



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:12th 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 11.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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: 12-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)	50610	47831	41392	23311	3155	166299
Peak Shortage (MW)	200	273	0	0	2	475
Energy Met (MU)	1107	1069	955	497	60	3686
Hydro Gen (MU)	326	34	114	145	33	653
Wind Gen (MU)	11	85	187	-	-	283
Solar Gen (MU)*	43.89	28.09	88.54	5.00	0.28	166
Energy Shortage (MU)	7.94	0.40	0.00	0.97	0.01	9.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52949	47923	44746	23345	3167	166651
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	19:16	09:14	19:58	18:53	19:18

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	0.51	2.94	3.45	75.42	21.13

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	7806	0	173.6	135.2	-6.9	132	0.00
	Haryana	6974	0	143.4	110.4	-1.7	256	0.00
	Rajasthan	8780	0	198.9	73.3	-5.5	516	0.00
	Delhi	4517	0	89.3	75.7	-1.7	222	0.00
	UP	19678	0	383.8	170.2	-2.0	635	4.49
	Uttarakhand	1927	0	42.1	13.8	-0.6	105	0.00
	HP	1429	0	30.6	-5.8	-1.8	51	0.00
	J&K(UT) & Ladakh(UT)	2212	200	40.3	17.5	-0.8	582	3.45
WR	Chandigarh	255	0	5.4	6.1	-0.7	4	0.00
	Chhattisgarh	3854	0	92.6	40.3	-0.6	184	0.00
	Gujarat	13360	0	297.5	191.6	-0.3	505	0.40
	MP	9648	0	207.7	137.4	-0.2	393	0.00
	Maharashtra	19422	0	416.9	130.5	-2.5	655	0.00
	Goa	449	0	10.1	8.8	0.7	45	0.00
	DD	332	0	7.1	6.9	0.2	29	0.00
	DNH	831	0	19.0	19.2	-0.2	41	0.00
SR	AMNSIL	795	0	17.8	4.6	-0.6	184	0.00
	Andhra Pradesh	8802	0	183.6	58.9	1.1	965	0.00
	Telangana	9424	0	186.0	65.4	-0.5	829	0.00
	Karnataka	9584	0	176.9	29.2	0.2	604	0.00
	Kerala	3530	0	72.7	48.8	-0.7	218	0.00
	Tamil Nadu	14824	0	326.7	140.9	-1.6	521	0.00
	Puducherry	428	0	8.7	8.8	-0.1	42	0.00
	ER	Bihar	6347	0	119.6	115.6	-1.7	427
DVC		3230	0	68.2	-31.9	0.1	423	0.00
Jharkhand		1478	0	28.8	24.6	-3.6	128	0.00
Odisha		5287	0	109.9	36.5	-1.6	387	0.00
West Bengal		8438	0	168.7	53.3	-1.2	463	0.00
Sikkim		90	0	1.4	0.2	1.2	87	0.00
NER	Arunachal Pradesh	141	0	2.4	2.4	-0.2	15	0.00
	Assam	2089	0	39.8	33.0	0.3	135	0.00
	Manipur	190	0	2.5	2.7	-0.2	25	0.00
	Meghalaya	318	0	5.5	1.8	0.0	56	0.00
	Mizoram	106	0	1.6	1.2	-0.1	22	0.00
	Nagaland	138	0	2.6	2.2	-0.1	24	0.00
	Tripura	300	2	5.1	4.7	-0.2	32	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.8	0.7	-19.8
Day Peak (MW)	2299.0	21.9	-873.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.2	-100.0	-3.3	-114.6	-5.3	0.0
Actual(MU)	181.3	-77.7	15.5	-114.3	-6.5	-1.7
O/D/U/D(MU)	-41.9	22.3	18.8	0.3	-1.2	-1.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6629	18305	7722	1715	409	34780	42
State Sector	9430	22719	10985	3925	11	47070	58
Total	16059	41024	18707	5640	420	81850	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	467	959	412	486	11	2336	62
Lignite	23	12	43	0	0	78	2
Hydro	326	34	114	145	33	653	17
Nuclear	27	28	66	0	0	120	3
Gas, Naptha & Diesel	30	25	12	0	28	94	2
RES (Wind, Solar, Biomass & Others)	73	113	308	5	0	500	13
Total	946	1171	955	637	71	3780	100

Share of RES in total generation (%)	7.76	9.65	32.26	0.79	0.39	13.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.04	14.98	51.10	23.60	46.10	33.66

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.062

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Date of Reporting: 12-Sep-2021		
							Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1200	0.0	28.8	-28.8	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	313	177	2.8	0.0	2.8	
4	765 kV	SASARAM-FATEHPUR	1	209	25	2.2	0.0	2.2	
5	765 kV	GAYA-BALIA	1	0	534	0.0	6.6	-6.6	
6	400 kV	PUSAULI-VARANASI	1	0	180	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	132	0.0	2.2	-2.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	720	0.0	10.9	-10.9	
9	400 kV	PATNA-BALIA	4	0	910	0.0	11.2	-11.2	
10	400 kV	BIHARSHARIF-BALIA	2	62	220	0.0	1.7	-1.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	377	0.0	6.0	-6.0	
12	400 kV	BIHARSHARIF-VARANASI	2	151	119	0.8	0.0	0.8	
13	220 kV	PUSAULI-SAHUPURI	1	14	107	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	0.5	0.0	0.5	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	24	0.0	0.1	-0.1	
						ER-NR	6.3	78.8	-72.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	558	666	0.0	1.6	-1.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1105	0	17.5	0.0	17.5	
3	765 kV	JHARSUGUDA-DURG	2	55	173	0.0	1.7	-1.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	434	0.0	6.0	-6.0	
5	400 kV	RANCHI-SIPAT	2	208	53	3.2	0.0	3.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	90	47	0.5	0.0	0.5	
						ER-WR	21.1	11.5	9.6
Import/Export of ER (With SR)									
1	HVDC	JEVPORE-GAZIWAKA B/B	2	249	28	4.5	0.0	4.5	
2	HVDC	TALCHER-OLAR BIPOLE	2	0	1784	0.0	34.8	-34.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2957	0.0	51.7	-51.7	
4	400 kV	TALCHER-IC	2	561	350	2.9	0.0	2.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	4.5	86.5	-82.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	9	371	0.0	4.8	-4.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	104	438	0.0	4.5	-4.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	133	0.0	2.2	-2.2	
						ER-NER	0.0	11.4	-11.4
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	1507	0.0	23.8	-23.8	
2	HVDC	VINDHYACHAL B/B	-	251	0	5.9	0.0	5.9	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	443	0.0	10.9	-10.9	
4	765 kV	GWALIOR-AGRA	2	0	1425	0.0	19.2	-19.2	
5	765 kV	GWALIOR-PHAGI	2	0	1789	0.0	31.5	-31.5	
6	765 kV	JABALPUR-ORAI	2	0	846	0.0	23.4	-23.4	
7	765 kV	GWALIOR-ORAI	1	827	0	15.3	0.0	15.3	
8	765 kV	SATNA-ORAI	1	0	872	0.0	16.2	-16.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1304	0	16.5	0.0	16.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3138	0.0	58.0	-58.0	
11	400 kV	ZERDA-KANKROLI	1	354	0	6.0	0.0	6.0	
12	400 kV	ZERDA-BHINMAL	1	638	0	9.6	0.0	9.6	
13	400 kV	VINDHYACHAL-RIHAND	1	963	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHUJALPUR	2	256	334	1.4	2.5	-1.1	
15	220 kV	BHANPURA-RANPUR	1	8	76	0.0	0.7	-0.7	
16	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.3	0.0	
17	220 kV	MEHGAON-AURAIYA	1	111	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.5	0.0	1.5	
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	12.4	0.0	12.4	
						WR-NR	91.4	186.5	-95.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	794	0	17.3	0.0	17.3	
2	HVDC	RAIGARH-PUGALUR	2	1460	0	30.5	0.0	30.5	
3	765 kV	SOLAPUR-RAICHUR	2	625	1668	0.0	5.8	-5.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2716	0.0	33.8	-33.8	
5	400 kV	KOLHAPUR-KUDGI	2	1193	0	17.7	0.0	17.7	
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	90	1.6	0.0	1.6	
						WR-SR	67.1	39.6	27.5

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)	833	826	833	20.6
	ER	400kV TALA-BINAGURI 1&2 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1036	1021	1029	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	330	275	276	6.6
	NER	132kV GELEPHU-SALAKATI	33	22	29	0.7
	NER	132kV MOTANGA-RANGIA	66	35	49	1.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-48	0	-6	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	80	13	40	1.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-721	-709	-711	-17.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-152	0	-113	-2.7