



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: 18th 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 , 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 18.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 18-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)	66365	51709	37885	23832	2938	182729
Peak Shortage (MW)	1100	26	0	0	1	1127
Energy Met (MU)	1568	1210	873	532	54	4238
Hydro Gen (MU)	366	35	105	141	33	679
Wind Gen (MU)	8	67	117	-	-	193
Solar Gen (MU)*	49.10	33.54	82.76	5.40	0.11	171
Energy Shortage (MU)	19.00	2.00	0.00	0.00	0.05	21.05
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70440	52748	41094	24289	2960	184824
Time Of Maximum Demand Met (From NLDC SCADA)	22:29	15:29	09:42	00:11	19:47	20:26

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	0.033	0.00	0.42	2.33	2.74	67.80	29.45

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	12672	450	296.6	181.4	-1.6	234	14.10	
	Haryana	10385	0	233.4	183.8	-0.1	169	0.15	
	Rajasthan	13220	0	285.8	103.9	4.0	718	0.00	
	Delhi	6253	0	129.3	116.0	-1.1	231	0.08	
	UP	24085	0	489.7	227.0	0.7	745	0.48	
	Uttarakhand	2158	0	47.0	18.9	0.7	315	0.74	
	HP	1598	0	32.2	-2.4	-3.7	0	0.00	
	J&K(UT) & Ladakh(UT)	2328	250	46.7	22.3	-0.3	211	3.45	
WR	Chandigarh	353	0	7.1	6.5	0.6	61	0.00	
	Chhattisgarh	4814	26	115.7	57.5	-0.2	161	2.00	
	Gujarat	16194	0	353.3	165.2	-1.1	695	0.00	
	MP	11194	0	253.8	155.7	3.3	935	0.00	
	Maharashtra	19107	0	429.4	137.7	-3.6	735	0.00	
	Goa	543	0	11.5	10.7	0.2	38	0.00	
	DD	345	0	7.8	7.3	0.5	75	0.00	
	DNH	835	0	19.3	19.1	0.2	62	0.00	
SR	AMNSIL	851	0	19.3	5.7	-0.2	293	0.00	
	Andhra Pradesh	7728	0	163.0	49.6	0.6	773	0.00	
	Telangana	9583	0	184.7	69.2	1.4	916	0.00	
	Karnataka	8406	0	158.9	0.1	0.5	660	0.00	
	Kerala	2915	0	62.5	28.5	0.2	247	0.00	
	Tamil Nadu	13388	0	295.7	140.9	-2.2	573	0.00	
	Puducherry	388	0	8.4	8.7	-0.3	31	0.00	
	ER	Bihar	6378	0	121.9	114.5	-0.4	444	0.00
DVC		3086	0	67.7	-50.0	-0.1	252	0.00	
Jharkhand		1376	0	28.9	23.0	-1.6	257	0.00	
Odisha		6005	0	121.9	43.8	0.3	290	0.00	
West Bengal		9103	0	190.4	61.9	1.4	472	0.00	
Sikkim		86	0	1.3	1.5	-0.3	14	0.00	
NER		Arumachal Pradesh	141	0	2.3	2.6	-0.3	19	0.01
		Assam	1896	0	35.4	27.3	1.1	146	0.00
	Manipur	193	1	2.3	2.6	-0.3	31	0.01	
	Meghalaya	305	0	5.6	1.2	0.0	37	0.00	
	Mizoram	107	1	1.6	1.5	-0.1	16	0.01	
	Nagaland	134	1	2.5	2.3	0.0	12	0.01	
	Tripura	260	0	4.8	3.8	-0.2	39	0.01	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.8	-4.4	-21.9
Day Peak (MW)	2058.0	-307.9	-943.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	386.8	-229.1	-49.5	-101.1	-7.1	0.0
Actual(MU)	387.1	-217.8	-55.7	-108.5	-10.7	-5.6
OD/UD(MU)	0.3	11.4	-6.2	-7.4	-3.6	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4607	13628	8482	2440	655	29812	44
State Sector	6325	18803	8145	4045	11	37329	56
Total	10932	32431	16627	6485	667	67141	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	668	1235	510	531	14	2958	68
Lignite	26	9	44	0	0	79	2
Hydro	366	35	105	141	33	679	16
Nuclear	30	33	41	0	0	104	2
Gas, Naptha & Diesel	32	34	10	0	23	98	2
RES (Wind, Solar, Biomass & Others)	79	101	232	5	0	417	10
Total	1200	1447	941	677	70	4335	100

	NR	WR	SR	ER	NER	TOTAL
Share of RES in total generation (%)	6.57	6.99	24.61	0.80	0.16	9.62
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.56	11.67	40.12	21.58	46.81	27.68

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.074

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: 18-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	1202	0.0	29.1	-29.1
2	HVDC	PUSAULI-B/B	-	0	247	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	763	0.0	13.1	-13.1
4	765 kV	SASARAM-FATEHPUR	1	138	135	0.0	0.0	0.0
5	765 kV	GAYA-BALIA	1	0	523	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	205	0.0	4.3	-4.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	114	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	677	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	4	0	982	0.0	18.4	-18.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	352	0.0	6.0	-6.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	366	0.0	7.0	-7.0
12	400 kV	BIHARSHARIFF-VARANASI	2	0	283	0.0	3.5	-3.5
13	220 kV	PUSAULI-SAHUPURI	1	0	156	0.0	3.0	-3.0
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.6	0.0	0.6
15	132 kV	GARWAH-RIHAND	1	20	0	0.0	0.0	0.0
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
						ER-NR	114.1	-113.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	242	1207	0.0	11.2	-11.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1772	0	29.2	0.0	29.2
3	765 kV	JHARSUGUDA-DURG	2	208	113	0.0	0.0	0.0
4	400 kV	JHARSUGUDA-RAIGARH	4	48	414	0.0	5.0	-5.0
5	400 kV	RANCHI-SIPAT	2	470	0	6.5	0.0	6.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	174	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	105	11	1.0	0.0	1.0
						ER-WR	36.8	17.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	241	0	2.9	0.0	2.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	33.2	-33.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	1777	0.0	24.7	-24.7
4	400 kV	TALCHER-J/C	2	650	117	9.1	0.0	9.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	2.9	-55.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	77	261	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	267	239	0.0	0.0	0.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	111	0.0	1.5	-1.5
						ER-NER	4.5	-4.5
Import/Export of ER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.8	-16.8
						NR-NR	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2503	0.0	78.7	-78.7
2	HVDC	VINDHYACHAL B/B	-	0	253	0.0	4.1	-4.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	39.0	-39.0
4	765 kV	GWALIOR-AGRA	2	0	3060	0.0	56.9	-56.9
5	765 kV	GWALIOR-PHAGI	2	0	2025	0.0	40.0	-40.0
6	765 kV	JABALPUR-ORAI	2	0	1309	0.0	52.2	-52.2
7	765 kV	GWALIOR-ORAI	1	819	0	14.9	0.0	14.9
8	765 kV	SATNA-ORAI	1	0	1571	0.0	33.3	-33.3
9	765 kV	BANASKANTHA-CHITORGARH	2	898	470	5.9	0.0	5.9
10	400 kV	ZERDA-KANKROLI	1	202	64	2.0	0.0	2.0
11	400 kV	ZERDA-BHINMAL	1	315	140	2.7	0.0	2.7
12	400 kV	VINDHYACHAL-RIHAND	1	980	0	22.0	0.0	22.0
13	400 kV	RAPP-SHUJALPUR	2	0	618	0.0	9.7	-9.7
14	220 kV	BHANPURA-RANPUR	1	0	97	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
16	220 kV	MEHGAON-AURAIYA	1	120	12	0.3	0.2	0.1
17	220 kV	MALANPUR-AURAIYA	1	77	43	0.9	0.0	0.9
18	132 kV	GWALIOR-SAWAI MADHOPUR	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	48.7	-267.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	348	515	6.9	0.3	6.7
2	HVDC	RAIGARH-PUGALUR	2	0	0	23.4	0.0	23.4
3	765 kV	SOLAPUR-RAICHUR	2	2052	399	23.6	0.0	23.6
4	765 kV	WARDHA-NIZAMABAD	2	724	1396	2.7	9.8	-7.1
5	400 kV	KOLHAPUR-KUDGI	2	1301	0	20.7	0.0	20.7
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	71	1.4	0.0	1.4
						WR-SR	78.8	68.7
INTERNATIONAL EXCHANGES								
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)	657	0	638	15.3		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1023	1023	1023	24.6		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	296	0	266	6.4		
	NER	132kV GELEPHU-SALAKATI	27	18	22	0.5		
	NER	132kV MOTANGA-RANGIA	55	20	41	1.0		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-49	-1.2		
	ER	NEPAL IMPORT (FROM BIHAR)	-65	-1	-14	-0.3		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-166	-12	-122	-2.9		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-815	-801	-805	-19.3		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-106	-2.5		