



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: 24th Sep 2019

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
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. मुख्य महाप्रबंधक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 23.09.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd Sep 2019, 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

24-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)	54472	45713	39160	21819	2508	163672
Peak Shortage (MW)	1780	0	0	0	277	2057
Energy Met (MU)	1158	1036	874	445	46	3559
Hydro Gen (MU)	255	117	156	134	24	686
Wind Gen (MU)	6	21	26	-----	-----	53
Solar Gen (MU)*	25.68	18.4	71.18	2.02	0.03	117
Energy Shortage (MU)	12.0	0.0	0.0	0.0	8.2	20.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	55124 19:11	46772 11:44	39614 19:02	22060 20:01	2582 18:52	165018 19:10

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	0.75	3.58	4.33	78.47	17.20

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	9712	0	213.9	124.3	-1.1	65	0.0
	Haryana	8654	0	179.6	134.5	-0.2	184	0.0
	Rajasthan	9950	0	225.8	73.3	-1.4	428	0.0
	Delhi	4613	0	98.5	81.8	-0.9	116	0.0
	UP	16532	660	326.9	150.8	1.5	914	2.2
	Uttarakhand	1882	0	38.3	15.0	0.7	139	0.0
	HP	1460	0	29.2	7.6	1.4	117	0.0
	J&K	2198	550	41.0	23.5	1.3	411	9.8
	Chandigarh	242	0	5.0	5.5	-0.4	9	0.0
WR	Chhattisgarh	4327	0	103.5	45.5	2.1	345	0.0
	Gujarat	14487	0	317.2	97.2	4.5	544	0.0
	MP	7553	0	164.0	70.6	-2.4	259	0.0
	Maharashtra	18714	0	409.6	165.9	-0.3	604	0.0
	Goa	541	0	11.0	11.0	-0.6	52	0.0
	DD	319	0	7.1	6.9	0.2	39	0.0
	DNH	804	0	18.4	18.4	0.0	69	0.0
	Essar steel	293	0	5.3	5.6	-0.3	267	0.0
SR	Andhra Pradesh	7454	0	158.1	44.7	1.8	495	0.0
	Telangana	8351	0	179.5	38.3	-1.8	499	0.0
	Karnataka	9328	0	177.3	56.1	0.3	496	0.0
	Kerala	3541	0	71.4	47.4	1.4	208	0.0
	Tamil Nadu	13151	0	280.4	132.6	-0.7	492	0.0
	Pondy	373	0	7.6	7.9	-0.3	26	0.0
	Bihar	5267	0	98.1	96.8	-1.0	200	0.0
ER	DVC	3043	0	62.7	-19.6	-0.2	500	0.0
	Jharkhand	1201	0	26.6	22.0	-0.9	50	0.0
	Odisha	4581	0	89.7	23.6	8.3	500	0.0
	West Bengal	8380	0	166.7	59.5	-1.1	200	0.0
	Sikkim	90	0	1.0	1.2	-0.2	15	0.0
NER	Arunachal Pradesh	109	9	2.0	2.4	-0.4	15	0.0
	Assam	1578	67	27.2	22.1	-0.3	156	8.0
	Manipur	147	11	2.5	2.2	0.3	36	0.0
	Meghalaya	289	6	5.8	2.3	-0.2	54	0.0
	Mizoram	86	7	1.6	1.0	0.5	27	0.0
	Nagaland	107	6	2.0	2.3	-0.5	12	0.0
	Tripura	274	18	4.7	5.0	-0.3	49	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	43.9	-4.2	-25.4
Day peak (MW)	1928.3	-146.1	-1108.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	285.7	-217.0	16.6	-75.9	-2.2	7.2
Actual(MU)	280.2	-196.0	15.3	-92.7	-5.3	1.5
O/D/U/D(MU)	-5.5	20.9	-1.3	-16.8	-3.2	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4625	15960	7122	1550	306	29562
State Sector	9000	19447	6670	6030	11	41158
Total	13625	35406	13792	7580	317	70720

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	509	988	460	424	9	2389
Lignite	20	12	46	0	0	78
Hydro	255	117	156	134	24	686
Nuclear	28	28	60	0	0	116
Gas, Naptha & Diesel	39	67	16	0	24	146
RES (Wind, Solar, Biomass & Others)	44	44	128	2	0	219
Total	895	1255	866	559	57	3633

Share of RES in total generation (%)	4.93	3.50	14.83	0.37	0.05	6.02
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36.49	15.03	39.81	24.28	41.93	28.07

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 :	24-Sep-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	0	654	0.0	8.5	-8.5	
2		SASARAM-FATEHPUR	S/C	103	295	0.0	2.3	-2.3	
3		GAYA-BALIA	S/C	0	345	0.0	6.3	-6.3	
4	HVDC	ALIPURDUAR-AGRA	-	0	1202	0.0	28.8	-28.8	
5		PUSAULI B/B	S/C	0	196	0.0	4.8	-4.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	168	0.0	3.2	-3.2	
7		PUSAULI -ALLAHABAD	S/C	0	106	0.0	1.5	-1.5	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1015	0.0	16.4	-16.4	
9		PATNA-BALIA	Q/C	0	1053	0.0	20.3	-20.3	
10		BIHARSHARIFF-BALIA	D/C	0	348	0.0	5.4	-5.4	
11		MOTIHARI-GORAKHPUR	D/C	5	7	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	21	283	0.0	4.7	-4.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	175	0.0	3.1	-3.1	
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	105.2	-104.8	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1141	0	21.1	0.0	21.1	
19		NEW RANCHI-DHARAMJAIGARH	D/C	684	57	8.4	0.0	8.4	
20		JHARSUGUDA-DURG	D/C	207	6	2.8	0.0	2.8	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	138	183	0.1	0.0	0.1	
22		RANCHI-SIPAT	D/C	244	25	3.1	0.0	3.1	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	83	0.0	1.0	-1.0	
24		BUDHIPADAR-KORBA	D/C	108	0	1.9	0.0	1.9	
ER-WR						37.5	1.0	36.5	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1166.0	0.0	21.7	-21.7	
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	1189.0	0.0	24.1	-24.1	
28	400 kV	TALCHER-I/C	D/C	7.0	443.0	0.0	5.5	-5.5	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						7.4	45.8	-38.5	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	473	0.0	6.4	-6	
31		ALIPURDUAR-BONGAIGAON	D/C	238	161	0.4	0.0	0	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	97	0.0	1.3	-1	
ER-NER						0.4	7.8	-7.3	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	14.2	-14.2	
NER-NR						0.0	14.2	-14.2	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1003	0.0	22.9	-22.9	
35		V'CHAL B/B	D/C	452	0	10.0	0.0	10.0	
36		APL -MHG	D/C	0	1460	0.0	28.9	-28.9	
37	765 kV	GWALIOR-AGRA	D/C	0	2081	0.0	38.9	-38.9	
38		PHAGI-GWALIOR	D/C	0	1526	0.0	29.1	-29.1	
39		JABALPUR-ORAI	D/C	0	783	0.0	30.6	-30.6	
40		GWALIOR-ORAI	S/C	293	0	5.9	0.0	5.9	
41		SATNA-ORAI	S/C	0	1355	0.0	29.6	-29.6	
42		CHITTORGARH-BANASKANTHA	D/C	0	889	0.0	9.1	-9.1	
43		ZERDA-KANKROLI	S/C	61	140	0.1	1.6	-1.5	
44	400 kV	ZERDA -BHINMAL	S/C	51	312	0.0	4.2	-4.1	
45		V'CHAL -RIHAND	S/C	978	0	22.4	0.0	22.4	
46	220 kV	RAPP-SHUJALPUR	D/C	0	373	0	3	-3	
47		BHANPURA-RANPUR	S/C	18	60	0.0	0.9	-0.8	
48		BHANPURA-MORAK	S/C	0	107	0.0	1.5	-1.5	
49		MEHGAON-AURAIYA	S/C	47	6	0.5	0.0	0.5	
50	132kV	MALANPUR-AURAIYA	S/C	31	23	0.1	0.2	-0.1	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						39.0	200.4	-161.4	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	192	0	4.9	0.0	4.9	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	905	539	2.6	0.0	2.6	
55		WARDHA-NIZAMABAD	D/C	0	1269	0.0	19.4	-19.4	
56	400 kV	KOLHAPUR-KUDGI	D/C	885	0	15.2	0.0	15.2	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	69	0.0	1.3	-1.3	
59		XELDEM-AMBEWADI	S/C	0	40	0.7	0.0	0.7	
WR-SR						23.5	20.6	2.8	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						43.9	
61		NEPAL						-4.2	
62		BANGLADESH						-25.4	