



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पाँवर 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: 22nd July 2018

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
2. 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
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. 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 21.07.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-जुलाई-2018 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 21st 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

22-Jul-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	50098	42623	39494	18368	2603	153186
Peak Shortage (MW)	638	0	50	0	162	850
Energy Met (MU)	1187	956	895	418	48	3504
Hydro Gen (MU)	336	17	98	83	22	556
Wind Gen (MU)	25	133	229	-----	-----	387
Solar Gen (MU)*	13.89	10.44	41.18	0.43	0.01	66
Energy Shortage (MU)	14.5	0.3	0.0	0.0	2.5	17.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	54430 00:21	43930 19:41	40609 07:21	20169 00:05	2561 20:12	157861 19:56

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	0.025	0.00	0.00	3.29	3.29	83.51	13.21

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	10516	0	238.7	136.7	-0.6	307	0.0
	Haryana	8672	0	188.8	148.1	0.4	690	0.0
	Rajasthan	7577	0	170.2	51.5	0.9	152	0.0
	Delhi	5562	0	112.9	91.3	-1.4	278	0.0
	UP	17528	0	355.8	187.8	0.6	78	0.0
	Uttarakhand	2014	0	43.4	27.4	-0.2	326	0.5
	HP	989	0	29.3	-2.2	4.5	307	0.0
	J&K	2292	404	42.2	20.2	-3.6	589	14.0
WR	Chhattisgarh	276	0	5.5	6.2	-0.7	0	0.0
	Chhattisgarh	3474	0	76.1	13.8	-4.1	157	0.0
	Gujarat	12335	0	272.7	52.5	5.4	495	0.0
	MP	7696	0	169.6	81.4	0.1	431	0.0
	Maharashtra	17606	0	391.1	81.9	1.8	648	0.0
	Goa	486	0	9.6	9.0	-0.1	78	0.3
	DD	327	0	7.2	6.6	0.6	97	0.0
	DNH	755	0	17.7	17.0	0.7	73	0.0
SR	Essar steel	605	0	11.9	12.9	-1.0	166	0.0
	Andhra Pradesh	7425	0	166.6	9.8	2.9	758	0.0
	Telangana	8123	0	171.1	71.1	0.8	860	0.0
	Karnataka	8322	0	171.5	45.4	0.8	412	0.0
	Kerala	3103	0	62.3	29.5	0.7	191	0.0
	Tamil Nadu	14233	0	315.7	94.6	0.2	477	0.0
	Pondy	349	0	7.9	8.0	-0.1	58	0.0
	ER	Bihar	4655	0	90.5	89.8	-1.4	325
DVC		2901	0	68.0	-27.3	1.2	365	0.0
Jharkhand		1061	0	23.9	18.8	0.7	145	0.0
Odisha		3405	0	65.9	32.3	0.9	398	0.0
West Bengal		8440	0	168.2	62.4	-0.8	402	0.0
NER	Sikkim	89	0	1.5	1.3	0.1	20	0.0
	Arunachal Pradesh	98	2	1.9	2.3	-0.4	0	0.0
	Assam	1642	125	29.9	25.8	0.1	114	2.4
	Manipur	165	1	2.2	2.5	-0.3	10	0.0
	Meghalaya	311	0	5.6	1.7	-0.4	35	0.0
	Mizoram	87	1	1.6	0.8	0.1	8	0.0
	Nagaland	112	2	2.1	2.2	-0.4	6	0.0
	Tripura	240	7	4.9	4.3	-0.5	1	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	31.6	-5.8	-14.5
Day peak (MW)	1466.3	-322.0	-643.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	277.5	-264.8	17.2	-35.8	3.9	-2.2
Actual(MU)	277.5	-264.8	20.6	-35.0	-1.3	-3.0
O/D/U/D(MU)	0.0	0.0	3.5	0.9	-5.2	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4609	15012	9292	1185	102	30200
State Sector	9685	16350	10760	5495	50	42340
Total	14294	31362	20052	6680	152	72539

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	495	1002	417	390	7	2312
Hydro	336	17	100	83	22	558
Nuclear	27	30	38	0	0	95
Gas, Naptha & Diesel	22	39	22	0	24	106
RES (Wind, Solar, Biomass & Others)	52	143	307	1	0	503
Total	932	1231	884	474	53	3574

Share of RES in total generation (%)	5.55	11.65	34.72	0.12	0.07	14.06
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	44.51	15.48	50.31	17.62	42.06	32.34

H. Diversity Factor

All India Demand Diversity Factor	1.024
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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 : 22-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	671	0.0	9.7	-9.7
2		SASARAM-FATEHPUR	S/C	174	115	0.4	0.0	0.4
3		GAYA-BALIA	S/C	0	449	0.0	8.5	-8.5
4		ALIPURDUAR-AGRA	-	0	350	0.0	7.4	-7.4
5	HVDC	PUSAULI B/B	S/C	0	148	0.0	3.6	-3.6
6	400 kV	PUSAULI-VARANASI	S/C	0	122	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	0	109	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	657	0.0	12.6	-12.6
9		PATNA-BALIA	Q/C	0	844	0.0	15.8	-15.8
10		BIHARSHARIFF-BALIA	D/C	0	501	0.0	8.7	-8.7
11		MOTIHARI-GORAKHPUR	D/C	311	11	3.7	0.0	3.7
12		BIHARSHARIFF-VARANASI	D/C	887	0	0.0	3.1	-3.1
13	220 kV	PUSAULI-SAHUPURI	S/C	0	192	0.0	3.5	-3.5
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	35	0	0.3	0.0	0.3
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						4.4	72.9	-68.4
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	726	4	9.4	0.0	9.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	837	0	20.4	0.0	20.4
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1346	0	20.9	0.0	20.9
21		RANCHI-SIPAT	D/C	490	0	8.7	0.0	8.7
22	220 kV	BUDHIPADAR-RAIGARH	S/C	135	0	1.6	0.0	1.6
23		BUDHIPADAR-KORBA	D/C	162	0	3.0	0.0	3.0
ER-WR						64.0	0.0	64.0
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1040.8	0.0	12.0	-12.0
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	489.1	0.0	10.0	-10.0
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1188.4	0.0	20.3	-20.3
27	400 kV	TALCHER-1/C	D/C	816.7	0.8	0.0	12.8	-12.8
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
ER-SR						0.0	42.2	-42.2
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	380	0.0	6.5	-7
30		ALIPURDUAR-BONGAIGAON	D/C	60	268	0.0	3.8	-4
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	118	0.0	1.5	-2
ER-NER						0.0	11.9	-11.9
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	15.3	-15.3
NER-NR						0.0	15.3	-15.3
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	29.0	-29.0
34		V'CHAL B/B	D/C	0	0	5.2	0.1	5.1
35		APL -MHG	D/C	0	0	0.0	36.6	-36.6
36		GWALIOR-AGRA	D/C	0	0	0.0	57.6	-57.6
37	765 kV	PHAGI-GWALIOR	D/C	0	0	0.0	28.3	-28.3
38		JABALPUR-ORAI	D/C	0	0	0.0	31.2	-31.2
39		GWALIOR-ORAI	S/C	0	0	7.6	0.0	7.6
40		SATNA-ORAI	S/C	0	0	0.0	39.8	-39.8
41		ZERDA-KANKROLI	S/C	0	0	0.0	0.7	-0.7
42	400 kV	ZERDA -BHINMAL	S/C	0	0	0.0	0.4	-0.4
43		V'CHAL -RIHAND	S/C	0	0	21.0	0.0	21.0
44		RAPP-SHUJALPUR	D/C	0	0	0	2	-2
45	220 kV	BADOD-KOTA	S/C	0	0	0.1	0.6	-0.6
46		BADOD-MORAK	S/C	0	0	0.0	1.4	-1.4
47		MEHGAON-AURAIYA	S/C	0	0	0.0	0.4	-0.4
48	132kV	MALANPUR-AURAIYA	S/C	0	0	0.0	1.1	-1.1
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						33.9	229.4	-195.5
Import/Export of WR (With SR)								
50	HVDC	BHADRAWATI B/B	-	0	0	1.5	3.9	-2.5
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	0	0	5.3	0.0	5.3
53		WARDHA-NIZAMABAD	D/C	0	0	0.0	17.1	-17.1
54	400 kV	KOLHAPUR-KUDGI	D/C	0	0	9.7	0.0	9.7
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						16.4	21.0	-4.5
TRANSNATIONAL EXCHANGE								
58		BHUTAN						31.6
59		NEPAL						-5.8
60		BANGLADESH						-14.5