



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: 25th 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 24.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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: 25-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)	63316	46773	38146	23464	3034	174733
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1418	1080	858	483	59	3897
Hydro Gen (MU)	377	26	134	124	29	690
Wind Gen (MU)	14	148	225	-	-	386
Solar Gen (MU)*	49.04	24.11	91.35	4.57	0.28	169
Energy Shortage (MU)	3.69	0.00	0.00	0.00	0.04	3.73
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66640	47126	40529	23937	3061	175255
Time Of Maximum Demand Met (From NLDC SCADA)	22:41	09:51	09:28	22:12	19:32	20:42

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	0.048	0.00	2.26	11.73	13.99	80.13	5.88

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	12032	0	272.2	179.8	-0.9	60	0.00
	Haryana	9459	0	202.5	175.4	1.2	274	0.00
	Rajasthan	11547	0	258.8	109.6	0.8	525	0.00
	Delhi	5374	0	113.4	103.2	-3.0	633	0.00
	UP	22919	0	440.5	205.1	-1.5	514	0.24
	Uttarakhand	2065	0	45.4	17.5	0.1	127	0.00
	HP	1531	0	30.3	-6.1	-3.3	0	0.00
	J&K(UT) & Ladakh(UT)	2392	100	48.4	23.0	0.1	236	3.45
	Chandigarh	322	0	6.4	6.6	-0.2	40	0.00
	Chhattisgarh	3697	0	85.1	39.5	-0.3	224	0.00
WR	Gujarat	15732	0	344.8	176.3	-2.5	714	0.00
	MP	8713	0	196.6	117.7	-3.1	462	0.00
	Maharashtra	18083	0	397.0	121.1	-4.3	524	0.00
	Goa	563	0	11.4	10.7	0.2	33	0.00
	DD	331	0	7.4	7.2	0.2	51	0.00
	DNH	830	0	19.3	19.3	0.0	41	0.00
	AMNSIL	844	0	18.0	5.2	-0.2	252	0.00
SR	Andhra Pradesh	7584	0	160.1	35.6	-0.7	365	0.00
	Telangana	8089	0	160.4	39.3	-0.6	550	0.00
	Karnataka	7847	0	145.6	0.0	-1.3	843	0.00
	Kerala	3098	0	64.2	23.4	-1.5	153	0.00
	Tamil Nadu	14247	0	318.7	115.7	0.8	950	0.00
	Puducherry	440	0	9.1	9.1	0.0	44	0.00
	Bihar	6516	0	114.2	110.4	-1.3	487	0.00
ER	DVC	3005	0	64.6	-42.9	-1.0	318	0.00
	Jharkhand	1622	0	29.4	25.1	-0.1	212	0.00
	Odisha	5999	0	110.7	35.4	-1.1	421	0.00
	West Bengal	8270	0	162.4	53.1	-0.7	432	0.00
	Sikkim	74	0	1.3	1.5	-0.2	30	0.00
NER	Arunachal Pradesh	136	0	2.2	2.1	0.1	56	0.01
	Assam	2034	0	39.8	32.5	0.3	119	0.00
	Manipur	187	0	2.5	2.4	0.1	28	0.01
	Meghalaya	292	0	5.3	2.3	0.0	22	0.00
	Mizoram	100	0	1.6	1.4	0.0	41	0.01
	Nagaland	138	0	2.5	2.2	-0.1	20	0.01
	Tripura	296	0	4.7	3.9	-0.5	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	32.5	-2.4	-21.5
Day Peak (MW)	1590.0	-186.5	-926.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	398.1	-215.7	-67.0	-110.8	-4.6	0.0
Actual(MU)	400.5	-211.3	-71.1	-112.9	-6.8	-1.7
O/D/U/D(MU)	2.4	4.4	-4.1	-2.1	-2.2	-1.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7472	16115	10582	660	259	35087	42
State Sector	9940	21716	11268	4895	11	47830	58
Total	17412	37831	21850	5555	270	82917	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	521	1049	373	493	12	2448	61
Lignite	25	13	44	0	0	81	2
Hvdro	377	26	134	124	29	690	17
Nuclear	30	33	42	0	0	105	3
Gas, Naptha & Diesel	22	28	12	0	29	91	2
RES (Wind, Solar, Biomass & Others)	84	172	346	5	0	606	15
Total	1059	1320	951	621	70	4021	100
Share of RES in total generation (%)	7.94	13.00	36.38	0.73	0.40	15.08	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.37	17.42	54.94	20.65	42.29	34.85	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.064

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: 25-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	2003	0.0	20.8	-20.8
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	915	0.0	16.2	-16.2
4	765 kV	SASARAM-FATEHPUR	1	90	211	0.7	0.0	0.7
5	765 kV	GAYABALLA	1	0	766	0.0	13.8	-13.8
6	400 kV	PUSAULI-VARANASI	1	0	217	0.0	4.4	-4.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	113	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	754	0.0	13.1	-13.1
9	400 kV	PATNA-BALLA	4	0	1334	0.0	24.6	-24.6
10	400 kV	BIHARSHARIFF-BALLA	2	0	450	0.0	8.1	-8.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	467	0.0	7.5	-7.5
12	400 kV	BIHARSHARIFF-VARANASI	2	0	265	0.0	3.3	-3.3
13	220 kV	PUSAULI-SAHUPURI	1	0	140	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	0.5	0.0	0.5
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						1.1	122.0	-120.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	395	1114	0.0	5.6	-5.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1755	0	27.2	0.0	27.2
3	765 kV	JHARSUGUDA-DURG	2	231	0	2.9	0.0	2.9
4	400 kV	JHARSUGUDA-RAIGARH	4	144	253	0.0	1.2	-1.2
5	400 kV	RANCHI-SIPAT	2	433	0	8.6	0.0	8.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	117	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	124	0	1.6	0.0	1.6
ER-WR						40.4	8.5	31.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	298	0	7.4	0.0	7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1092	0.0	24.2	-24.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2144	0.0	30.9	-30.9
4	400 kV	TALCHER-I/C	2	802	300	3.8	0.0	3.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						7.4	55.1	-47.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	370	0.0	3.6	-3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	325	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	110	0.0	1.8	-1.8
ER-NER						0.0	8.6	-8.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	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	5040	0.0	75.6	-75.6
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	5.6	-5.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1638	0.0	27.4	-27.4
4	765 kV	GWALIOR-AGRA	2	0	3301	0.0	59.3	-59.3
5	765 kV	GWALIOR-PHAGI	2	0	2137	0.0	38.9	-38.9
6	765 kV	JABALPUR-ORAI	2	0	1489	0.0	52.6	-52.6
7	765 kV	GWALIOR-ORAI	1	623	0	13.3	0.0	13.3
8	765 kV	SAINA-ORAI	1	0	1654	0.0	31.5	-31.5
9	765 kV	BANASKANTHA-CHITORGARH	2	606	460	0.0	1.6	-1.6
10	400 kV	ZERDA-KANKROLI	1	161	67	1.0	0.0	1.0
11	400 kV	ZERDA-BHINMAL	1	203	128	1.3	0.0	1.3
12	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.0	0.0	22.0
13	400 kV	RAPP-SHUJALPUR	2	0	788	0.0	11.8	-11.8
14	220 kV	BHANPURA-RANPUR	1	0	145	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9
16	220 kV	MEHGAON-AURAIYA	1	78	17	0.1	0.4	-0.3
17	220 kV	MALANPUR-AURAIYA	1	44	48	0.4	0.1	0.4
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						38.1	309.0	-270.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	794	0	12.8	0.0	12.8
2	HVDC	BAIGARH-PUGALUR	2	2015	0	38.3	0.0	38.3
3	765 kV	SOLAPUR-RAICHUR	2	1291	289	21.7	0.0	21.7
4	765 kV	WARDHA-NIZAMABAD	2	770	1398	2.2	0.0	-6.6
5	400 kV	KOLHAPUR-KUDGI	2	1364	0	24.3	0.0	24.3
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	77	1.4	0.0	1.4
WR-SR						100.7	8.8	92.0
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)	635	622	635	15.5		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	527	232	381	9.1		
	ER	230kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	337	235	253	6.1		
	NER	132kV GELEPHU-SALAKATI	25	20	23	0.5		
	NER	132kV MOTANGA-RANGIA	66	41	52	1.2		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-42	-1.0		
	ER	NEPAL IMPORT (FROM BIHAR)	-16	-5	-11	-0.3		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-96	-2	-48	-1.2		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-808	0	-797	-19.1		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-118	0	-100	-2.4		