



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: 30<sup>th</sup> 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 29.07.2018.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-जुलाई-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 29<sup>th</sup> 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

30-Jul-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	46955	42088	40183	19121	2623	150970
Peak Shortage (MW)	887	197	0	0	71	1155
Energy Met (MU)	1060	988	937	413	49	3447
Hydro Gen (MU)	323	21	106		25	578
Wind Gen (MU)	34	128	195	-----	-----	357
Solar Gen (MU)*	17.95	13.74	46.55	0.45	0.02	79
Energy Shortage (MU)	10.3	0.6	0.0	0.0	1.0	11.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	50202 21:25	44826 20:27	41341 07:43	20104 20:37	2610 18:53	158031 20:27

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	0.034	0.00	0.58	6.35	6.93	83.94	9.13

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	9275	0	212.5	136.3	-0.9	113	0.0	
	Haryana	7665	0	152.0	135.3	1.1	223	0.0	
	Rajasthan	9009	0	198.9	72.2	1.1	310	0.0	
	Delhi	5290	0	94.6	84.7	-0.7	320	0.0	
	UP	14739	0	300.3	167.4	0.8	315	0.0	
	Uttarakhand	1681	0	32.3	25.4	0.1	307	0.6	
	HP	1131	0	23.6	-4.5	3.6	276	0.0	
	J&K	2578	455	40.6	19.4	-4.4	837	9.6	
	Chandigarh	253	0	4.8	5.6	-0.8	9	0.0	
	WR	Chhattisgarh	3714	0	85.4	13.2	0.5	331	0.5
Gujarat		12917	0	288.2	75.4	5.7	875	0.0	
MP		7602	0	165.7	76.5	0.5	430	0.0	
Maharashtra		18140	0	406.8	112.3	1.8	657	0.0	
Goa		444	0	8.9	7.7	0.5	44	0.0	
DD		290	0	6.4	5.6	0.8	89	0.0	
DNH		684	0	16.1	15.7	0.4	48	0.0	
Essar steel		516	0	10.2	10.2	0.0	253	0.0	
SR		Andhra Pradesh	8163	0	179.4	24.6	0.6	456	0.0
		Telangana	9470	0	210.3	103.9	0.0	467	0.0
	Karnataka	8297	0	172.5	55.8	1.0	412	0.0	
	Kerala	3104	0	60.4	19.7	0.2	209	0.0	
	Tamil Nadu	13346	0	307.0	92.9	-2.6	520	0.0	
	Pondy	346	0	7.4	7.7	-0.3	19	0.0	
ER	Bihar	4279	0	72.4	72.2	-0.2	345	0.0	
	DVC	2908	0	67.7	-39.9	0.8	312	0.0	
	Jharkhand	1029	0	21.9	18.5	-0.6	156	0.0	
	Odisha	4515	0	91.7	53.3	2.7	385	0.0	
	West Bengal	7649	0	158.1	43.7	4.8	402	0.0	
	Sikkim	77	0	1.5	1.3	0.2	25	0.0	
NER	Arunachal Pradesh	100	2	2.4	2.7	-0.3	55	0.0	
	Assam	1662	38	31.0	25.0	1.6	178	0.8	
	Manipur	172	0	2.2	2.4	-0.2	20	0.0	
	Meghalaya	310	0	5.8	1.3	-0.2	24	0.0	
	Mizoram	73	2	1.2	0.8	0.0	8	0.0	
	Nagaland	114	1	2.2	2.0	-0.2	9	0.0	
	Tripura	254	2	4.6	5.7	0.2	40	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	31.4	-4.7	-15.4
Day peak (MW)	1531.5	-305.5	-651.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	260.4	-234.4	52.7	-77.8	-1.8	-0.8
Actual(MU)	246.9	-229.5	53.8	-63.8	-3.0	4.4
O/D/U/D(MU)	-13.5	4.9	1.1	14.0	-1.2	5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5087	16860	7972	1460	429	31808
State Sector	14050	18934	8950	5735	50	47719
Total	19137	35794	16922	7195	479	79527

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	402	986	431	398	6	2223
Hydro	323	21	108	103	25	579
Nuclear	27	30	61	0	0	118
Gas, Naptha & Diesel	9	39	24	0	25	98
RES (Wind, Solar, Biomass & Others)	64	142	279	1	0	486
Total	826	1217	904	501	56	3505

Share of RES in total generation (%)	7.79	11.65	30.89	0.13	0.05	13.87
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	50.20	15.81	49.61	20.65	43.88	33.78

H. Diversity Factor

All India Demand Diversity Factor	1.007
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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 : 30-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)
<b>Import/Export of ER (With NR)</b>								
1	765kV	GAYA-VARANASI	D/C	0	701	0.0	10.2	-10.2
2		SASARAM-FATEHPUR	S/C	76	163	0.0	1.0	-1.0
3		GAYA-BALIA	S/C	0	440	0.0	7.4	-7.4
4		ALIPURDUAR-AGRA	-	0	399	0.0	9.6	-9.6
5	HVDC	PUSAULI B/B	S/C	0	148	0.0	3.7	-3.7
6	400 kV	PUSAULI-VARANASI	S/C	0	97	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	0	118	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	913	0.0	17.1	-17.1
9		PATNA-BALIA	Q/C	0	1162	0.0	18.1	-18.1
10		BIHARSHARIFF-BALIA	D/C	0	429	0.0	9.2	-9.2
11		MOTIHARI-GORAKHPUR	D/C	251	14	3.4	0.0	3.4
12		BIHARSHARIFF-VARANASI	D/C	837	0	0.0	5.1	-5.1
13	220 kV	PUSAULI-SAHUPURI	S/C	0	147	0.0	2.9	-2.9
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	35	0	0.0	0.0	0.0
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
<b>ER-NR</b>						<b>3.4</b>	<b>84.3</b>	<b>-80.8</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	934	7	16.4	0.0	16.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	606	193	7.2	0.0	7.2
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	792	0	14.5	0.0	14.5
21		RANCHI-SIPAT	D/C	301	0	5.9	0.0	5.9
22	220 kV	BUDHIPADAR-RAIGARH	S/C	132	14	1.0	0.0	1.0
23		BUDHIPADAR-KORBA	D/C	194	0	3.3	0.0	3.3
<b>ER-WR</b>						<b>48.3</b>	<b>0.0</b>	<b>48.3</b>
<b>Import/Export of ER (With SR)</b>								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1243.8	0.0	17.2	-17.2
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	478.2	0.0	9.8	-9.8
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1189.4	0.0	24.4	-24.4
27	400 kV	TALCHER-I/C	D/C	797.5	0.8	0.0	12.0	-12.0
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>51.5</b>	<b>-51.5</b>
<b>Import/Export of ER (With NER)</b>								
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	400	0.0	5.9	-6
30		ALIPURDUAR-BONGAIGAON	D/C	71	222	0.0	1.9	-2
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	111	0.0	3.2	-3
<b>ER-NER</b>						<b>0.0</b>	<b>11.0</b>	<b>-11.0</b>
<b>Import/Export of NER (With NR)</b>								
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	600	0.0	14.3	-14.3
<b>NER-NR</b>						<b>0.0</b>	<b>14.3</b>	<b>-14.3</b>
<b>Import/Export of WR (With NR)</b>								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1002	0.0	21.9	-21.9
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0
35		APL -MHG	D/C	0	688	0.0	17.0	-17.0
36		GWALIOR-AGRA	D/C	0	1369	0.0	48.9	-48.9
37	765 kV	PHAGI-GWALIOR	D/C	0	1599	0.0	30.1	-30.1
38		JABALPUR-ORAI	D/C	0	759	0.0	23.5	-23.5
39		GWALIOR-ORAI	S/C	477	0	8.7	0.0	8.7
40		SATNA-ORAI	S/C	0	1812	0.0	39.1	-39.1
41	400 kV	ZERDA-KANKROLI	S/C	164	197	0.0	0.3	-0.3
42		ZERDA -BHINMAL	S/C	128	169	0.0	0.5	-0.5
43		V'CHAL -RIHAND	S/C	971	0	18.4	0.0	18.4
44		RAPP-SHUJALPUR	D/C	0	431	0	3	-3
45	220 kV	BADOD-KOTA	S/C	16	65	0.0	1.7	-1.7
46		BADOD-MORAK	S/C	0	120	0.0	2.2	-2.2
47		MEHGAON-AURAIYA	S/C	55	12	0.3	0.0	0.3
48	132kV	MALANPUR-AURAIYA	S/C	27	28	0.1	0.3	-0.3
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>33.5</b>	<b>188.4</b>	<b>-154.9</b>
<b>Import/Export of WR (With SR)</b>								
50	HVDC	BHADRAWATI B/B	-	0	620	0.0	13.5	-13.5
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	1087	769	4.4	0.0	4.4
53		WARDHA-NIZAMABAD	D/C	0	1847	0.0	25.4	-25.4
54	400 kV	KOLHAPUR-KUDGI	D/C	694	0	8.1	0.0	8.1
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
<b>WR-SR</b>						<b>12.5</b>	<b>38.8</b>	<b>-26.3</b>
<b>TRANSNATIONAL EXCHANGE</b>								
58		BHUTAN						<b>31.4</b>
59		NEPAL						<b>-4.7</b>
60		BANGLADESH						<b>-15.4</b>