



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: 29th 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 28.07.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-जुलाई-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 28th 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:

29-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)	51967	45751	41004	21912	2813	163447
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1146	1051	994	495	59	3746
Hydro Gen (MU)	339	25	145	126	29	665
Wind Gen (MU)	55	255	228	-	-	538
Solar Gen (MU)*	26.02	16.71	98.23	4.03	0.23	145
Energy Shortage (MU)	3.71	0.00	0.00	0.00	0.04	3.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54342	46180	46860	23158	2838	165089
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:44	09:38	19:35	20:04	19:48

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	0.022	0.00	0.00	3.18	3.18	86.45	10.37

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	8941	0	186.9	149.8	-10.0	169	0.00
	Haryana	7962	0	151.9	131.6	0.0	369	0.00
	Rajasthan	10355	0	227.5	61.6	0.6	540	0.00
	Delhi	4907	0	102.4	91.9	-2.2	75	0.00
	UP	19533	0	363.2	173.2	-2.8	647	0.13
	Uttarakhand	1885	0	39.8	18.8	0.6	199	0.13
	HP	1436	0	28.6	-6.9	-3.7	6	0.00
	J&K(UT) & Ladakh(UT)	2361	100	40.7	13.7	1.5	559	3.45
WR	Chandigarh	246	0	5.2	6.4	-1.1	0	0.00
	Chhattisgarh	3424	0	79.3	35.7	0.0	263	0.00
	Gujarat	13932	0	307.8	105.3	2.2	677	0.00
	MP	8457	0	182.9	89.6	-1.8	387	0.00
	Maharashtra	19828	0	425.7	128.7	2.8	716	0.00
	Goa	600	0	11.2	11.2	0.0	80	0.00
	DD	329	0	7.4	7.1	0.3	26	0.00
	DNH	843	0	19.6	19.3	0.3	45	0.00
SR	AMNSIL	851	0	17.5	6.5	-0.6	291	0.00
	Andhra Pradesh	9227	0	192.4	37.5	-0.3	539	0.00
	Telangana	11185	0	219.9	102.3	0.2	668	0.00
	Karnataka	9029	0	170.0	3.5	-1.2	447	0.00
	Kerala	3293	0	69.8	29.1	-1.6	167	0.00
	Tamil Nadu	14866	0	333.1	135.5	-0.6	577	0.00
	Puducherry	436	0	9.0	8.9	0.2	57	0.00
ER	Bihar	6348	0	125.7	123.4	1.9	364	0.00
	DVC	3298	0	67.4	-26.0	-1.6	354	0.00
	Jharkhand	1650	0	30.8	27.6	-2.3	85	0.00
	Odisha	5290	0	107.2	38.9	-0.9	290	0.00
	West Bengal	8120	0	162.8	53.3	0.6	522	0.00
	Sikkim	85	0	1.4	1.6	-0.2	14	0.00
NER	Arunachal Pradesh	130	0	2.1	2.3	-0.2	22	0.01
	Assam	1825	0	38.9	31.7	1.0	149	0.00
	Manipur	198	0	2.6	2.6	0.1	25	0.01
	Meghalaya	292	0	5.4	1.6	0.5	96	0.00
	Mizoram	99	0	1.7	1.4	0.2	19	0.01
	Nagaland	140	0	2.7	2.2	0.0	20	0.01
	Tripura	265	0	5.8	5.0	-0.4	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	36.4	-6.7	-21.8
Day Peak (MW)	1690.0	-440.4	-949.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	279.5	-237.8	21.4	-59.6	-3.5	0.0
Actual(MU)	260.0	-240.6	20.3	-43.2	-4.5	-8.1
O/D/U/D(MU)	-19.5	-2.9	-1.1	16.4	-1.0	-8.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	9743	17795	10192	1220	259	39209	43
State Sector	13130	22560	10498	6060	173	52420	57
Total	22873	40354	20690	7280	431	91629	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	415	932	393	434	10	2185	57
Lignite	23	13	37	0	0	73	2
Hydro	339	25	145	126	29	665	17
Nuclear	27	33	42	0	0	101	3
Gas, Naptha & Diesel	21	33	11	0	28	93	2
RES (Wind, Solar, Biomass & Others)	103	272	356	4	0	735	19
Total	928	1308	985	564	68	3852	100

Share of RES in total generation (%)	11.08	20.80	36.17	0.71	0.34	19.09
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	50.50	25.22	55.20	23.07	43.61	38.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.100

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: 29-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	1001	0.0	24.8	-24.8	
2	HVDC	PUSAULI B/B	-	0	245	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	177	469	0.0	3.8	-3.8	
4	765 kV	SASARAM-FATEHPUR	1	313	0	5.0	0.0	5.0	
5	765 kV	GAYA-BALIA	1	0	501	0.0	7.1	-7.1	
6	400 kV	PUSAULI-VARANASI	1	0	244	0.0	5.3	-5.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	51	0.0	0.5	-0.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	15	455	0.0	5.4	-5.4	
9	400 kV	PATNA-BALIA	4	0	665	0.0	9.1	-9.1	
10	400 kV	BIHARSHARIFF-BALIA	2	66	151	0.0	0.4	-0.4	
11	400 kV	MOTIHARI-GORAKHPUR	2	34	395	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	191	71	1.4	0.0	1.4	
13	220 kV	PUSAULI-SAHUPURI	1	0	143	0.0	2.4	-2.4	
14	132 kV	SONE NAGAR-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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	6.8	68.7	-61.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1377	0	19.7	0.0	19.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1966	0	32.9	0.0	32.9	
3	765 kV	JHARSUGUDA-DURG	2	290	0	4.1	0.0	4.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	252	82	2.4	0.0	2.4	
5	400 kV	RANCHI-SIPAT	2	536	0	8.9	0.0	8.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	31	58	0.0	0.4	-0.4	
7	220 kV	BUDHIPADAR-KORBA	2	175	0	3.1	0.0	3.1	
						ER-WR	71.1	0.4	70.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	452	0.0	7.1	-7.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	27.3	-27.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2413	0.0	39.1	-39.1	
4	400 kV	TALCHER-I/C	2	546	727	0.9	0.0	0.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	73.4	-73.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	293	0.0	4.9	-4.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	52	320	0.0	4.3	-4.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	108	0.0	1.9	-1.9	
						ER-NER	0.0	11.1	-11.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0	
						NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4030	0.0	43.5	-43.5	
2	HVDC	VINDHYACHAL B/B	-	146	254	1.2	1.1	0.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1917	0.0	39.5	-39.5	
4	765 kV	GWALIOR-AGRA	2	0	2820	0.0	46.6	-46.6	
5	765 kV	GWALIOR-PHAGI	2	0	1301	0.0	20.4	-20.4	
6	765 kV	JABALPUR-ORAI	2	0	1002	0.0	33.7	-33.7	
7	765 kV	GWALIOR-ORAI	1	653	0	11.7	0.0	11.7	
8	765 kV	SATNA-ORAI	1	0	1189	0.0	23.8	-23.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1010	0.0	13.4	-13.4	
10	400 kV	ZERDA-KANKROLI	1	94	111	0.4	0.0	0.4	
11	400 kV	ZERDA-BHINMAL	1	289	109	3.8	0.0	3.8	
12	400 kV	VINDHYACHAL-RIHAND	1	973	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUJALPUR	2	0	428	0.0	4.6	-4.6	
14	220 kV	BHANPURA-RANPUR	1	0	133	0.0	2.3	-2.3	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1	
16	220 kV	MEHGAON-AURAIYA	1	93	43	0.1	0.5	-0.4	
17	220 kV	MALANPUR-AURAIYA	1	63	56	0.3	0.2	0.1	
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	39.9	231.5	-191.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	594	0	13.2	0.0	13.2	
2	HVDC	RAIGARH-PUGALUR	2	1644	0	25.1	0.0	25.1	
3	765 kV	SOLAPUR-RAICHUR	2	1880	1214	3.6	0.0	3.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2723	0.0	37.8	-37.8	
5	400 kV	KOLHAPUR-KUDGI	2	1353	0	18.1	0.0	18.1	
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	1	79	1.4	0.0	1.4	
						WR-SR	61.3	37.8	23.6

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	643	0	622	14.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	574	533	545	13.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	383	0	281	6.8
	NER	132kV GELEPHU-SALAKATI	-28	-12	23	0.6
	NER	132kV MOTANGA-RANGIA	-62	-29	47	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-81	0	-45	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	-132	-19	-66	-1.6
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-227	-90	-168	-4.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-828	-796	-805	-19.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-121	0	-103	-2.5