



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: 02nd 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 01.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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: 02-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)	66604	46030	42100	21211	2704	178649
Peak Shortage (MW)	720	0	0	0	10	730
Energy Met (MU)	1607	1152	1055	457	50	4321
Hydro Gen (MU)	350	43	117	131	27	669
Wind Gen (MU)	67	202	97	-	-	366
Solar Gen (MU)*	49.16	35.25	78.53	4.71	0.11	168
Energy Shortage (MU)	11.68	0.30	0.00	0.00	0.06	12.04
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72267	50770	50167	21492	2889	190494
Time Of Maximum Demand Met (From NLDC SCADA)	22:13	14:53	12:27	00:01	19:59	12:22

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	0.025	0.00	0.00	2.46	2.46	75.78	21.76

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	13196	125	306.1	172.2	-1.4	266	7.39
	Haryana	11674	0	257.7	187.9	2.2	368	0.00
	Rajasthan	12925	0	286.1	59.9	-1.7	292	0.00
	Delhi	6937	0	141.8	128.7	-1.3	295	0.00
	UP	23565	0	486.5	253.8	1.6	732	0.46
	Uttarakhand	2205	0	48.1	19.9	0.8	160	0.38
	HP	1539	0	30.2	0.4	-3.2	0	0.00
	J&K(UT) & Ladakh(UT)	2310	100	43.5	20.1	-1.3	236	3.45
	Chandigarh	400	0	7.6	7.7	-0.1	35	0.00
	Chhattisgarh	4007	0	92.8	49.8	-2.9	706	0.00
WR	Gujarat	16302	0	359.3	88.5	2.3	882	0.00
	MP	9336	0	209.1	104.3	-2.1	350	0.00
	Maharashtra	20694	0	435.3	143.0	-0.8	682	0.00
	Goa	550	0	11.9	10.9	0.3	30	0.30
	DD	316	0	7.1	7.0	0.1	27	0.00
	DNH	789	0	18.5	18.6	-0.1	69	0.00
	AMNSIL	830	0	18.1	4.3	0.4	300	0.00
SR	Andhra Pradesh	9994	0	189.8	60.1	0.2	841	0.00
	Telangana	11005	0	230.8	90.5	0.3	796	0.00
	Karnataka	11305	0	215.9	58.7	2.6	1212	0.00
	Kerala	3299	0	73.2	51.3	-0.3	259	0.00
	Tamil Nadu	15579	0	336.8	181.4	-1.4	539	0.00
	Puducherry	396	0	8.4	8.6	-0.2	32	0.00
ER	Bihar	5946	0	108.3	101.3	-1.3	253	0.00
	DVC	2979	0	63.4	-48.8	-0.7	254	0.00
	Jharkhand	1554	0	28.0	25.1	-2.4	169	0.00
	Odisha	5139	0	104.4	38.5	-0.5	377	0.00
	West Bengal	7257	0	151.6	28.0	-0.2	477	0.00
NER	Sikkim	81	0	1.3	1.5	-0.2	8	0.00
	Arunachal Pradesh	127	1	2.3	2.5	-0.4	39	0.01
	Assam	1731	0	32.1	26.0	-0.1	95	0.00
	Manipur	184	1	2.6	2.6	0.0	26	0.01
	Meghalaya	310	0	5.7	2.0	-0.1	34	0.00
	Mizoram	101	0	1.6	1.5	0.0	37	0.01
	Nagaland	143	1	2.4	2.4	-0.1	20	0.01
	Tripura	230	2	3.0	2.9	0.0	96	0.02

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.4	-6.8	-20.4
Day Peak (MW)	2065.0	-384.9	-1035.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	380.0	-322.6	92.8	-146.4	-3.8	0.0
Actual(MU)	387.2	-325.3	99.6	-160.9	-6.6	-6.1
O/D/U/D(MU)	7.2	-2.8	6.8	-14.5	-2.8	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5123	18258	7572	1120	588	32661	47
State Sector	7570	17933	7225	3385	11	36124	53
Total	12693	36191	14797	4505	600	68785	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	657	1132	541	518	11	2859	65
Lignite	29	10	53	0	0	91	2
Hydro	350	43	117	131	27	669	15
Nuclear	30	32	46	0	0	108	2
Gas, Naptha & Diesel	45	37	10	0	23	115	3
RES (Wind, Solar, Biomass & Others)	134	237	200	5	0	576	13
Total	1244	1491	968	654	61	4419	100
Share of RES in total generation (%)	10.77	15.92	20.68	0.72	0.18	13.04	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.28	21.00	37.56	20.81	44.01	30.63	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.076

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: 02-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	28.4	-28.4	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	966	0.0	15.0	-15.0	
4	765 kV	SASARAM-FATEHPUR	1	46	237	0.0	2.2	-2.2	
5	765 kV	GAYABALLIA	1	0	691	0.0	11.7	-11.7	
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	4.3	-4.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	106	0.0	1.2	-1.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	916	0.0	17.0	-17.0	
9	400 kV	PATNA-BALLIA	4	0	1302	0.0	22.5	-22.5	
10	400 kV	BIHARSHARIFF-BALLIA	2	0	553	0.0	10.5	-10.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	501	0.0	9.9	-9.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	372	0.0	5.4	-5.4	
13	220 kV	PUSAULI-SAHUPURI	1	22	126	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	0.6	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	135.6	-135.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	910	498	4.0	0.0	4.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1177	69	13.3	0.0	13.3	
3	765 kV	JHARSUGUDA-DURG	2	99	122	0.0	1.5	-1.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	249	124	1.0	0.0	1.0	
5	400 kV	RANCHI-SIPAT	2	321	25	3.5	0.0	3.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	3	108	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	2	175	0	3.1	0.0	3.1	
						ER-WR	24.9	2.7	22.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2387	0.0	35.6	-35.6	
4	400 kV	TALCHER-I/C	2	218	0	4.5	0.0	4.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	87.6	-87.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	287	0.0	4.6	-4.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	118	263	0.0	2.8	-2.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	91	0.0	1.6	-1.6	
						ER-NER	0.0	9.0	-9.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1003	0.0	17.1	-17.1	
						NER-NR	0.0	17.1	-17.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4031	0.0	72.4	-72.4	
2	HVDC	VINDHYACHAL B/B	-	0	253	0.0	3.6	-3.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	38.3	-38.3	
4	765 kV	GWALIOR-AGRA	2	0	3184	0.0	57.2	-57.2	
5	765 kV	PHAGI-GWALIOR	2	0	1579	0.0	26.4	-26.4	
6	765 kV	JABALPUR-ORAI	2	738	1115	0.0	36.9	-36.9	
7	765 kV	GWALIOR-ORAI	1	611	0	12.0	0.0	12.0	
8	765 kV	SAINA-ORAI	1	0	1527	0.0	31.7	-31.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1016	0.0	8.9	-8.9	
10	400 kV	ZERDA-KANKROLI	1	153	64	0.9	0.0	0.9	
11	400 kV	ZERDA-BHINMAL	1	413	0	6.5	0.0	6.5	
12	400 kV	VINDHYACHAL-RIHAND	1	962	0	21.5	0.0	21.5	
13	400 kV	RAPP-SHUJALPUR	2	0	484	0.0	5.2	-5.2	
14	220 kV	BHANPURA-RANPUR	1	0	91	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8	
16	220 kV	MEHGAON-AURAIYA	1	96	0	0.3	0.1	0.1	
17	220 kV	MALANPUR-AURAIYA	1	61	29	0.9	0.0	0.9	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	42.1	283.1	-241.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.4	-7.4	
2	HVDC	RAIGARH-PUGALUR	2	0	1507	0.0	23.6	-23.6	
3	765 kV	SOLAPUR-RAICHUR	2	944	1602	0.0	6.4	-6.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2502	0.0	35.9	-35.9	
5	400 kV	KOLHAPUR-KUDGI	2	1046	0	14.3	0.0	14.3	
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	73	1.4	0.0	1.4	
						WR-SR	15.7	73.4	-57.7
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)	669	0	646	15.5			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1038	1023	1032	24.8			
	ER	230kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	329	0	268	6.4			
	NER	132kV GELEPHU-SALAKATI	55	22	26	0.6			
	NER	132kV MOTANGA-RANGIA	56	39	46	1.1			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-54	0	-32	-0.8			
	ER	NEPAL IMPORT (FROM BIHAR)	-125	-1	-58	-1.4			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-206	-2	-194	-4.7			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-681	-753	-18.1			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	107	0	-98	-2.4			