



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 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., 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 28.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 28-जुलाई-2020 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 28th July 2020, 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-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)	61544	45004	36811	20986	2692	167037
Peak Shortage (MW)	454	0	0	0	101	555
Energy Met (MU)	1450	1089	897	445	51	3931
Hydro Gen (MU)	352	28	102	131	31	643
Wind Gen (MU)	48	75	92	-	-	215
Solar Gen (MU)*	45.07	24.40	64.53	4.25	0.02	138
Energy Shortage (MU)	9.9	0.0	0.0	0.0	2.1	12.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65510	47244	42503	20919	2774	169216
Time Of Maximum Demand Met (From NLDC SCADA)	23:06	15:58	09:50	00:00	19:11	12:34

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	0.037	0.00	0.93	8.46	9.39	81.78	8.83

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	12782	0	292.2	154.5	-1.2	31	0.0
	Haryana	9855	0	216.7	183.6	0.2	307	0.1
	Rajasthan	12255	0	266.5	80.8	-1.4	282	0.0
	Delhi	6101	0	117.5	102.2	-0.9	142	0.0
	UP	22039	0	443.9	217.3	-3.8	212	0.0
	Uttarakhand	1826	0	39.8	20.6	0.5	183	0.0
	HP	1330	0	25.3	-5.8	-0.9	171	0.0
	J&K(UT) & Ladakh(UT)	2260	565	41.2	18.5	-0.4	330	9.8
	Chandigarh	360	0	6.6	6.6	0.0	37	0.0
	Chhattisgarh	4382	0	102.4	46.4	-0.5	230	0.0
WR	Gujarat	14329	0	320.8	84.2	2.6	551	0.0
	MP	10169	0	231.9	133.0	-0.8	240	0.0
	Maharashtra	17653	0	385.9	133.3	-2.5	516	0.0
	Goa	421	0	8.8	8.9	-0.3	35	0.0
	DD	252	0	5.4	5.4	0.0	25	0.0
	DNH	640	0	14.3	14.3	0.0	91	0.0
	AMNSIL	851	0	19.4	7.5	0.3	289	0.0
	Andhra Pradesh	8296	0	167.2	75.5	6.0	1504	0.0
	Telangana	11177	0	211.9	108.3	1.1	1154	0.0
	Karnataka	8565	0	165.1	59.7	1.8	488	0.0
SR	Kerala	3135	0	66.0	44.7	0.8	189	0.0
	Tamil Nadu	12598	0	279.2	118.3	-5.9	581	0.0
	Puducherry	349	0	7.6	7.9	-0.4	26	0.0
	Bihar	5563	0	99.4	100.8	-1.8	396	0.0
	DVC	2835	0	63.0	-35.1	-0.2	238	0.0
	Jharkhand	1361	0	27.1	22.8	-0.8	147	0.0
	Odisha	4214	0	87.6	1.2	0.0	335	0.0
	West Bengal	7912	0	167.1	49.7	-0.4	520	0.0
	Sikkim	82	0	0.9	1.1	-0.2	7	0.0
	NER	Arunachal Pradesh	103	0	2.1	1.8	0.3	22
Assam		1780	61	32.1	27.4	0.1	104	2.0
Manipur		197	2	2.6	2.6	0.1	30	0.0
Meghalaya		290	0	5.2	0.4	-0.5	30	0.0
Mizoram		94	0	1.7	1.3	0.2	12	0.0
Nagaland		124	0	2.4	2.3	-0.1	16	0.0
Tripura		268	1	4.6	6.2	-0.3	46	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	50.4	-2.3	-25.8
Day Peak (MW)	2149.0	-201.9	-1105.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	348.5	-318.2	114.4	-139.4	-5.3	0.0
Actual(MU)	346.9	-322.1	122.5	-149.5	-7.0	-9.3
O/D/U/D(MU)	-1.7	-3.9	8.1	-10.1	-1.7	-9.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3959	13677	11122	1545	707	31009
State Sector	7864	23209	14170	5982	47	51272
Total	11823	36886	25292	7527	753	82281

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	584	1155	422	500	8	2669
Lignite	19	16	24	0	0	59
Hvdro	352	28	102	131	31	643
Nuclear	26	33	24	0	0	83
Gas, Naptha & Diesel	38	77	14	0	26	155
RES (Wind, Solar, Biomass & Others)	113	119	195	4	0	432
Total	1132	1428	781	636	64	4041
Share of RES in total generation (%)	10.02	8.35	24.94	0.68	0.03	10.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.42	12.60	41.07	21.28	47.90	28.67

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.058
Based on State Max Demands	1.102

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-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	D/C	0	1600	0.0	34.3	-34.3	
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.5	-9.5	
3	765 kV	GAYA-VARANASI	D/C	0	750	0.0	11.3	-11.3	
4	765 kV	SASARAM-FATEHPUR	S/C	121	184	0.0	0.3	-0.3	
5	765 kV	GAYA-BALIA	S/C	0	504	0.0	8.9	-8.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	282	0.0	5.9	-5.9	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	187	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	692	0.0	11.2	-11.2	
9	400 kV	PATNA-BALIA	O/C	0	837	0.0	16.1	-16.1	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	398	0.0	6.6	-6.6	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	316	0.0	5.6	-5.6	
12	400 kV	BIHARSHARIF-VARANASI	D/C	18	229	0.0	1.9	-1.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	117	0.0	2.2	-2.2	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5	
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	0.5	117.2	-116.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	678	41	7.4	0.0	7.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1088	0	17.2	0.0	17.2	
3	765 kV	JHARSUGUDA-DURG	D/C	49	241	0.0	1.9	-1.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	0	402	0.0	4.7	-4.7	
5	400 kV	RANCHI-SIPAT	D/C	339	0	5.6	0.0	5.6	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	113	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	D/C	103	0	1.4	0.0	1.4	
						ER-WR	31.5	8.2	23.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	540	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1828	0.0	45.4	-45.4	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2512	0.0	45.9	-45.9	
4	400 kV	TALCHER-J/C	D/C	263	152	0.0	0.2	-0.2	
5	220 kV	BALMELA-UPPER-SILERU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	103.7	-103.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	34	471	0.0	3.8	-3.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	331	376	0.5	0.0	0.5	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	131	0.0	1.2	-1.2	
						ER-NER	0.5	5.0	-4.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	704	0.0	14.3	-14.3	
						NER-NR	0.0	14.3	-14.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1502	0.0	49.3	-49.3	
2	HVDC	VINDHYACHAL B/B	-	272	153	2.9	0.4	2.5	
3	HVDC	MUNDRU-MOHINDERGARH	D/C	0	1917	0.0	42.8	-42.8	
4	765 kV	GWALIOR-AGRA	D/C	0	2806	0.0	51.0	-51.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	1377	0.0	23.3	-23.3	
6	765 kV	JABALPUR-ORAI	D/C	0	1120	0.0	41.0	-41.0	
7	765 kV	GWALIOR-ORAI	S/C	402	0	8.1	0.0	8.1	
8	765 kV	SATNA-ORAI	S/C	0	1539	0.0	31.9	-31.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1141	0.0	17.6	-17.6	
10	400 kV	ZERDA-KANKROLI	S/C	60	119	0.0	0.8	-0.8	
11	400 kV	ZERDA-BHINMAL	S/C	198	153	1.9	0.0	1.9	
12	400 kV	VINDHYACHAL-RIHAND	S/C	968	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	D/C	36	406	0.0	4.4	-4.4	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	0.9	-0.9	
15	220 kV	BHANPURA-MORAK	S/C	0	210	0.0	2.4	-2.4	
16	220 kV	MEHGAON-AURAIYA	S/C	106	0	0.5	0.0	0.5	
17	220 kV	MALANPUR-AURAIYA	S/C	73	5	1.2	0.0	1.2	
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	37.3	265.7	-228.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	17.7	-17.7	
2	HVDC	RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2103	0.0	25.4	-25.4	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2734	0.0	40.5	-40.5	
5	400 kV	KOLHAPUR-KUDGI	D/C	764	0	11.9	0.0	11.9	
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	0	90	1.5	0.0	1.5	
						WR-SR	13.4	83.7	-70.3

INTERNATIONAL EXCHANGES

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	359	0	320	7.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	586	583	604	14.5
	ER	TALA (6 * 170) BINAGURI RECEIPT	1067	1060	1068	25.6
	NER	132KV-SALAKATI - GELEPHU	69	0	53	1.3
NEPAL	NER	132KV-RANGIA - DEOTHANG	68	0	58	1.4
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-57	0	-32	-0.8
	ER	132KV-BIHAR - NEPAL	-108	-49	-54	-1.3
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-37	6	-10	-0.3
	ER	Bheramara HVDC(Bangladesh)	-943	-935	-936	-22.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-70	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-70	-1.7