



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: 25<sup>th</sup> Jul 2020

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 24.07.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-जुलाई-2020 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 24<sup>th</sup> July 2020, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 25-Jul-2020

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	55560	43470	36320	21236	2675	159261
Peak Shortage (MW)	519	0	0	0	9	528
Energy Met (MU)	1270	1045	851	428	49	3643
Hydro Gen (MU)	331	22	105	137	29	626
Wind Gen (MU)	21	37	43	-	-	101
Solar Gen (MU)*	38.06	20.40	66.26	4.26	0.02	129
Energy Shortage (MU)	10.9	0.0	0.0	0.0	0.0	10.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59111	45259	39671	20783	2699	160247
Time Of Maximum Demand Met (From NLDC SCADA)	22:45	10:03	10:28	20:39	19:28	19:53

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	0.021	0.00	0.00	3.19	3.19	84.57	12.23

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	10344	0	230.7	143.2	0.2	148	0.0
	Haryana	8181	0	175.3	151.5	0.9	272	0.4
	Rajasthan	10597	0	228.0	80.0	-2.3	293	0.0
	Delhi	4744	0	96.4	84.4	-1.4	177	0.0
	UP	21618	0	421.0	186.2	-1.6	259	0.0
	Uttarakhand	1842	0	39.3	17.9	0.6	230	0.0
	HP	1466	16	29.7	-2.9	2.5	392	0.0
	J&K(UT) & Ladakh(UT)	2198	550	44.1	19.7	1.4	237	10.5
WR	Chhattisgarh	294	0	5.7	5.5	0.2	32	0.0
	Gujarat	3821	0	89.9	24.5	-0.3	230	0.0
	Maharashtra	15174	0	327.0	87.7	4.6	545	0.0
	MP	9622	0	217.8	120.4	0.8	614	0.0
	Maharashtra	16788	0	363.7	148.2	-3.7	684	0.0
	Goa	426	0	9.0	8.8	-0.2	43	0.0
	DD	249	0	5.5	5.3	0.2	21	0.0
	DNH	628	0	14.4	14.4	0.0	36	0.0
SR	AMNSIL	807	0	18.0	7.7	0.3	230	0.0
	Andhra Pradesh	7049	0	150.9	70.0	-0.1	485	0.0
	Telangana	9208	0	180.1	83.4	-0.5	579	0.0
	Karnataka	8194	0	158.3	62.8	1.9	589	0.0
	Kerala	3037	0	64.3	45.6	1.2	224	0.0
	Tamil Nadu	13214	0	289.2	149.1	-5.1	392	0.0
	Puducherry	353	0	7.7	7.9	-0.2	23	0.0
	ER	Bihar	5230	0	102.3	95.9	1.5	557
DVC		2878	0	62.4	-45.0	-0.1	228	0.0
Jharkhand		1372	0	25.7	17.6	-0.4	142	0.0
Odisha		4397	0	89.7	2.6	-1.9	391	0.0
West Bengal		7397	0	147.1	44.9	0.6	456	0.0
Sikkim		81	0	1.0	1.0	0.0	24	0.0
NER	Arunachal Pradesh	75	0	1.2	1.1	0.1	18	0.0
	Assam	1722	14	31.5	27.3	0.6	138	0.0
	Manipur	194	1	2.5	2.4	0.1	22	0.0
	Meghalaya	297	0	5.5	-0.1	0.0	38	0.0
	Mizoram	90	0	1.6	1.3	0.1	8	0.0
	Nagaland	132	1	2.2	2.3	-0.3	7	0.0
	Tripura	279	3	4.5	5.4	-0.4	36	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.0	-1.2	-23.5
Day Peak (MW)	2320.0	-166.0	-1059.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	301.5	-286.7	129.2	-136.8	-7.2	0.0
Actual(MU)	294.6	-288.4	139.8	-141.3	-7.2	-2.5
O/D/U/D(MU)	-6.9	-1.7	10.6	-4.5	0.1	-2.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5771	16297	11042	3005	622	36736
State Sector	10899	18687	15034	4772	47	49439
Total	16670	34984	26076	7777	669	86175

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	520	1126	408	464	7	2525
Lignite	18	14	22	0	0	53
Hydro	331	22	105	137	29	626
Nuclear	26	33	19	0	0	79
Gas, Naptha & Diesel	23	82	16	0	25	146
RES (Wind, Solar, Biomass & Others)	78	70	152	4	0	304
Total	997	1346	723	606	61	3733

Share of RES in total generation (%)	7.85	5.18	21.01	0.71	0.03	8.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.76	9.24	38.25	23.41	47.96	27.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.086

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-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	D/C	0	1201	0.0	28.3	-28.3	
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.8	-9.8	
3	765 kV	GAYA-VARANASI	D/C	0	717	0.0	11.9	-11.9	
4	765 kV	SASARAM-FATEHPUR	S/C	95	128	0.0	0.9	-0.9	
5	765 kV	GAYA-BALIA	S/C	0	527	0.0	9.1	-9.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	290	0.0	6.1	-6.1	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	182	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	853	0.0	16.8	-16.8	
9	400 kV	PATNA-BALIA	Q/C	0	949	0.0	14.9	-14.9	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	406	0.0	7.8	-7.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	332	0.0	5.5	-5.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	3	223	0.0	2.0	-2.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	120	0.0	2.3	-2.3	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/W/C	30	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.4	118.9	-118.5
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1228	32194	21.7	0.0	21.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	823	0	12.8	0.0	12.8	
3	765 kV	JHARSUGUDA-DURG	D/C	87	97	0.0	0.1	-0.1	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	86	164	0.0	0.7	-0.7	
5	400 kV	RANCHI-SIPAT	D/C	286	0	4.3	0.0	4.3	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	131	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	D/C	136	0	2.0	0.0	2.0	
						ER-WR	40.7	2.8	37.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIWAKA B/B	D/C	0	694	0.0	13.1	-13.1	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1842	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2764	0.0	49.5	-49.5	
4	400 kV	TALCHER-I/C	D/C	0	450	0.0	2.8	-2.8	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	110.6	-110.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	21	341	0.0	2.4	-2.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	211	283	0.6	0.0	0.6	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	1	101	0.0	0.9	-0.9	
						ER-NER	0.6	3.3	-2.8
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	504	0.0	12.2	-12.2	
						NER-NR	0.0	12.2	-12.2
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	301	0.0	18.7	-18.7	
2	HVDC	VINDHYACHAL B/B	-	47	0	1.3	0.0	1.3	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	980	0.0	24.2	-24.2	
4	765 kV	GWALIOR-AGRA	D/C	0	2524	0.0	46.1	-46.1	
5	765 kV	PHAGI-GWALIOR	D/C	0	1289	0.0	25.1	-25.1	
6	765 kV	JABALPUR-ORAI	D/C	0	1066	0.0	35.5	-35.5	
7	765 kV	GWALIOR-ORAI	S/C	422	0	8.4	0.0	8.4	
8	765 kV	SATNA-ORAI	S/C	0	1486	0.0	32.0	-32.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1002	0.0	15.1	-15.1	
10	400 kV	ZERDA-KANKROLI	S/C	66	170	0.0	1.0	-1.0	
11	400 kV	ZERDA -BHINMAL	S/C	85	305	0.0	1.6	-1.6	
12	400 kV	VINDHYACHAL -RIHAND	S/C	973	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUALPUR	D/C	0	438	0.0	5.3	-5.3	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	S/C	0	115	0.0	1.7	-1.7	
16	220 kV	MEHGGAON-AURAIYA	S/C	87	0	0.3	0.1	0.2	
17	220 kV	MALANPUR-AURAIYA	S/C	53	30	0.9	0.0	0.9	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	33.3	207.8	-174.5
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	989	0.0	11.0	-11.0	
2	HVDC	RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	69	2102	0.0	28.4	-28.4	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2398	0.0	40.2	-40.2	
5	400 kV	KOLHAPUR-KUDGI	D/C	378	49	3.3	0.0	3.3	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	S/C	1	85	1.3	0.0	1.3	
						WR-SR	4.6	79.6	-75.0
<b>INTERNATIONAL EXCHANGES</b>									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)			
BHUTAN	ER	DAGACHU ( 2 * 63 )	0	0	0	0.0			
	ER	CHUKA ( 4 * 84 ) BIRPARA RECEIPT	373	0	338	8.1			
	ER	MANGDECHHU ( 4 x 180 ) ALIPURDUAR RECEIPT	775	0	656	15.8			
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1061	1056	1075	25.8			
	NER	132KV-SALAKATI - GELEPHU	52	0	48	1.2			
NEPAL	NER	132KV-RANGIA - DEOTHANG	60	0	48	1.2			
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-50	0	-18	-0.4			
	ER	132KV-BIHAR - NEPAL	-74	-4	-21	-0.5			
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-42	-4	-11	-0.3			
	ER	Bheramara HVDC(Bangladesh)	-939	-739	-866	-20.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	60	0	-56	-1.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	60	0	-56	-1.3			