



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: 17th 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., डोंगतिह, 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 16.07.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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: 17-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)	66521	50566	37752	24090	2895	181824
Peak Shortage (MW)	702	0	0	0	0	702
Energy Met (MU)	1544	1186	870	542	55	4198
Hydro Gen (MU)	381	32	111	140	31	695
Wind Gen (MU)	9	52	122	-	-	183
Solar Gen (MU)*	53.01	35.47	79.22	5.19	0.21	173
Energy Shortage (MU)	13.82	0.50	0.00	0.00	0.04	14.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70796	50597	42057	24727	2904	184571
Time Of Maximum Demand Met (From NLDC SCADA)	23:46	11:17	09:42	23:31	20:14	21:38

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	0.041	0.07	1.12	10.22	11.41	79.55	9.04

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	12715	0	291.6	180.8	-1.1	75	4.11
	Haryana	10058	25	208.3	163.9	2.1	421	0.40
	Rajasthan	12229	0	269.2	88.6	3.3	793	3.36
	Delhi	6313	0	125.9	114.4	-1.3	215	0.00
	UP	24795	170	504.7	228.1	0.2	456	2.50
	Uttarakhand	2098	0	46.9	16.3	0.6	127	0.00
	HP	1576	0	47.1	-2.6	-3.4	0	0.00
	J&K(UT) & Ladakh(UT)	2251	250	43.8	22.5	-4.2	109	3.45
	Chandigarh	350	0	6.8	6.3	0.5	64	0.00
	Chhattisgarh	4748	0	113.2	55.6	0.4	244	0.50
WR	Gujarat	15866	0	346.0	174.8	1.3	502	0.00
	MP	10817	0	248.8	155.7	2.2	658	0.00
	Maharashtra	18788	0	421.5	141.3	-4.3	581	0.00
	Goa	542	0	12.4	10.7	1.1	28	0.00
	DD	346	0	7.7	7.4	0.3	26	0.00
	DNH	808	0	18.7	18.7	0.0	51	0.00
	AMNSIL	803	0	18.0	4.5	0.0	285	0.00
	Andhra Pradesh	7661	0	160.2	41.9	0.0	616	0.00
	Telangana	8890	0	173.3	67.3	0.4	392	0.00
	Karnataka	8573	0	159.2	-1.9	-1.1	540	0.00
SR	Kerala	3198	0	66.1	33.3	-0.8	197	0.00
	Tamil Nadu	13758	0	302.9	158.3	1.8	1442	0.00
	Puducherry	401	0	8.7	8.8	-0.1	30	0.00
	Bihar	6627	0	132.9	125.0	0.3	295	0.00
	DVC	3190	0	68.0	-45.7	-0.5	314	0.00
	Jharkhand	1403	0	29.9	23.9	-1.6	163	0.00
	Odisha	5956	0	119.6	45.9	0.4	434	0.00
	West Bengal	9245	0	190.0	59.9	0.4	416	0.00
	Sikkim	83	0	1.4	1.6	-0.2	21	0.00
	NER	Arumachal Pradesh	134	0	2.3	2.5	-0.2	21
Assam		1879	0	36.0	29.5	0.7	128	0.00
Manipur		204	1	2.5	2.6	-0.1	42	0.01
Meghalaya		312	0	5.7	0.9	0.1	63	0.00
Mizoram		101	0	1.6	1.5	-0.1	39	0.01
Nagaland		132	1	2.4	2.3	0.0	17	0.01
Tripura		292	0	4.9	4.9	-0.1	128	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.7	-6.2	-21.8
Day Peak (MW)	2085.0	-443.2	-961.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	356.0	-207.0	-48.1	-96.1	-4.8	0.0
Actual(MU)	354.7	-200.3	-53.2	-101.6	-6.4	-6.8
OD/UD(MU)	-1.2	6.6	-5.0	-5.5	-1.6	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4907	14373	7882	2340	622	30124	43
State Sector	8020	18543	9078	3855	11	39507	57
Total	12927	32916	16960	6195	633	69631	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	671	1213	496	532	13	2925	68
Lignite	25	9	45	0	0	79	2
Hydro	381	32	111	140	31	695	16
Nuclear	30	32	41	0	0	103	2
Gas, Naptha & Diesel	29	31	11	0	22	93	2
RES (Wind, Solar, Biomass & Others)	83	87	233	5	0	409	9
Total	1218	1404	937	678	67	4303	100

Share of RES in total generation (%)	6.83	6.22	24.83	0.77	0.31	9.49
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.51	10.80	41.09	21.48	46.71	28.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.068

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: 17-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	1505	0.0	26.6	-26.6
2	HVDC	PUSAULI-B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	668	0.0	10.8	-10.8
4	765 kV	SASARAM-EATEHPUR	1	168	92	1.2	0.0	1.2
5	765 kV	GAYA-BALIA	1	0	580	0.0	10.6	-10.6
6	400 kV	PUSAULI-VARANASI	1	0	238	0.0	4.8	-4.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	88	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	585	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	4	0	1023	0.0	18.3	-18.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	340	0.0	5.9	-5.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	421	0.0	7.1	-7.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	180	0.0	2.3	-2.3
13	220 kV	PUSAULI-SAHUPURI	1	26	152	0.0	2.0	-2.0
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.6	0.0	0.6
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-CHANDAUJI	1	0	0	0.0	0.0	0.0
						ER-NR	105.5	-103.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	371	1170	0.0	9.3	-9.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1734	0	30.3	0.0	30.3
3	765 kV	JHARSUGUDA-DURG	2	66	111	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	384	0.0	5.6	-5.6
5	400 kV	RANCHI-SIPAT	2	414	0	7.1	0.0	7.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	143	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	93	0	1.2	0.0	1.2
						ER-WR	38.5	20.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	246	0	6.1	0.0	6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1653	0.0	35.5	-35.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2048	0.0	27.7	-27.7
4	400 kV	TALCHER-J/C	2	730	0	7.3	0.0	7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	63.2	-57.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	274	0.0	4.5	-4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	143	343	0.0	2.5	-2.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	106	0.0	1.9	-1.9
						ER-NER	8.9	-8.9
Import/Export of ER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
						NER-NR	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5047	0.0	75.5	-75.5
2	HVDC	VINDHYACHAL B/B	-	0	253	0.0	2.8	-2.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1914	0.0	36.5	-36.5
4	765 kV	GWALIOR-AGRA	2	0	3054	0.0	53.8	-53.8
5	765 kV	GWALIOR-PHAGI	2	0	2072	0.0	36.7	-36.7
6	765 kV	JABALPUR-ORAI	2	0	1368	0.0	48.6	-48.6
7	765 kV	GWALIOR-ORAI	1	744	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	1632	0.0	31.8	-31.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1017	149	10.9	0.0	10.9
10	400 kV	ZERDA-KANKROLI	1	230	21	3.2	0.0	3.2
11	400 kV	ZERDA-BHINMAL	1	360	72	4.9	0.0	4.9
12	400 kV	VINDHYACHAL-RIHAND	1	964	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUALPUR	2	0	660	0.0	7.9	-7.9
14	220 kV	BHANPURA-RANPUR	1	0	111	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.7
16	220 kV	MEHGAON-AURAIYA	1	104	0	0.3	0.2	0.1
17	220 kV	MALANPUR-AURAIYA	1	63	33	1.0	0.0	1.0
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	295.9	-243.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	0	7.3	0.0	7.3
2	HVDC	RAIGARH-PUGALUR	2	1447	0	24.8	0.0	24.8
3	765 kV	SOLAPUR-RAICHUR	2	1914	591	19.6	0.0	19.6
4	765 kV	WARDHA-NIZAMABAD	2	732	1606	1.8	10.8	-9.0
5	400 kV	KOLHAPUR-KUDGI	2	1268	0	20.6	0.0	20.6
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	74	1.4	0.0	1.4
						WR-SR	75.4	64.6
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)	666	0	612	14.7		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1023	1023	1023	24.8		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	307	0	271	6.5		
	NER	132kV GELEPHU-SALAKATI	31	22	26	0.6		
	NER	132kV MOTANGA-RANGIA	58	35	45	1.1		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-57	-1.4		
	ER	NEPAL IMPORT (FROM BIHAR)	-126	-1	-24	-0.6		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-241	-67	-178	-4.3		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-814	-715	-774	-18.6		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-147	0	-134	-3.2		