



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 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, 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 29.09.2019.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-सितंबर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 Sep 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

30-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)	42124	40045	36075	17021	2430	137695
Peak Shortage (MW)	508	0	0	0	157	665
Energy Met (MU)	888	911	829	323	45	2996
Hydro Gen (MU)	267	101	151	121	25	665
Wind Gen (MU)	13	65	12	-----	-----	91
Solar Gen (MU)*	20.16	15.28	79.23	1.64	0.03	116
Energy Shortage (MU)	8.2	0.0	0.0	0.0	5.1	13.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42516 19:26	41199 18:50	36837 18:55	17076 18:45	2544 18:01	138893 19:22

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	0.067	0.00	0.25	3.08	3.33	52.27	44.40

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	5504	0	122.6	89.2	-3.2	71	0.0
	Haryana	6686	0	143.0	123.0	-0.4	165	0.0
	Rajasthan	9234	0	197.9	69.0	-1.1	872	0.0
	Delhi	3909	0	84.7	71.0	-2.1	46	0.0
	UP	13512	0	244.4	124.7	0.4	587	0.0
	Uttarakhand	1601	0	33.0	14.7	-2.0	166	0.0
	HP	1252	0	24.5	4.6	-1.4	141	0.0
	J&K	2033	508	34.5	16.0	-3.1	109	8.2
	Chandigarh	166	0	3.4	4.5	-1.1	14	0.0
	WR	Chhattisgarh	3206	0	76.2	28.2	0.3	176
Gujarat		11214	0	257.9	70.7	2.4	562	0.0
MP		7481	0	154.1	66.7	0.1	546	0.0
Maharashtra		17368	0	380.7	147.5	0.8	656	0.0
Goa		541	0	11.3	10.4	0.3	56	0.0
DD		294	0	6.8	6.6	0.3	38	0.0
DNH		767	0	18.1	18.2	-0.1	61	0.0
Essar steel		339	0	6.1	5.6	0.4	324	0.0
Andhra Pradesh		7263	0	160.0	63.6	3.9	976	0.0
Telangana		7646	0	166.3	44.7	-0.5	460	0.0
SR	Karnataka	8031	0	156.0	42.9	3.6	801	0.0
	Kerala	3155	0	65.1	44.4	1.8	189	0.0
	Tamil Nadu	12289	0	274.7	137.6	0.9	560	0.0
	Pondy	337	0	7.3	7.6	-0.3	31	0.0
	Bihar	2837	0	43.5	60.2	-16.9	100	0.0
	DVC	2871	0	57.5	-8.4	1.3	240	0.0
ER	Jharkhand	1095	0	19.0	12.2	-1.9	50	0.0
	Odisha	4144	0	78.9	15.2	8.8	40	0.0
	West Bengal	6893	0	122.6	47.2	0.9	260	0.0
	Sikkim	95	0	1.2	1.1	0.1	30	0.0
	Arunachal Pradesh	112	1	2.2	2.3	-0.1	13	0.0
	Assam	1562	117	26.5	20.1	0.4	135	5.0
NER	Manipur	152	2	2.2	2.2	0.0	16	0.0
	Meghalaya	335	0	6.1	1.6	-0.2	29	0.0
	Mizoram	86	3	1.6	0.7	0.5	49	0.0
	Nagaland	125	2	2.4	2.3	-0.2	22	0.0
	Tripura	228	6	4.1	4.3	-0.8	7	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	43.4	-2.8	-24.0
Day peak (MW)	1810.0	-118.0	-1075.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	229.7	-215.6	57.1	-55.5	-7.0	8.7
Actual(MU)	204.4	-211.6	93.2	-65.1	-8.8	12.1
O/D/U/D(MU)	-25.3	4.0	36.1	-9.6	-1.8	3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4060	14420	7412	4165	382	30439
State Sector	14321	24409	12033	7780	11	58554
Total	18381	38829	19445	11945	393	88993

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	338	843	349	283	7	1820
Lignite	17	11	38	0	0	66
Hydro	267	101	151	121	25	665
Nuclear	23	29	60	0	0	112
Gas, Naptha & Diesel	33	51	16	0	27	127
RES (Wind, Solar, Biomass & Others)	46	85	126	2	0	258
Total	724	1119	740	406	59	3048

Share of RES in total generation (%)	6.32	7.57	16.96	0.41	0.05	8.46
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	46.32	19.18	45.48	30.21	42.32	33.93

H. Diversity Factor

All India Demand Diversity Factor	1.009
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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-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	150	317	0.0	3.3	-3.3
2		SASARAM-FATEHPUR	S/C	92	181	0.0	1.8	-1.8
3		GAYA-BALIA	S/C	0	192	0.0	2.9	-2.9
4		ALIPURDUAR-AGRA	-	0	1201	0.0	29.0	-29.0
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	S/C	0	166	0.0	3.0	-3.0
7		PUSAULI -ALLAHABAD	S/C	0	106	0.0	1.6	-1.6
8		MUZAFFARPUR-GORAKHPUR	D/C	0	846	0.0	14.3	-14.3
9		PATNA-BALIA	Q/C	0	662	0.0	10.5	-10.5
10		BIHARSHARIFF-BALIA	D/C	0	188	0.0	3.2	-3.2
11		MOTIHARI-GORAKHPUR	D/C	0	9	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	130	133	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	131	0.0	1.7	-1.7
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						0.3	76.6	-76.4
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1840	0	36.8	0.0	36.8
19		NEW RANCHI-DHARAMJAIGARH	D/C	776	0	10.8	0.0	10.8
20		JHARSUGUDA-DURG	D/C	244	0	4.5	0.0	4.5
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	251	16	2.9	0.0	2.9
22		RANCHI-SIPAT	D/C	279	7	4.0	0.0	4.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	70	0.0	0.9	-0.9
24		BUDHIPADAR-KORBA	D/C	136	0	2.4	0.0	2.4
ER-WR						61.4	0.9	60.5
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2116.0	0.0	34.6	-34.6
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	459.0	0.0	8.5	0.0	8.5
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1497.0	0.0	34.7	-34.7
28	400 kV	TALCHER-I/C	D/C	20.0	1043.0	0.0	20.1	-20.1
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						8.5	69.2	-60.7
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	460	0.0	6.1	-6
31		ALIPURDUAR-BONGAIGAON	D/C	163	129	1.5	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	92	0.0	1.1	-1
ER-NER						1.5	7.2	-5.7
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	16.7	-16.7
NER-NR						0.0	16.7	-16.7
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	477	0.0	4.6	-4.6
35		V'CHAL B/B	D/C	451	0	12.1	0.0	12.1
36		APL -MHG	D/C	0	784	0.0	12.5	-12.5
37	765 kV	GWALIOR-AGRA	D/C	0	1685	0.0	31.2	-31.2
38		PHAGI-GWALIOR	D/C	0	1215	0.0	21.3	-21.3
39		JABALPUR-ORAI	D/C	0	760	0.0	23.9	-23.9
40		GWALIOR-ORAI	S/C	362	0	5.3	0.0	5.3
41		SATNA-ORAI	S/C	0	1279	0.0	25.9	-25.9
42		CHITTORGARH-BANASKANTHA	D/C	0	868	0.0	12.4	-12.4
43		ZERDA-KANKROLI	S/C	4	128	0.0	1.2	-1.2
44	400 kV	ZERDA -BHINMAL	S/C	36	204	0.0	2.4	-2.3
45		V'CHAL -RIHAND	S/C	969	0	21.2	0.0	21.2
46		RAPP-SHUJALPUR	D/C	0	390	0	3	-3
47	220 kV	BHANPURA-RANPUR	S/C	38	36	0.1	0.4	-0.3
48		BHANPURA-MORAK	S/C	0	113	0.0	1.3	-1.3
49		MEHGAON-AURAIYA	S/C	81	0	1.2	0.0	1.2
50		MALANPUR-AURAIYA	S/C	48	2	0.5	0.0	0.5
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						40.3	139.6	-99.2
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	809	0.0	13.3	-13.3
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	1044	1530	2.5	16.2	-13.7
55		WARDHA-NIZAMABAD	D/C	0	2056	0.0	32.3	-32.3
56	400 kV	KOLHAPUR-KUDGI	D/C	841	0	10.7	0.0	10.7
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	58	0.0	1.1	-1.1
59		XELDEM-AMBEWADI	S/C	0	33	0.6	0.0	0.6
WR-SR						13.8	62.8	-49.0
TRANSNATIONAL EXCHANGE								
60		BHUTAN						43.4
61		NEPAL						-2.8
62		BANGLADESH						-24.0