



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: 30th July 2019

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- मुख्य महाप्रबंधक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतेिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 29.07.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-जुलाई-2019 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 29th July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

30-Jul-19

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)	55248	43636	39844	19582	2729	161039
Peak Shortage (MW)	1935	0	0	0	191	2126
Energy Met (MU)	1217	994	869	412	51	3544
Hydro Gen (MU)	336	21	46	115	26	543
Wind Gen (MU)	13	158	182	-----	-----	352
Solar Gen (MU)*	24.72	8.92	45.44	1.99	0.04	81
Energy Shortage (MU)	10.1	0.0	0.0	0.0	1.6	11.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	58863 21:42	46150 09:49	38138 20:03	20749 20:52	2865 19:32	162084 20:03

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	0.030	0.00	0.00	2.79	2.79	71.25	25.96

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	10940	0	231.9	146.7	-1.3	27	0.0
	Haryana	8860	0	180.5	147.3	0.1	189	0.0
	Rajasthan	8660	0	175.3	55.9	-3.2	360	0.0
	Delhi	5548	0	111.8	95.7	-0.3	165	0.0
	UP	19783	360	399.0	190.7	3.1	1110	0.0
	Uttarakhand	1870	0	41.0	14.2	0.4	104	0.0
	HP	1417	0	29.4	-2.1	-0.1	54	0.1
	J&K	2094	523	41.8	19.2	3.1	301	10.0
WR	Chandigarh	315	0	6.0	6.6	-0.6	17	0.0
	Chhattisgarh	3818	0	89.2	29.4	-1.4	283	0.0
	Gujarat	13644	0	299.5	60.1	1.3	491	0.0
	MP	8304	0	185.1	82.4	-2.2	488	0.0
	Maharashtra	17533	0	377.1	88.9	-0.1	445	0.0
	Goa	541	0	11.3	10.7	0.0	141	0.0
	DD	312	0	7.0	6.7	0.3	66	0.0
	DNH	807	0	18.9	19.1	-0.2	130	0.0
SR	Essar steel	325	0	6.0	5.6	0.5	267	0.0
	Andhra Pradesh	6903	0	155.2	21.1	1.2	498	0.0
	Telangana	7622	0	161.3	71.9	0.6	496	0.0
	Karnataka	9819	0	175.2	45.7	-0.9	499	0.0
	Kerala	3477	0	68.5	53.3	3.8	376	0.0
	Tamil Nadu	14190	0	301.4	112.8	1.0	492	0.0
	Pondy	348	0	7.6	7.8	-0.3	26	0.0
	Bihar	5164	0	93.5	88.5	0.6	200	0.0
ER	DVC	2853	0	60.4	-38.8	-1.1	150	0.0
	Jharkhand	1063	0	22.1	14.0	0.6	50	0.0
	Odisha	4154	0	82.6	36.8	1.0	250	0.0
	West Bengal	7886	0	152.9	62.4	0.9	300	0.0
	Sikkim	72	0	0.7	1.1	-0.4	5	0.0
NER	Arunachal Pradesh	121	8	2.2	2.6	-0.4	36	0.0
	Assam	1759	49	31.3	24.8	0.9	141	1.5
	Manipur	158	9	2.3	2.3	0.0	27	0.0
	Meghalaya	317	7	5.6	0.0	0.1	53	0.0
	Mizoram	90	5	1.8	1.0	0.4	24	0.0
	Nagaland	117	7	2.2	2.0	-0.1	18	0.0
	Tripura	293	18	5.8	4.5	0.6	52	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	42.8	-5.2	-25.7
Day peak (MW)	1909.1	-280.0	-1119.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	294.4	-268.0	32.1	-47.9	-10.8	-0.1
Actual(MU)	276.7	-285.4	53.0	-38.0	-10.3	-4.0
O/D/U/D(MU)	-17.7	-17.5	20.9	9.9	0.5	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5116	17905	8302	2950	82	34354
State Sector	11355	16955	9570	4400	50	42330
Total	16471	34860	17872	7350	131	76684

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	466	1011	388	345	11	2222
Lignite	17	13	40	0	0	71
Hydro	336	21	46	115	26	543
Nuclear	27	31	60	0	0	118
Gas, Naptha & Diesel	30	39	16	0	29	115
RES (Wind, Solar, Biomass & Others)	75	176	266	2	0	520
Total	951	1293	816	462	67	3589

Share of RES in total generation (%)	7.93	13.64	32.59	0.44	0.06	14.48
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	46.09	17.68	45.56	25.23	39.11	32.92

H. Diversity Factor

All India Demand Diversity Factor	1.029
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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-19

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	144	367	0.0	2.8	-2.8
2		SASARAM-FATEHPUR	S/C	203	185	0.0	0.3	-0.3
3		GAYA-BALIA	S/C	0	409	0.0	6.2	-6.2
4		ALIPURDUAR-AGRA	-	0	1603	0.0	38.8	-38.8
5		PUSAULI B/B	S/C	0	397	0.0	3.6	-3.6
6	400 kV	PUSAULI-VARANASI	S/C	0	283	0.0	2.9	-2.9
7		PUSAULI -ALLAHABAD	S/C	12	156	0.0	0.6	-0.6
8		MUZAFFARPUR-GORAKHPUR	D/C	0	689	0.0	9.8	-9.8
9		PATNA-BALIA	Q/C	0	633	0.0	8.3	-8.3
10		BIHARSHARIFF-BALIA	D/C	0	276	0.0	4.8	-4.8
11		MOTIHARI-GORAKHPUR	D/C	0	294	0.0	4.2	-4.2
12		BIHARSHARIFF-VARANASI	D/C	167	117	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	131	0.0	2.5	-2.5
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	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						1.0	84.9	-84.0
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMAJGARH	Q/C	2093	0	39.7	0.0	39.7
19		NEW RANCHI-DHARAMAJGARH	D/C	1417	0	24.5	0.0	24.5
20		JHARSUGUDA-DURG	D/C	432	1	8.5	0.0	8.5
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	489	0	7.0	0.0	7.0
22		RANCHI-SIPAT	D/C	519	0	8.0	0.0	8.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	59	28	0.6	0.0	0.6
24		BUDHIPADAR-KORBA	D/C	225	0	4.5	0.0	4.5
ER-WR						92.7	0.0	92.7
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1143.0	0.0	13.3	-13.3
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	428.0	0.0	10.0	-10.0
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1978.0	0.0	27.8	-27.8
28	400 kV	TALCHER-I/C	D/C	0.0	1488.0	0.0	14.8	-14.8
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	51.0	-51.0
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	668	0.0	10.8	-11
31		ALIPURDUAR-BONGAIGAON	D/C	345	120	2.3	0.0	2
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	113	0.0	1.6	-2
ER-NER						2.3	12.4	-10.1
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	1004	0.0	23.2	-23.2
NER-NR						0.0	23.2	-23.2
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2502	0.0	33.4	-33.4
35		V'CHAL B/B	D/C	452	0	12.2	0.0	12.2
36		APL -MHG	D/C	0	1169	0.0	29.1	-29.1
37	765 kV	GWALIOR-AGRA	D/C	0	2960	0.0	47.9	-47.9
38		PHAGI-GWALIOR	D/C	0	1203	0.0	21.3	-21.3
39		JABALPUR-ORAI	D/C	0	1187	0.0	37.9	-37.9
40		GWALIOR-ORAI	S/C	382	0	7.8	0.0	7.8
41		SATNA-ORAI	S/C	0	1483	0.0	28.4	-28.4
42		CHITTORGARH-BANASKANTHA	D/C	0	1195	0.0	14.3	14.3
43		ZERDA-KANKROLI	S/C	33	224	0.1	1.7	-1.6
44	400 kV	ZERDA -BHINMAL	S/C	127	278	0.6	1.7	-1.1
45		V'CHAL -RIHAND	S/C	969	0	22.2	0.0	22.2
46		RAPP-SHUJALPUR	D/C	33	465	0	2	-2
47	220 kV	BHANPURA-RANPUR	S/C	4	93	0.0	1.1	-1.1
48		BHANPURA-MORAK	S/C	0	125	0.0	1.7	-1.7
49		MEHGAON-AURAIYA	S/C	80	0	0.9	0.0	0.9
50		MALANPUR-AURAIYA	S/C	43	33	0.1	0.2	0.0
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						43.9	220.7	-148.1
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	515	0.0	9.6	-9.6
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	936	914	0.6	0.0	0.6
55		WARDHA-NIZAMABAD	D/C	20	1507	0.0	21.0	-21.0
56	400 kV	KOLHAPUR-KUDGI	D/C	982	0	15.4	0.0	15.4
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	81	0.0	1.1	-1.1
59		XELDEM-AMBEWADI	S/C	1	45	0.6	0.0	0.6
WR-SR						16.6	31.7	-15.1
TRANSNATIONAL EXCHANGE								
60		BHUTAN						42.8
61		NEPAL						-5.2
62		BANGLADESH						-25.7