



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: 19th Sep 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 18.09.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-सितंबर-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 18th Sep 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

19-Sep-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)	58521	44953	39955	21509	2766	167704
Peak Shortage (MW)	1136	0	0	150	80	1366
Energy Met (MU)	1287	1019	856	437	52	3651
Hydro Gen (MU)	306	118	156	127	26	734
Wind Gen (MU)	13	29	88	-----	-----	130
Solar Gen (MU)*	28.81	18	47.55	1.91	0.05	96
Energy Shortage (MU)	10.1	0.0	0.4	0.5	1.0	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	58955 20:24	46339 19:22	40250 18:52	21696 21:08	2732 19:42	168867 19:17

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	0.051	0.97	1.63	6.03	8.63	76.67	14.70

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	10612	0	243.0	129.0	-1.1	45	0.0
	Haryana	9543	0	208.4	152.9	-0.5	104	0.0
	Rajasthan	11097	0	245.5	71.2	-2.0	372	0.0
	Delhi	5829	0	121.0	98.3	-0.6	203	0.0
	UP	17764	0	351.9	157.5	-1.4	385	0.0
	Uttarakhand	1871	0	37.7	12.8	-0.9	102	0.0
	HP	1517	0	31.5	5.6	1.7	172	0.0
	J&K	2928	586	42.2	18.7	0.5	277	10.1
WR	Chandigarh	279	0	5.8	6.4	-0.6	4	0.0
	Chhattisgarh	4023	0	90.6	38.2	-0.9	200	0.0
	Gujarat	14370	0	316.1	89.2	2.7	478	0.0
	MP	8213	0	169.8	64.7	-2.5	516	0.0
	Maharashtra	18468	0	399.2	162.0	-2.6	689	0.0
	Goa	541	0	11.5	11.0	-0.1	66	0.0
	DD	337	0	7.4	6.9	0.6	52	0.0
	DNH	811	0	18.7	18.7	0.0	42	0.0
SR	Essar steel	363	0	5.6	5.6	0.0	321	0.0
	Andhra Pradesh	7445	0	159.2	44.1	-0.7	724	0.1
	Telangana	8043	0	161.5	42.8	-2.8	578	0.1
	Karnataka	9343	0	177.7	55.7	1.0	909	0.1
	Kerala	3398	0	68.4	46.0	1.4	171	0.0
	Tamil Nadu	13510	0	282.1	113.5	0.5	566	0.1
	Pondy	371	0	7.5	7.6	-0.1	37	0.0
	Bihar	5039	0	79.2	78.0	-0.9	130	0.0
ER	DVC	2816	0	61.1	-21.8	-0.2	190	0.0
	Jharkhand	1220	0	25.4	17.0	-0.6	110	0.0
	Odisha	5147	0	105.7	29.6	6.7	473	0.5
	West Bengal	8214	0	164.1	62.6	0.5	260	0.0
	Sikkim	100	0	1.2	1.2	-0.1	20	0.0
NER	Arunachal Pradesh	129	1	2.3	2.8	-0.5	41	0.0
	Assam	1788	88	33.1	27.9	0.9	120	1.0
	Manipur	165	1	2.4	2.3	0.1	28	0.0
	Meghalaya	308	0	5.3	0.9	-0.1	58	0.0
	Mizoram	91	1	1.6	0.6	0.8	19	0.0
	Nagaland	133	1	2.3	2.4	-0.3	25	0.0
	Tripura	289	2	5.2	5.6	-0.1	20	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	45.2	-3.9	-25.9
Day peak (MW)	1845.7	-300.5	-1111.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	272.3	-222.9	20.8	-61.5	-8.8	-0.1
Actual(MU)	271.6	-216.9	32.4	-83.9	-6.4	-3.2
O/D/U/D(MU)	-0.8	6.1	11.6	-22.4	2.4	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3715	15840	8882	1200	56	29693
State Sector	6055	20176	8920	6310	0	41461
Total	9770	36015	17802	7510	56	71153

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	587	977	390	408	10	2372
Lignite	20	12	38	0	0	70
Hydro	306	118	156	127	26	734
Nuclear	27	15	60	0	0	103
Gas, Naptha & Diesel	44	73	15	0	27	159
RES (Wind, Solar, Biomass & Others)	55	50	171	2	0	278
Total	1040	1244	830	538	64	3717

Share of RES in total generation (%)	5.33	4.01	20.60	0.36	0.08	7.49
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.37	14.71	46.64	24.06	41.51	30.00

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 : 19-Sep-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	0	516	0.0	9.5	-9.5
2		SASARAM-FATEHPUR	S/C	2	235	0.0	3.1	-3.1
3		GAYA-BALIA	S/C	0	335	0.0	5.8	-5.8
4		ALIPURDUAR-AGRA	-	0	1400	0.0	28.4	-28.4
5		PUSAULI B/B	S/C	0	195	0.0	4.7	-4.7
6	400 kV	PUSAULI-VARANASI	S/C	0	148	0.0	2.9	-2.9
7		PUSAULI -ALLAHABAD	S/C	0	102	0.0	1.6	-1.6
8		MUZAFFARPUR-GORAKHPUR	D/C	0	959	0.0	15.9	-15.9
9		PATNA-BALIA	Q/C	0	1015	0.0	19.0	-19.0
10		BIHARSHARIFF-BALIA	D/C	0	292	0.0	4.8	-4.8
11	MOTIHARI-GORAKHPUR	D/C	0	7	0.0	0.0	0.0	
12	BIHARSHARIFF-VARANASI	D/C	0	218	0.0	2.7	-2.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	1	152	0.0	1.8	-1.8
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
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						0.4	100.4	-100.0
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1257	0	23.4	0.0	23.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	614	172	6.3	0.0	6.3
20		JHARSUGUDA-DURG	D/C	232	12	3.1	0.0	3.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	269	52	2.8	0.0	2.8
22		RANCHI-SIPAT	D/C	214	64	2.7	0.0	2.7
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	148	0.0	2.2	-2.2
24		BUDHIPADAR-KORBA	D/C	70	30	0.7	0.0	0.7
ER-WR						38.9	2.2	36.7
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1585.0	0.0	27.0	-27.0
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	310.0	0.0	7.4	0.0	7.4
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1188.0	0.0	19.2	-19.2
28	400 kV	TALCHER-I/C	D/C	328.0	430.0	0.6	0.0	0.6
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						7.4	46.2	-38.9
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	482	0.0	5.7	-6
31		ALIPURDUAR-BONGAIGAON	D/C	245	255	1.0	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	110	0.0	1.3	-1
ER-NER						1.0	7.0	-6.0
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	603	0.0	14.5	-14.5
NER-NR						0.0	14.5	-14.5
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1002	0.0	21.2	-21.2
35		V'CHAL B/B	D/C	451	0	10.0	0.0	10.0
36		APL -MHG	D/C	0	1741	0.0	35.8	-35.8
37	765 kV	GWALIOR-AGRA	D/C	0	2091	0.0	39.0	-39.0
38		PHAGI-GWALIOR	D/C	0	1189	0.0	23.1	-23.1
39		JABALPUR-ORAI	D/C	0	824	0.0	30.0	-30.0
40		GWALIOR-ORAI	S/C	290	0	5.7	0.0	5.7
41		SATNA-ORAI	S/C	0	1392	0.0	30.4	-30.4
42	400 kV	CHITTORGARH-BANASKANTHA	D/C	0	848	0.0	12.4	-12.4
43		ZERDA-KANKROLI	S/C	82	104	0.2	0.8	-0.6
44		ZERDA -BHINMAL	S/C	7	239	0.0	2.7	-2.7
45		V'CHAL -RIHAND	S/C	979	0	22.5	0.0	22.5
46		RAPP-SHUJALPUR	D/C	0	359	0	5	-5
47	220 kV	BHANPURA-RANPUR	S/C	7	64	0.0	0.7	-0.7
48		BHANPURA-MORAK	S/C	0	122	0.0	1.7	-1.7
49		MEHGAON-AURAIYA	S/C	70	6	0.9	0.0	0.9
50		MALANPUR-AURAIYA	S/C	37	32	0.2	0.1	0.0
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						39.5	202.4	-162.9
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	211	0.0	4.8	-4.8
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	554	713	0.0	2.1	-2.1
55		WARDHA-NIZAMABAD	D/C	0	1519	0.0	22.7	-22.7
56	400 kV	KOLHAPUR-KUDGI	D/C	861	0	14.7	0.0	14.7
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	64	0.0	1.2	-1.2
59		XELDEM-AMBEWADI	S/C	0	37	0.7	0.0	0.7
WR-SR						15.4	30.9	-15.4
TRANSNATIONAL EXCHANGE								
60		BHUTAN						45.2
61		NEPAL						-3.9
62		BANGLADESH						-25.9