



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: 23rd July 2018

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- महाप्रबंधक, ऊ.क्षे.भा.प्रे.के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
General Manager, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- महाप्रबंधक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 22.07.2018.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स-5.5.1 के प्रावधान के अनुसार, दिनांक 22-जुलाई-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट राभाप्रेके 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 22nd July 2018, 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

23-Jul-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	48122	39461	37244	17230	2570	144627
Peak Shortage (MW)	759	7	0	0	30	796
Energy Met (MU)	1101	916	868	380	49	3315
Hydro Gen (MU)	334	17	91	87	24	554
Wind Gen (MU)	32	154	223	-----	-----	409
Solar Gen (MU)*	12.21	8.79	39.78	0.27	0.02	61
Energy Shortage (MU)	9.4	0.3	0.0	0.0	1.1	10.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	51233 21:13	41129 09:37	38508 07:48	18788 21:26	2479 19:38	149966 21:46

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	0.029	0.00	0.00	2.87	2.87	72.41	24.72

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	9640	0	216.2	133.5	-0.2	115	0.0	
	Haryana	7705	0	154.6	127.0	0.7	291	0.0	
	Rajasthan	7361	0	152.8	37.5	-0.3	381	0.0	
	Delhi	4996	0	101.3	83.5	-2.7	66	0.0	
	UP	17282	0	365.6	186.8	0.7	305	0.0	
	Uttarakhand	1817	0	40.9	22.8	-1.1	86	0.0	
	HP	761	0	25.2	-5.2	3.4	196	0.0	
	J&K	2260	399	39.5	17.6	-3.5	586	9.4	
	Chandigarh	247	0	4.8	5.7	-0.9	8	0.0	
	WR	Chhattisgarh	3202	0	72.5	11.8	-3.0	318	0.0
Gujarat		11569	0	262.7	54.1	1.9	479	0.0	
MP		7292	0	157.9	75.9	-1.8	440	0.0	
Maharashtra		17053	4	378.6	86.1	-4.3	431	0.1	
Goa		486	0	9.6	8.5	0.4	43	0.3	
DD		304	0	6.8	5.8	1.0	77	0.0	
DNH		743	0	17.4	16.8	0.7	81	0.0	
Essar steel		560	0	11.1	10.7	0.4	268	0.0	
SR		Andhra Pradesh	7347	0	165.8	11.8	2.3	502	0.0
		Telangana	8098	0	175.1	75.9	0.6	531	0.0
	Karnataka	7825	0	162.8	44.5	-0.6	450	0.0	
	Kerala	3004	0	57.8	25.1	0.4	318	0.0	
	Tamil Nadu	13058	0	299.3	92.6	-0.1	653	0.0	
	Pondy	355	0	7.4	7.5	-0.1	18	0.0	
ER	Bihar	4694	0	84.3	83.3	0.8	345	0.0	
	DVC	2905	0	66.8	-23.5	1.4	365	0.0	
	Jharkhand	951	0	19.1	17.2	-2.6	135	0.0	
	Odisha	3793	0	68.6	35.8	1.2	395	0.0	
	West Bengal	7420	0	140.2	34.2	1.3	403	0.0	
	Sikkim	73	0	1.5	1.3	0.1	20	0.0	
NER	Arunachal Pradesh	100	6	2.0	2.5	-0.5	14	0.0	
	Assam	1642	60	31.5	26.9	-0.3	184	1.0	
	Manipur	154	12	2.1	2.5	-0.4	21	0.0	
	Meghalaya	311	0	5.5	1.5	-0.4	31	0.0	
	Mizoram	78	3	1.7	0.9	0.1	3	0.0	
	Nagaland	110	3	2.1	2.2	-0.4	4	0.0	
	Tripura	258	2	4.5	4.3	-0.8	11	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	32.0	-6.0	-14.6
Day peak (MW)	1495.3	-340.7	-639.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	243.4	-221.2	25.3	-53.2	4.0	-1.7
Actual(MU)	240.1	-224.7	28.4	-48.2	-1.4	-5.8
O/D/U/D(MU)	-3.3	-3.5	3.1	5.0	-5.4	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4689	16247	9292	1185	77	31490
State Sector	11325	17885	12010	4995	50	46265
Total	16014	34132	21302	6180	127	77754

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	445	905	388	361	7	2107
Hydro	334	17	93	87	24	556
Nuclear	27	30	45	0	0	103
Gas, Naptha & Diesel	20	37	24	0	23	103
RES (Wind, Solar, Biomass & Others)	57	162	297	0	0	517
Total	884	1152	848	449	54	3386

Share of RES in total generation (%)	6.46	14.11	35.06	0.10	0.05	15.27
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	47.37	18.21	51.37	19.53	44.87	34.73

H. Diversity Factor

All India Demand Diversity Factor	1.014
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Diversity factor = Sum of regional maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Date of Reporting : 23-Jul-18

Import=(+ve)
/Export =(-ve)
for NET (MU)

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	765kV	GAYA-VARANASI	D/C	0	587	0.0	10.1	-10.1	
2		SASARAM-FATEHPUR	S/C	123	88	0.6	0.0	0.6	
3		GAYA-BALIA	S/C	0	467	0.0	9.0	-9.0	
4		ALIPURDUAR-AGRA	-	0	309	0.0	7.5	-7.5	
5	HVDC	PUSAULI B/B	S/C	0	148	0.0	3.7	-3.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	108	0.0	0.0	0.0	
7		PUSAULI -ALLAHABAD	S/C	0	97	0.0	0.0	0.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	830	0.0	16.0	-16.0	
9		PATNA-BALIA	Q/C	0	807	0.0	16.2	-16.2	
10		BIHARSHARIFF-BALIA	D/C	0	444	0.0	9.5	-9.5	
11		MOTIHARI-GORAKHPUR	D/C	272	1	4.9	0.0	4.9	
12		BIHARSHARIFF-VARANASI	D/C	895	0	0.0	4.6	-4.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	153	0.0	3.2	-3.2	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	35	0	0.2	0.0	0.2	
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
ER-NR						5.7	79.7	-74.0	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	861	7	14.8	0.0	14.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	837	0	16.8	0.0	16.8	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1030	0	19.0	0.0	19.0	
21		RANCHI-SIPAT	D/C	446	0	9.0	0.0	9.0	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	162	0	2.1	0.0	2.1	
23		BUDHIPADAR-KORBA	D/C	165	0	3.0	0.0	3.0	
ER-WR						64.7	0.0	64.7	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	977.9	0.0	12.0	-12.0	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	425.0	0.0	9.9	-9.9	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1485.2	0.0	25.3	-25.3	
27	400 kV	TALCHER-I/C	D/C	838.3	0.8	0.0	14.4	-14.4	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	47.2	-47.2	
Import/Export of ER (With NER)									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	393	0.0	5.6	-6	
30		ALIPURDUAR-BONGAIGAON	D/C	42	268	0.0	2.7	-3	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	117	0.0	5.0	-5	
ER-NER						0.0	13.4	-13.4	
Import/Export of NER (With NR)									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	702	0.0	13.9	-13.9	
NER-NR						0.0	13.9	-13.9	
Import/Export of WR (With NR)									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1002	0.0	13.9	-13.9	
34		V'CHAL B/B	D/C	241	0	6.1	0.0	6.1	
35		APL -MHG	D/C	0	1443	0.0	22.7	-22.7	
36		GWALIOR-AGRA	D/C	0	1347	0.0	50.2	-50.2	
37	765 kV	PHAGI-GWALIOR	D/C	0	1429	0.0	33.7	-33.7	
38		JABALPUR-ORAI	D/C	0	675	0.0	27.0	-27.0	
39		GWALIOR-ORAI	S/C	367	0	0.0	35.5	-35.5	
40		SATNA-ORAI	S/C	0	1744	9.8	0.0	9.8	
41		400 kV	ZERDA-KANKROLI	S/C	152	173	0.0	0.4	-0.4
42			ZERDA -BHINMAL	S/C	209	166	0.2	0.0	0.2
43			V'CHAL -RIHAND	S/C	955	0	16.7	0.0	16.7
44	RAPP-SHUJALPUR		D/C	123	340	0	1	-1	
45	220 kV	BADOD-KOTA	S/C	23	58	0.1	0.8	-0.7	
46		BADOD-MORAK	S/C	0	60	0.0	1.4	-1.4	
47		MEHGAON-AURAIYA	S/C	0	32	0.0	0.0	0.0	
48	132kV	MALANPUR-AURAIYA	S/C	0	54	0.0	0.9	-0.9	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						32.9	187.7	-154.8	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	97	0	0.0	2.5	-2.5	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	811	666	3.2	0.0	3.2	
53		WARDHA-NIZAMABAD	D/C	0	1607	0.0	21.2	-21.2	
54	400 kV	KOLHAPUR-KUDGI	D/C	739	0	10.2	0.0	10.2	
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56		PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
WR-SR						13.4	23.7	-10.2	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						32.0	
59		NEPAL						-6.0	
60		BANGLADESH						-14.6	