



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: 23rd 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., डोंगतेह, 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 22.09.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-सितंबर-2019 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 22nd Sep 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

23-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)	51633	43492	36783	20900	2487	155295
Peak Shortage (MW)	541	0	0	0	234	775
Energy Met (MU)	1125	989	834	434	50	3432
Hydro Gen (MU)	268	117	155	134	21	695
Wind Gen (MU)	6	45	23	-----	-----	74
Solar Gen (MU)*	27.82	18.36	60.26	1.91	0.04	108
Energy Shortage (MU)	9.9	0.0	0.0	0.0	2.4	12.3
Maximum Demand Met during the day (MW) & time (from RLDC SCADA)	53415 00:17	44545 19:20	36847 19:02	21454 19:58	2930 00:02	157042 19:24

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	0.028	0.00	0.07	2.59	2.66	74.75	22.59

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	9530	0	216.8	130.5	-0.8	47	0.0
	Haryana	8136	0	169.5	121.6	-0.3	180	0.0
	Rajasthan	9779	0	222.2	74.2	-3.0	351	0.0
	Delhi	4623	0	94.0	78.0	-1.7	98	0.0
	UP	17201	0	316.7	154.8	-1.1	619	0.4
	Uttarakhand	1631	0	33.6	11.8	-0.9	119	0.0
	HP	1340	0	27.0	5.0	1.8	246	0.0
	J&K	2163	541	40.0	19.2	-2.0	281	9.6
WR	Chandigarh	245	0	5.2	5.0	0.1	40	0.0
	Chhattisgarh	4385	0	103.6	46.1	1.7	367	0.0
	Gujarat	12883	0	294.1	91.9	0.1	493	0.0
	MP	7778	0	162.8	68.7	-3.4	458	0.0
	Maharashtra	17598	0	386.6	153.2	0.3	477	0.0
	Goa	541	0	11.0	10.4	0.0	52	0.0
	DD	303	0	7.0	6.6	0.3	35	0.0
	DNH	765	0	18.1	18.1	-0.1	72	0.0
SR	Essar steel	314	0	6.1	5.6	0.4	294	0.0
	Andhra Pradesh	7128	0	156.6	45.8	-0.6	495	0.0
	Telangana	7646	0	169.4	28.0	-0.9	578	0.0
	Karnataka	8258	0	169.8	51.3	1.5	838	0.0
	Kerala	3315	0	66.3	46.6	1.3	190	0.0
	Tamil Nadu	11809	0	264.6	132.6	1.4	692	0.0
	Pondy	331	0	7.0	7.3	-0.3	42	0.0
	Bihar	5099	0	93.1	91.2	-0.4	300	0.0
ER	DVC	3017	0	63.9	-18.8	0.8	400	0.0
	Jharkhand	1233	0	26.4	20.2	0.2	50	0.0
	Odisha	4297	0	86.8	18.6	7.4	473	0.0
	West Bengal	8022	0	162.8	55.3	-1.2	400	0.0
	Sikkim	80	0	0.8	1.1	-0.3	5	0.0
NER	Arunachal Pradesh	105	2	2.0	2.3	-0.3	13	0.0
	Assam	1646	169	31.4	26.9	-0.3	96	2.1
	Manipur	140	4	2.3	2.3	0.1	17	0.0
	Meghalaya	311	0	5.9	1.9	0.0	108	0.0
	Mizoram	82	2	1.7	1.1	0.3	14	0.0
	Nagaland	121	2	2.1	2.0	-0.3	34	0.0
	Tripura	221	10	4.8	4.7	-0.1	51	0.3

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	45.2	-5.2	-26.1
Day peak (MW)	1883.2	-331.9	-1159.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	267.2	-202.4	15.5	-72.4	-0.7	7.1
Actual(MU)	252.3	-199.4	29.2	-82.0	-2.9	-2.7
O/D/U/D(MU)	-14.9	3.0	13.8	-9.6	-2.1	-9.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4125	17020	7122	1300	56	29622
State Sector	9750	21348	8500	4930	11	44539
Total	13875	38367	15622	6230	67	74161

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	497	924	418	405	10	2254
Lignite	20	11	43	0	0	74
Hydro	268	117	155	134	21	695
Nuclear	28	27	60	0	0	115
Gas, Naptha & Diesel	37	55	15	0	27	135
RES (Wind, Solar, Biomass & Others)	46	71	118	2	0	237
Total	894	1206	811	541	59	3511

Share of RES in total generation (%)	5.10	5.91	14.59	0.36	0.07	6.76
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	38.14	17.89	41.16	25.05	36.27	29.84

H. Diversity Factor

All India Demand Diversity Factor	1.014
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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 : 23-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	32	501	0.0	5.6	-5.6	
2		SASARAM-FATEHPUR	S/C	184	157	0.5	0.0	0.5	
3		GAYA-BALIA	S/C	0	401	0.0	5.6	-5.6	
4		ALIPURDUAR-AGRA	-	0	1201	0.0	29.7	-29.7	
5		PUSAULI B/B	S/C	0	198	0.0	4.8	-4.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	182	0.0	3.5	-3.5	
7		PUSAULI -ALLAHABAD	S/C	0	90	0.0	1.1	-1.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	904	0.0	14.2	-14.2	
9		PATNA-BALIA	Q/C	0	974	0.0	16.4	-16.4	
10		BIHARSHARIFF-BALIA	D/C	0	292	0.0	3.9	-3.9	
11		MOTIHARI-GORAKHPUR	D/C	0	9	0.0	0.0	0.0	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	86	204	0.0	0.7	-0.7	
13		PUSAULI-SAHUPURI	S/C	0	173	0.0	3.3	-3.3	
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						0.9	88.8	-87.9	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1174	0	18.0	0.0	18.0	
19		NEW RANCHI-DHARAMJAIGARH	D/C	683	98	10.8	0.0	10.8	
20		JHARSUGUDA-DURG	D/C	207	70	2.1	0.0	2.1	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	132	232	0.2	0.0	0.2	
22		RANCHI-SIPAT	D/C	241	41	3.8	0.0	3.8	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	100	0.0	1.4	-1.4	
24		BUDHIPADAR-KORBA	D/C	112	0	1.6	0.0	1.6	
ER-WR						36.5	1.4	35.1	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1678.0	0.0	26.3	-26.3	
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	1185.0	0.0	25.2	-25.2	
28	400 kV	TALCHER-I/C	D/C	528.0	461.0	0.0	1.9	-1.9	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						7.4	51.5	-44.1	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	478	0.0	7.9	-8	
31		ALIPURDUAR-BONGAIGAON	D/C	62	202	0.0	1.4	-1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	110	0.0	1.7	-2	
ER-NER						0.0	11.0	-11.0	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	15.9	-15.9	
NER-NR						0.0	15.9	-15.9	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2000	0.0	27.0	-27.0	
35		V'CHAL B/B	D/C	452	0	10.3	0.0	10.3	
36		APL -MHG	D/C	0	1365	0.0	31.3	-31.3	
37	765 kV	GWALIOR-AGRA	D/C	0	2267	0.0	33.7	-33.7	
38		PHAGI-GWALIOR	D/C	0	1314	0.0	24.6	-24.6	
39		JABALPUR-ORAI	D/C	0	913	0.0	26.9	-26.9	
40		GWALIOR-ORAI	S/C	300	0	5.7	0.0	5.7	
41		SATNA-ORAI	S/C	0	1445	0.0	28.8	-28.8	
42		CHITTORGARH-BANASKANTHA	D/C	138	980	0.1	10.7	-10.6	
43	400 kV	ZERDA-KANKROLI	S/C	95	148	0.3	1.1	-0.8	
44		ZERDA -BHINMAL	S/C	20	285	0.0	3.3	-3.3	
45		V'CHAL -RIHAND	S/C	974	0	22.5	0.0	22.5	
46		RAPP-SHUJALPUR	D/C	0	413	0	2	-2	
47	220 kV	BHANPURA-RANPUR	S/C	24	66	0.0	0.7	-0.7	
48		BHANPURA-MORAK	S/C	0	82	0.0	1.4	-1.4	
49		MEHGAON-AURAIYA	S/C	117	0	1.0	0.0	1.0	
50		MALANPUR-AURAIYA	S/C	37	31	0.3	0.1	0.2	
51		132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						40.2	192.1	-151.9	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	192	0	4.8	0.0	4.8	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	663	1056	2.3	6.2	-3.9	
55		WARDHA-NIZAMABAD	D/C	0	1653	0.0	24.2	-24.2	
56	400 kV	KOLHAPUR-KUDGI	D/C	800	0	12.9	0.0	12.9	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	61	0.0	1.1	-1.1	
59		XELDEM-AMBEWADI	S/C	0	35	0.7	0.0	0.7	
WR-SR						20.6	31.6	-10.9	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						45.2	
61		NEPAL						-5.2	
62		BANGLADESH						-26.1	