



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: 10th July 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, लापालंग, 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 09.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-जुलाई-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 09th July 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: 10-Jul-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)	66807	51443	38881	23717	3004	183852
Peak Shortage (MW)	1193	0	0	0	6	1199
Energy Met (MU)	1594	1236	929	492	58	4310
Hydro Gen (MU)	360	33	90	139	31	653
Wind Gen (MU)	27	102	115	-	-	244
Solar Gen (MU)*	54.86	29.45	73.48	4.49	0.23	163
Energy Shortage (MU)	14.35	0.00	0.00	0.00	0.06	14.41
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72518	53716	42486	24215	3001	187561
Time Of Maximum Demand Met (From NLDC SCADA)	23:36	14:53	10:42	21:07	19:18	11:58

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	0.02	4.02	4.04	75.82	20.14

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	12454	0	289.4	180.9	-1.0	195	10.20
	Haryana	11566	0	257.5	201.2	0.9	279	0.00
	Rajasthan	13672	0	298.5	89.6	3.0	500	0.00
	Delhi	6781	0	135.9	125.0	-3.2	305	0.00
	UP	24546	0	480.2	227.9	0.7	208	0.00
	Uttarakhand	2247	0	48.5	19.1	1.2	146	0.30
	HP	1490	20	30.2	-1.4	-3.5	44	0.40
	J&K(UT) & Ladakh(UT)	2325	250	46.4	21.3	-0.3	616	3.45
	Chandigarh	397	0	7.7	8.1	-0.4	25	0.00
WR	Chhattisgarh	3894	0	91.7	44.8	-0.4	312	0.00
	Gujarat	19007	0	410.4	157.8	3.0	495	0.00
	MP	9762	0	223.7	134.7	0.4	730	0.00
	Maharashtra	20620	0	453.6	162.9	-2.1	691	0.00
	Goa	538	0	11.8	10.9	0.3	29	0.00
	DD	328	0	7.5	7.2	0.3	35	0.00
	DNH	829	0	19.4	19.2	0.2	69	0.00
	AMNSIL	827	0	18.2	4.5	0.0	257	0.00
	SR	Andhra Pradesh	7791	0	170.3	52.3	-0.8	402
Telangana		9110	0	183.9	68.3	-0.9	711	0.00
Karnataka		9957	0	185.9	47.2	-0.8	585	0.00
Kerala		3321	0	73.0	49.8	0.0	337	0.00
Tamil Nadu		13973	0	307.8	132.6	-5.0	495	0.00
Puducherry		406	0	8.2	8.7	-0.5	27	0.00
ER		Bihar	6868	0	120.2	116.8	-0.2	434
	DVC	3170	0	65.3	-48.1	-0.2	246	0.00
	Jharkhand	1593	0	28.8	24.8	-2.6	156	0.00
	Odisha	5264	0	102.2	31.1	0.1	215	0.00
	West Bengal	8886	0	173.5	46.3	0.8	515	0.00
	Sikkim	117	0	1.8	1.5	0.3	39	0.00
	NER	Arumachal Pradesh	141	0	2.5	2.7	-0.4	60
Assam		1964	0	38.3	30.7	0.5	124	0.00
Manipur		195	2	2.7	2.6	0.1	30	0.01
Meghalaya		307	0	5.5	1.0	-0.3	27	0.00
Mizoram		107	1	1.7	1.6	0.0	14	0.01
Nagaland		132	2	2.5	2.5	0.0	15	0.01
Tripura		291	0	5.3	4.3	-0.1	47	0.02

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.0	-8.3	-22.0
Day Peak (MW)	2042.0	-507.4	-937.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	400.1	-261.3	-2.6	-130.9	-5.4	0.0
Actual(MU)	400.2	-245.9	-21.4	-136.4	-3.9	-7.4
OD/UD(MU)	0.0	15.4	-18.8	-5.6	1.4	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4072	13236	6912	810	588	25618	42
State Sector	7565	16767	6668	4155	11	35166	58
Total	11637	30003	13580	4965	600	60784	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	668	1257	562	520	10	3018	68
Lignite	27	12	32	0	0	71	2
Hydro	360	33	90	139	31	653	15
Nuclear	30	33	46	0	0	109	2
Gas, Naptha & Diesel	33	33	11	0	26	102	2
RES (Wind, Solar, Biomass & Others)	101	132	218	5	0	456	10
Total	1220	1499	959	664	68	4409	100

Share of RES in total generation (%)	8.27	8.79	22.75	0.68	0.34	10.33
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.26	13.15	36.96	21.61	46.75	27.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.092

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: 10-Jul-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	1504	0.0	36.7	-36.7	
2	HVDC	PUSAULI-B/B	-	0	248	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	849	0.0	14.0	-14.0	
4	765 kV	SASARAM-EATEHPUR	1	27	288	0.0	2.8	-2.8	
5	765 kV	GAYA-BALIA	1	0	717	0.0	11.7	-11.7	
6	400 kV	PUSAULI-VARANASI	1	0	217	0.0	4.7	-4.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	94	0.0	1.2	-1.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	610	0.0	10.6	-10.6	
9	400 kV	PATNA-BALIA	4	0	1148	0.0	21.7	-21.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	405	0.0	7.5	-7.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	372	0.0	6.7	-6.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	294	0.0	4.2	-4.2	
13	220 kV	PUSAULI-SAHUPURI	1	0	137	0.0	1.7	-1.7	
14	132 kV	SONENAGAR-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	0	0.0	0.1	-0.1	
						ER-NR	0.4	129.5	-129.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	569	665	0.0	1.6	-1.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1597	0	22.8	0.0	22.8	
3	765 kV	JHARSUGUDA-DURG	2	143	100	1.1	0.0	1.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	159	207	0.0	0.8	-0.8	
5	400 kV	RANCHI-SIPAT	2	411	0	6.0	0.0	6.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	106	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	173	0	2.8	0.0	2.8	
						ER-WR	32.7	4.0	28.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	347	0.0	7.7	-7.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	32.0	-32.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2005	0.0	27.5	-27.5	
4	400 kV	TALCHER-J/C	2	835	0	10.0	0.0	10.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	67.2	-67.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	499	0.0	8.1	-8.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	445	0.0	5.0	-5.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	146	0.0	2.3	-2.3	
						ER-NER	0.0	15.4	-15.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	854	0.0	20.6	-20.6	
						NER-NR	0.0	20.6	-20.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4563	0.0	75.5	-75.5	
2	HVDC	VINDHYACHAL B/B	-	48	255	0.0	3.9	-3.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2365	0.0	48.2	-48.2	
4	765 kV	GWALIOR-AGRA	2	0	3083	0.0	54.5	-54.5	
5	765 kV	PHAGI-GWALIOR	2	0	1986	0.0	38.8	-38.8	
6	765 kV	JABALPUR-ORAI	2	0	1320	0.0	45.1	-45.1	
7	765 kV	GWALIOR-ORAI	1	681	0	13.0	0.0	13.0	
8	765 kV	SATNA-ORAI	1	0	1665	0.0	34.1	-34.1	
9	765 kV	CHITORGARH-BANASKANTHA	2	749	413	3.9	0.0	3.9	
10	400 kV	ZERDA-KANKROLI	1	195	23	3.0	0.0	3.0	
11	400 kV	ZERDA-BHINMAL	1	404	96	5.0	0.0	5.0	
12	400 kV	VINDHYACHAL-RIHAND	1	965	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUALPUR	2	0	609	0.0	8.7	-8.7	
14	220 kV	BHANPURA-RANPUR	1	0	82	0.0	1.2	-1.2	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.6	-0.5	
16	220 kV	MEHGAON-AURAIYA	1	112	8	0.3	0.2	0.1	
17	220 kV	MALANPUR-AURAIYA	1	73	40	0.9	0.0	0.9	
18	132 kV	GWALIOR-SAWAIMADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	48.8	310.9	-262.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	297	0	7.3	0.0	7.3	
2	HVDC	RAIGARH-PUGALUR	2	1147	0	15.0	0.0	15.0	
3	765 kV	SOLAPUR-RAICHUR	2	2289	1091	13.3	2.5	10.8	
4	765 kV	WARDHA-NIZAMABAD	2	417	1803	0.4	14.3	-13.9	
5	400 kV	KOLHAPUR-KUDGI	2	1562	0	24.8	0.0	24.8	
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	75	1.5	0.0	1.5	
						WR-SR	62.3	16.8	45.5
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	667	0	655	15.7			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1979	1001	1009	24.2			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	320	0	273	6.6			
	NER	132kV GELEPHU-SALAKATI	39	19	28	0.7			
	NER	132kV MOTANGA-RANGIA	41	29	35	0.8			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-60	-1.4			
	ER	NEPAL IMPORT (FROM BIHAR)	-240	-30	-128	-3.1			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-191	-2	-158	-3.8			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-821	-810	-814	-19.5			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-116	0	-103	-2.5			