



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: 21st 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 20.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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: 21-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)	50808	47375	38104	22883	3031	162201
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1205	1134	887	498	59	3783
Hydro Gen (MU)	342	24	118	108	35	627
Wind Gen (MU)	50	236	214	-	-	500
Solar Gen (MU)*	37.12	19.86	82.12	4.21	0.05	143
Energy Shortage (MU)	4.18	0.50	0.00	0.00	0.00	4.68
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56047	49543	41988	23588	3044	166525
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:13	09:56	00:03	19:21	10:16

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	0.032	0.00	0.00	0.87	0.87	74.95	24.19

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	11338	0	206.7	152.9	-11.0	68	0.00
	Haryana	7241	0	152.8	134.1	-0.7	396	0.00
	Rajasthan	11432	0	250.9	70.5	1.2	519	0.37
	Delhi	4977	0	98.2	89.9	-2.2	76	0.00
	UP	18356	0	382.1	179.9	0.5	661	0.05
	Uttarakhand	1765	0	38.4	14.0	0.3	164	0.00
	HP	1395	0	26.7	-7.6	-1.9	6	0.31
	J&K(UT) & Ladakh(UT)	2273	250	43.6	17.9	0.2	341	3.45
	Chandigarh	277	0	5.2	6.4	-1.2	0	0.00
WR	Chhattisgarh	4747	26	109.5	61.6	-0.4	153	0.50
	Gujarat	15053	0	335.8	126.0	1.9	733	0.00
	MP	9696	0	217.3	143.2	-2.3	501	0.00
	Maharashtra	19113	0	415.8	132.1	-3.6	752	0.00
	Goa	542	0	11.1	10.7	-0.2	24	0.00
	DD	328	0	7.4	7.2	0.2	17	0.00
	DNH	821	0	18.8	18.5	0.3	63	0.00
	AMNSIL	810	0	18.0	5.0	-0.2	275	0.00
	Andhra Pradesh	7528	0	164.0	38.6	0.4	435	0.00
SR	Telangana	10064	0	193.6	78.5	-1.1	542	0.00
	Karnataka	7967	0	147.5	-15.9	-1.2	614	0.00
	Kerala	3245	0	68.5	29.5	-1.0	217	0.00
	Tamil Nadu	14011	0	304.9	123.9	-0.8	413	0.00
	Puducherry	411	0	8.4	8.7	-0.3	33	0.00
ER	Bihar	6396	0	117.4	111.0	-0.2	652	0.00
	DVC	3021	0	66.1	-28.5	-0.6	305	0.00
	Jharkhand	1601	0	28.7	24.7	-2.7	185	0.00
	Odisha	5496	0	114.0	45.1	-1.0	296	0.00
	West Bengal	8635	0	170.6	54.8	0.0	362	0.00
	Sikkim	85	0	1.4	1.5	-0.1	16	0.00
	Assam	148	0	2.4	2.5	-0.1	28	0.00
NER	Assam	1982	0	39.0	32.1	0.9	90	0.00
	Manipur	196	0	2.5	2.6	0.0	27	0.00
	Meghalaya	305	0	5.7	1.8	0.0	28	0.00
	Mizoram	105	0	1.6	1.5	-0.1	16	0.00
	Nagaland	139	0	2.5	2.3	-0.1	12	0.00
	Tripura	279	0	5.1	4.0	0.0	38	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	21.4	-3.1	-22.3
Day Peak (MW)	1021.0	-302.7	-963.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	271.5	-191.9	-33.0	-42.6	-4.0	0.0
Actual(MU)	235.8	-161.3	-29.5	-45.5	-3.5	-4.0
OD/UD(MU)	-35.8	30.6	3.5	-2.9	0.5	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7092	16908	9732	660	647	35038	42
State Sector	11500	22077	10095	5075	95	48842	58
Total	18592	38985	19827	5735	742	83881	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	471	961	393	457	10	2292	59
Lignite	20	12	36	0	0	67	2
Hydro	342	24	118	108	35	627	16
Nuclear	30	33	42	0	0	105	3
Gas, Naptha & Diesel	19	28	12	0	22	81	2
RES (Wind, Solar, Biomass & Others)	106	256	328	4	0	695	18
Total	988	1313	929	570	67	3867	100

Share of RES in total generation (%)	10.76	19.49	35.35	0.74	0.07	17.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	48.42	23.82	52.51	19.76	52.54	36.90

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
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: 21-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	1000	0.0	24.6	-24.6	
2	HVDC	PUSAULI-B/B	-	0	245	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	25	425	0.0	4.5	-4.5	
4	765 kV	SASARAM-EATEHPUR	1	329	0	5.7	0.0	5.7	
5	765 kV	GAYA-BALIA	1	0	479	0.0	7.0	-7.0	
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	5.0	-5.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	83	0.0	0.8	-0.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	444	0.0	5.7	-5.7	
9	400 kV	PATNA-BALIA	4	0	551	0.0	9.9	-9.9	
10	400 kV	BIHARSHARIFF-BALIA	2	62	133	0.0	0.5	-0.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	270	0.0	3.6	-3.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	123	70	0.5	0.0	0.5	
13	220 kV	PUSAULI-SAHUPURI	1	0	151	0.0	2.8	-2.8	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.2	-0.2	
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7	
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	6.8	70.3	-63.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	844	400	7.7	0.0	7.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2023	0	39.4	0.0	39.4	
3	765 kV	JHARSUGUDA-DURG	2	278	0	4.6	0.0	4.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	403	0.0	5.7	-5.7	
5	400 kV	RANCHI-SIPAT	2	490	0	9.6	0.0	9.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	160	0.0	2.5	-2.5	
7	220 kV	BUDHIPADAR-KORBA	2	93	16	1.2	0.0	1.2	
						ER-WR	62.5	8.3	54.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	304	0	7.3	0.0	7.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	29.0	-29.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2229	0.0	36.6	-36.6	
4	400 kV	TALCHER-J/C	2	404	891	0.0	2.8	-2.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	7.3	65.6	-58.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	19	351	0.0	4.1	-4.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	116	372	0.0	2.8	-2.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	122	0.0	1.6	-1.6	
						ER-NER	0.0	8.4	-8.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	13.3	-13.3	
						NER-NR	0.0	13.3	-13.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3019	0.0	39.2	-39.2	
2	HVDC	VINDHYACHAL B/B	-	195	0	0.0	4.9	-4.9	
3	HVDC	MUNDA-MOHINDERGARH	2	0	1454	0.0	29.4	-29.4	
4	765 kV	GWALIOR-AGRA	2	0	2585	0.0	46.4	-46.4	
5	765 kV	GWALIOR-PHAGI	2	0	1113	0.0	19.7	-19.7	
6	765 kV	JABALPUR-ORAI	2	0	1057	0.0	38.4	-38.4	
7	765 kV	GWALIOR-ORAI	1	512	0	9.7	0.0	9.7	
8	765 kV	SATNA-ORAI	1	0	1313	0.0	26.6	-26.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	145	670	0.0	6.8	-6.8	
10	400 kV	ZERDA-KANKROLI	1	127	48	1.2	0.0	1.2	
11	400 kV	ZERDA-BHINMAL	1	364	43	4.9	0.0	4.9	
12	400 kV	VINDHYACHAL-RIHAND	1	964	0	21.7	0.0	21.7	
13	400 kV	RAPP-SHUALPUR	2	0	334	0.0	3.4	-3.4	
14	220 kV	BHANPURA-RANPUR	1	0	109	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	117	14	0.1	0.3	-0.2	
17	220 kV	MALANPUR-AURAIYA	1	32	39	0.7	0.0	0.7	
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	38.3	217.0	-178.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	344	319	0.0	0.1	-0.1	
2	HVDC	RAIGARH-PUGALUR	2	2149	0	41.9	0.0	41.9	
3	765 kV	SOLAPUR-RAICHUR	2	1761	581	14.8	0.0	14.8	
4	765 kV	WARDHA-NIZAMABAD	2	341	1807	0.5	18.2	-17.7	
5	400 kV	KOLHAPUR-KUDGI	2	1257	0	21.9	0.0	21.9	
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	1.5	0.0	1.5	
						WR-SR	80.6	18.4	62.2
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)	667	0	607	14.6			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	12	0	3	0.1			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	242	0	210	5.0			
	NER	132kV GELEPHU-SALAKATI	34	17	21	0.5			
	NER	132kV MOTANGA-RANGIA	66	12	50	1.2			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-52	-1.2			
	ER	NEPAL IMPORT (FROM BIHAR)	-74	0	-7	-0.2			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-156	-2	-70	-1.7			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-834	-820	-821	-19.7			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-129	0	-108	-2.6			