



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: 21st 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., डोंगतिह, 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 20.07.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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

21-Jul-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	53887	42506	39790	19992	2596	158771
Peak Shortage (MW)	870	0	0	0	271	1141
Energy Met (MU)	1262	958	904	460	55	3639
Hydro Gen (MU)	335	18	96	92	23	563
Wind Gen (MU)	16	112	245	-----	-----	374
Solar Gen (MU)*	12.33	8.53	36.92	0.64	0.02	58
Energy Shortage (MU)	10.5	0.3	0.1	1.2	1.6	13.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	57035 21:15	43933 19:49	41775 07:33	21479 00:00	2609 19:03	162639 19:46

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	0.026	0.00	0.00	3.44	3.44	83.25	13.31

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	10912	0	246.3	136.1	-0.4	78	0.0	
	Haryana	9145	0	191.5	147.2	1.1	267	0.0	
	Rajasthan	8008	0	171.4	58.7	0.4	334	0.0	
	Delhi	6034	0	123.0	94.5	-2.6	154	0.0	
	UP	18635	410	406.2	200.9	1.1	265	0.0	
	Uttarakhand	2029	0	45.3	25.2	1.0	368	0.5	
	HP	1450	0	30.4	-1.3	5.0	258	0.0	
	J&K	2049	512	41.9	20.3	-4.0	0	10.0	
	Chandigarh	323	0	6.1	6.3	-0.2	32	0.0	
	WR	Chhattisgarh	3646	0	82.4	16.2	-0.9	997	0.0
Gujarat		12472	0	271.5	60.4	2.5	782	0.0	
MP		7811	0	167.9	81.7	-0.3	348	0.0	
Maharashtra		17803	0	389.5	90.9	-2.3	409	0.0	
Goa		486	0	9.6	9.0	-0.1	32	0.3	
DD		333	0	7.4	6.3	1.1	91	0.0	
DNH		752	0	17.6	16.6	1.0	97	0.0	
Essar steel		642	0	12.0	12.6	-0.6	210	0.0	
SR		Andhra Pradesh	7579	0	169.5	9.2	1.2	559	0.0
		Telangana	8106	0	171.7	75.9	-0.5	488	0.0
	Karnataka	8972	0	173.3	45.5	0.9	536	0.0	
	Kerala	3150	0	61.3	26.9	1.0	303	0.0	
	Tamil Nadu	14566	0	320.1	93.3	-2.1	327	0.0	
	Pondy	377	0	7.9	8.0	-0.1	55	0.1	
ER	Bihar	4965	0	101.2	98.7	0.2	250	0.0	
	DVC	3002	0	69.1	-29.3	2.0	225	0.0	
	Jharkhand	1121	0	22.5	20.9	-2.3	85	0.0	
	Odisha	3928	0	78.5	38.3	1.8	250	1.2	
	West Bengal	8913	0	187.9	69.8	2.6	250	0.0	
	Sikkim	83	0	1.1	1.3	-0.2	15	0.0	
NER	Arunachal Pradesh	109	3	2.0	2.3	-0.3	0	0.0	
	Assam	1630	230	35.9	30.2	1.4	114	1.4	
	Manipur	168	2	2.3	2.4	-0.1	10	0.1	
	Meghalaya	299	0	5.5	1.5	0.0	35	0.0	
	Mizoram	88	0	1.5	1.1	-0.2	8	0.0	
	Nagaland	112	4	2.1	1.9	-0.1	6	0.0	
	Tripura	265	6	5.4	4.1	-0.2	1	0.1	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	32.1	-7.8	-14.2
Day peak (MW)	1499.3	-248.0	-623.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	291.0	-271.5	15.2	-37.6	4.0	1.1
Actual(MU)	291.9	-254.3	9.9	-46.9	1.5	2.1
O/D/U/D(MU)	0.9	17.2	-5.3	-9.3	-2.5	1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4309	15587	9482	1380	77	30835
State Sector	9685	17075	10700	5705	50	43215
Total	13994	32662	20182	7085	127	74049

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	560	1036	429	418	9	2452
Hydro	335	18	98	92	23	565
Nuclear	27	30	39	0	0	96
Gas, Naptha & Diesel	30	43	24	0	25	121
RES (Wind, Solar, Biomass & Others)	41	121	317	1	0	480
Total	993	1247	907	511	56	3715

Share of RES in total generation (%)	4.16	9.68	34.99	0.17	0.07	12.93
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	40.63	13.53	50.02	18.17	40.02	30.72

H. Diversity Factor

All India Demand Diversity Factor	1.026
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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 : 21-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	489	0.0	6.8	-6.8
2		SASARAM-FATEHPUR	S/C	232	4	2.8	0.0	2.8
3		GAYA-BALIA	S/C	0	418	0.0	7.3	-7.3
4	HVDC	ALIPURDUAR-AGRA	-	0	684	0.0	11.7	-11.7
5		PUSAULI B/B	S/C	0	146	0.0	3.7	-3.7
6	400 kV	PUSAULI-VARANASI	S/C	0	142	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	0	67	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	703	0.0	12.2	-12.2
9		PATNA-BALIA	Q/C	0	909	0.0	16.3	-16.3
10		BIHARSHARIFF-BALIA	D/C	0	336	0.0	5.8	-5.8
11		MOTIHARI-GORAKHPUR	D/C	309	11	5.2	0.0	5.2
12		BIHARSHARIFF-VARANASI	D/C	839	0	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	202	0.0	4.0	-4.0
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						8.3	69.1	-60.8
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	835	1	20.5	0.0	20.5
19		NEW RANCHI-DHARAMJAIGARH	D/C	1147	0	20.7	0.0	20.7
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1173	0	22.5	0.0	22.5
21		RANCHI-SIPAT	D/C	518	0	8.3	0.0	8.3
22	220 kV	BUDHIPADAR-RAIGARH	S/C	156	12	1.7	0.0	1.7
23		BUDHIPADAR-KORBA	D/C	185	0	3.5	0.0	3.5
ER-WR						77.1	0.0	77.1
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	200.7	922.9	0.0	6.5	-6.5
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	494.5	0.0	10.0	-10.0
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1188.6	0.0	21.7	-21.7
27	400 kV	TALCHER-I/C	D/C	939.7	0.8	0.0	15.1	-15.1
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
ER-SR						0.0	38.2	-38.2
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	440	0.0	8.0	-8
30		ALIPURDUAR-BONGAIGAON	D/C	17	313	0.0	2.8	-3
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	146	0.0	2.2	-2
ER-NER						0.0	13.0	-13.0
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	13.8	-13.8
NER-NR						0.0	13.8	-13.8
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	43.8	-43.8
34		V'CHAL B/B	D/C	0	0	2.5	2.0	0.5
35		APL -MHG	D/C	0	0	0.0	43.1	-43.1
36		GWALIOR-AGRA	D/C	0	0	0.0	57.3	-57.3
37	765 kV	PHAGI-GWALIOR	D/C	0	0	0.0	27.9	-27.9
38		JABALPUR-ORAI	D/C	0	0	0.0	29.5	-29.5
39		GWALIOR-ORAI	S/C	0	0	8.0	0.0	8.0
40		SATNA-ORAI	S/C	0	0	0.0	39.5	-39.5
41		ZERDA-KANKROLI	S/C	0	0	0.0	0.2	-0.2
42	400 kV	ZERDA -BHINMAL	S/C	0	0	0.2	0.0	0.2
43		V'CHAL -RIHAND	S/C	0	0	21.7	0.0	21.7
44		RAPP-SHUJALPUR	D/C	0	0	0	2	-2
45	220 kV	BADOD-KOTA	S/C	0	0	0.2	0.4	-0.2
46		BADOD-MORAK	S/C	0	0	0.0	1.1	-1.1
47		MEHGAON-AURAIYA	S/C	0	0	0.0	0.5	-0.4
48	132kV	MALANPUR-AURAIYA	S/C	0	0	0.0	1.0	-1.0
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						32.7	248.5	-215.9
Import/Export of WR (With SR)								
50	HVDC	BHADRAWATI B/B	-	0	0	0.0	9.6	-9.6
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	0	0	15.6	0.0	15.6
53		WARDHA-NIZAMABAD	D/C	0	0	0.0	10.5	-10.5
54	400 kV	KOLHAPUR-KUDGI	D/C	0	0	12.4	0.0	12.4
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						27.9	20.0	7.9
TRANSNATIONAL EXCHANGE								
58		BHUTAN						32.1
59		NEPAL						-7.8
60		BANGLADESH						-14.2