIA	1	0	650	0.0	10.9	-10.9	
6	400 kV	PUSAULI-VARANASI	1	0	150	0.0	3.1	-3.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	153	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	767	0.0	14.0	-14.0	
9	400 kV	PATNA-BALIA	4	0	1112	0.0	21.4	-21.4	
10	400 kV	BIHARSHARIF-BALIA	2	0	411	0.0	6.6	-6.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	403	0.0	7.5	-7.5	
12	400 kV	BIHARSHARIF-VARANASI	2	10	238	0.0	1.9	-1.9	
13	220 kV	PUSAULI-SAHUPURI	1	0	116	0.0	1.9	-1.9	
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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	113.9	-113.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1548	0.0	21.6	-21.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1181	0	16.9	0.0	16.9	
3	765 kV	JHARSUGUDA-DURG	2	0	215	0.0	2.4	-2.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	470	0.0	6.7	-6.7	
5	400 kV	RANCHI-SIPAT	2	257	59	2.4	0.0	2.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	177	0.0	2.9	-2.9	
7	220 kV	BUDHIPADAR-KORBA	2	27	73	0.0	0.3	-0.3	
						ER-WR	19.3	33.9	-14.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	298	0	7.2	0.0	7.2	
2	HVDC	TALCHER-OLAR BIPOLE	2	0	1637	0.0	33.6	-33.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2233	0.0	34.2	-34.2	
4	400 kV	TALCHER-IC	2	1108	0	9.8	0.0	9.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	7.2	67.8	-60.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	97	200	0.0	2.2	-2.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	261	146	0.9	0.0	0.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	19	90	0.0	1.0	-1.0	
						ER-NER	0.9	3.2	-2.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	552	0.0	13.2	-13.2	
						NER-NR	0.0	13.2	-13.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3533	0.0	59.2	-59.2	
2	HVDC	VINDHYACHAL B/B	-	0	302	0.0	2.0	-2.0	
3	HVDC	MUNDRU-MOHINDERGARH	2	0	298	0.0	7.2	-7.2	
4	765 kV	GWALIOR-AGRA	2	0	2017	0.0	34.5	-34.5	
5	765 kV	GWALIOR-PHAGI	2	0	2271	0.0	44.7	-44.7	
6	765 kV	JABALPUR-ORAI	2	0	1214	0.0	44.1	-44.1	
7	765 kV	GWALIOR-ORAI	1	781	0	15.1	0.0	15.1	
8	765 kV	SATNA-ORAI	1	0	991	0.0	21.3	-21.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	1332	0	19.6	0.0	19.6	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3188	0.0	58.5	-58.5	
11	400 kV	ZERDA-KANKROLI	1	276	0	4.1	0.0	4.1	
12	400 kV	ZERDA-BHINMAL	1	367	186	5.0	0.0	5.0	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	21.4	0.0	21.4	
14	400 kV	RAPP-SHUALPUR	2	0	580	0.0	8.9	-8.9	
15	220 kV	BHANPURA-RANPUR	1	0	81	0.0	1.3	-1.3	
16	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.6	-0.6	
17	220 kV	MEHGAON-AURAIYA	1	139	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	97	0	1.9	0.0	1.9	
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	68.1	282.3	-214.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	990	0	23.9	0.0	23.9	
2	HVDC	RAIGARH-PUGALUR	2	2151	0	49.9	0.0	49.9	
3	765 kV	SOLAPUR-RAICHUR	2	2185	274	25.8	0.0	25.8	
4	765 kV	WARDHA-NIZAMABAD	2	749	1357	0.0	5.7	-5.7	
5	400 kV	KOLHAPUR-KUDGI	2	1567	0	30.1	0.0	30.1	
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	0	77	1.4	0.0	1.4	
						WR-SR	131.1	5.7	125.5

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 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	844	0	790	19.0
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1105	0	1058	25.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	324	212	238	5.7
	NER	132kV GELEPHU-SALAKATI	41	19	26	0.6
	NER	132kV MOTANGA-RANGIA	51	0	41	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-64	0	-18	-0.4
	ER	NEPAL IMPORT (FROM BIHAR)	-98	-4	-16	-0.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-7	98	27	0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-771	-730	-733	-17.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-118	-2.8