



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: 04th 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 03.07.2020.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 03rd 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: 04-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)	61135	41932	33378	21513	2687	160645
Peak Shortage (MW)	1254	0	0	0	168	1422
Energy Met (MU)	1520	1029	825	466	50	3890
Hydro Gen (MU)	364	46	56	151	31	647
Wind Gen (MU)	39	75	190	-	-	305
Solar Gen (MU)*	40.24	23.10	65.73	4.61	0.03	134
Energy Shortage (MU)	13.6	0.0	0.0	0.0	2.1	15.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67114	44579	37625	22255	2701	168346
Time Of Maximum Demand Met (From NLDC SCADA)	00:14	14:30	12:44	23:12	19:25	14:26

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	0.032	0.00	0.08	7.24	7.33	81.76	10.91

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	13061	0	301.6	148.7	-0.9	108	0.0
	Haryana	10877	0	240.7	173.8	0.4	263	0.0
	Rajasthan	13034	0	273.0	97.4	2.7	421	0.0
	Delhi	6291	0	128.0	107.2	-2.2	309	0.0
	UP	21984	440	452.1	215.5	2.9	843	2.9
	Uttarakhand	2030	0	42.5	18.4	2.1	320	0.0
	HP	1467	0	29.7	-1.9	0.8	120	0.0
	J&K(UT) & Ladakh(UT)	2240	560	44.9	20.4	1.5	352	10.7
	Chandigarh	374	0	7.2	6.8	0.3	38	0.0
	Chhattisgarh	4011	0	97.1	43.1	1.5	655	0.0
WR	Gujarat	15741	0	323.0	88.0	2.1	555	0.0
	MP	8416	0	191.9	104.7	-1.4	579	0.0
	Maharashtra	17009	0	372.9	133.5	-1.9	650	0.0
	Goa	401	0	8.3	8.3	-0.3	35	0.0
	DD	253	0	5.4	5.1	0.3	33	0.0
	DNH	582	0	13.3	13.3	0.0	33	0.0
	AMNSIL	803	0	17.4	6.8	0.4	257	0.0
SR	Andhra Pradesh	7200	0	153.3	34.4	-0.7	508	0.0
	Telangana	8455	0	170.7	88.8	0.9	505	0.0
	Karnataka	8660	0	161.2	24.6	-2.3	550	0.0
	Kerala	2904	0	62.1	50.1	0.1	186	0.0
	Tamil Nadu	12163	0	270.0	113.5	-2.8	545	0.0
	Puducherry	358	0	7.3	7.7	-0.3	47	0.0
ER	Bihar	5552	0	107.3	102.0	-1.0	200	0.0
	DVC	2837	0	62.2	-43.3	-0.5	330	0.0
	Jharkhand	1421	0	26.6	20.1	-2.4	120	0.0
	Odisha	4379	0	94.5	10.5	0.1	397	0.0
	West Bengal	8457	0	174.2	55.4	1.0	285	0.0
NER	Sikkim	96	0	1.3	1.3	0.0	20	0.0
	Arunachal Pradesh	107	0	2.0	1.8	0.2	22	0.0
	Assam	1716	127	31.1	25.9	0.4	126	2.0
	Manipur	187	1	2.6	2.5	0.1	48	0.0
	Meghalaya	312	0	5.2	-0.7	-0.6	45	0.0
	Mizoram	96	0	1.7	1.2	0.2	12	0.0
	Nagaland	116	1	2.4	2.3	-0.3	23	0.0
	Tripura	292	1	5.0	5.1	0.0	67	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.8	-1.4	-25.6
Day Peak (MW)	2367.0	-265.9	-1106.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	362.2	-313.8	70.2	-113.5	-5.2	0.0
Actual(MU)	379.3	-338.5	36.0	-105.1	-5.3	-33.6
O/D/U/D(MU)	17.1	-24.7	-34.2	8.4	-0.1	-33.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5203	14494	12232	3440	578	35947
State Sector	7544	23793	14813	4642	47	50839
Total	12747	38287	27045	8082	625	86786

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	616	1074	355	461	10	2516
Lignite	26	11	14	0	0	52
Hvdro	364	46	56	151	31	647
Nuclear	26	31	47	0	0	105
Gas, Naptha & Diesel	29	86	20	0	20	156
RES (Wind, Solar, Biomass & Others)	99	107	308	5	0	519
Total	1160	1357	800	617	61	3994
Share of RES in total generation (%)	8.55	7.90	38.45	0.75	0.05	12.99
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.15	13.62	51.34	25.19	50.43	31.80

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.092

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: 04-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	-	0	1002	0.0	24.1	-24.1	
2	HVDC	PUSAULI B/B	S/C	0	399	0.0	9.4	-9.4	
3	765 kV	GAYA-VARANASI	D/C	0	885	0.0	15.4	-15.4	
4	765 kV	SASARAM-FATEHPUR	S/C	223	35	1.9	0.0	1.9	
5	765 kV	GAYA-BALIA	S/C	0	579	0.0	6.3	-6.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	264	0.0	5.4	-5.4	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	197	0.0	3.8	-3.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	957	0.0	17.4	-17.4	
9	400 kV	PATNA-BALIA	O/C	0	1029	0.0	19.0	-19.0	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	480	0.0	8.8	-8.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	330	0.0	5.0	-5.0	
12	400 kV	BIHARSHARIF-VARANASI	D/C	18	229	0.0	3.2	-3.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	117	0.0	2.1	-2.1	
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	0.3	0.0	0.3	
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	2.2	119.8	-117.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	996	98	7.5	0.0	7.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1177	0	17.8	0.0	17.8	
3	765 kV	JHARSUGUDA-DURG	D/C	287	109	1.2	0.0	1.2	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	130	285	0.0	1.7	-1.7	
5	400 kV	RANCHI-SIPAT	D/C	393	0	6.1	0.0	6.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	136	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	176	0	1.8	0.0	1.8	
						ER-WR	34.4	3.7	30.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	321	0.0	7.2	-7.2	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1827	0.0	26.3	-26.3	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2182	0.0	30.1	-30.1	
4	400 kV	TALCHER-J/C	D/C	921	116	18.8	0.0	18.8	
5	220 kV	BALMELA-UPPER-SILERU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	63.6	-63.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	18	434	0.0	3.4	-3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	126	557	0.0	2.7	-2.7	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	137	0.0	1.3	-1.3	
						ER-NER	0.0	7.3	-7.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	705	0.0	14.7	-14.7	
						NER-NR	0.0	14.7	-14.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1755	0.0	69.1	-69.1	
2	HVDC	V'CHAL B/B	D/C	0	483	0.0	3.4	-3.4	
3	HVDC	APL -MHG	D/C	0	1916	0.0	43.9	-43.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2992	0.0	51.2	-51.2	
5	765 kV	PHAGI-GWALIOR	D/C	0	1454	0.0	25.9	-25.9	
6	765 kV	JABALPUR-ORAI	D/C	0	1180	0.0	40.7	-40.7	
7	765 kV	GWALIOR-ORAI	S/C	490	0	8.9	0.0	8.9	
8	765 kV	SATNA-ORAI	S/C	0	1574	0.0	31.7	-31.7	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1060	0.0	14.6	-14.6	
10	400 kV	ZERDA-KANKROLI	S/C	68	163	0.0	0.8	-0.8	
11	400 kV	ZERDA -BHINMAL	S/C	200	199	0.0	1.2	-1.2	
12	400 kV	V'CHAL -RIHAND	S/C	755	0	16.8	0.0	16.8	
13	400 kV	RAPP-SHUJALPUR	D/C	0	617	0.0	6.8	-6.8	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	2.0	-2.0	
15	220 kV	BHANPURA-MORAK	S/C	0	118	0.0	2.1	-2.1	
16	220 kV	MEHGAON-AURAIYA	S/C	70	22	0.1	0.5	-0.5	
17	220 kV	MALANPUR-AURAIYA	S/C	34	50	0.3	0.1	0.2	
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	26.0	294.0	-268.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.1	-12.1	
2	HVDC	BARSUR-L-SILERU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
4	765 kV	SOLAPUR-RAICHUR	D/C	807	1476	4.5	5.8	-1.3	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	1932	0.0	40.4	-40.4	
6	400 kV	KOLHAPUR-KUDGI	D/C	1022	0	16.0	0.0	16.0	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	0	87	1.4	0.0	1.4	
						WR-SR	21.9	58.2	-36.3

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	329	274	258	6.2
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	783	762	860	20.7
	ER	TALA (6 * 170) BINAGURI RECEIPT	1051	1049	1053	25.3
	NER	132KV-SALAKATI - GELEPHU	51	0	34	0.8
NEPAL	NER	132KV-RANGIA - DEOTHANG	61	0	38	0.9
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-26	0	-12	-0.3
	ER	132KV-BIHAR - NEPAL	-112	0	-19	-0.5
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-128	0	-27	-0.7
	ER	Bheramara HVDC(Bangladesh)	-940	-925	-932	-22.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-67	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-67	-1.6