



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: 02nd 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 01.09.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 1st Sep 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

2-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)	53195	42155	36358	21963	2860	156531
Peak Shortage (MW)	1843	0	0	0	155	1998
Energy Met (MU)	1261	996	857	470	53	3637
Hydro Gen (MU)	359	100	89	136	16	698
Wind Gen (MU)	3	55	133	-----	-----	191
Solar Gen (MU)*	24.19	16.1	48.20	1.94	0.06	90
Energy Shortage (MU)	9.1	0.0	0.0	0.0	1.8	10.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	61707 00:28	43789 11:08	36825 10:17	22334 00:02	2888 19:44	161873 00:00

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	0.027	0.00	0.00	0.37	0.37	71.91	27.72

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	11044	0	233.4	135.0	-2.3	111	0.0
	Haryana	9761	0	194.6	145.3	0.0	169	0.0
	Rajasthan	9127	0	203.9	57.0	-3.3	195	0.0
	Delhi	6097	0	113.9	89.1	-0.7	292	0.0
	UP	21061	680	409.2	192.5	1.8	588	0.0
	Uttarakhand	1646	0	34.9	10.0	-1.7	67	0.0
	HP	1289	33	27.7	-3.5	-1.9	112	0.1
	J&K	1890	472	37.9	17.2	-2.3	213	9.0
WR	Chhattisgarh	271	0	5.3	6.0	-0.6	42	0.0
	Gujarat	13423	0	95.7	35.5	0.3	207	0.0
	MP	8236	0	300.1	76.4	6.9	705	0.0
	Maharashtra	8236	0	184.0	85.7	-3.5	262	0.0
	Goa	17083	0	374.7	119.8	-2.3	475	0.0
	DD	541	0	9.7	9.4	-0.3	33	0.0
	DD	316	0	6.9	6.7	0.2	46	0.0
	DNH	764	0	17.9	18.1	-0.2	29	0.0
SR	Essar steel	353	0	6.6	5.5	1.1	350	0.0
	Andhra Pradesh	7577	0	167.9	43.2	0.1	543	0.0
	Telangana	7710	0	170.6	69.8	-0.7	471	0.0
	Karnataka	9060	0	172.1	25.2	0.1	591	0.0
	Kerala	3003	0	60.2	43.7	1.5	204	0.0
	Tamil Nadu	12372	0	278.7	116.9	-0.5	320	0.0
	Pondy	376	0	7.4	7.7	-0.2	52	0.0
	Bihar	5710	0	117.9	113.5	-1.4	200	0.0
ER	DVC	2963	0	63.7	-30.8	0.7	110	0.0
	Jharkhand	1265	0	25.9	17.6	-1.1	90	0.0
	Odisha	4609	0	96.9	25.8	9.0	550	0.0
	West Bengal	8498	0	165.2	77.6	0.8	203	0.0
	Sikkim	77	0	0.6	1.0	-0.4	10	0.0
NER	Arunachal Pradesh	126	1	2.1	2.0	0.1	56	0.0
	Assam	1854	80	35.2	31.0	0.1	123	1.7
	Manipur	153	2	2.4	2.4	-0.1	25	0.0
	Meghalaya	279	0	5.2	2.0	0.2	57	0.0
	Mizoram	89	1	1.7	0.6	0.8	64	0.0
	Nagaland	135	1	2.1	2.4	-0.5	43	0.0
	Tripura	298	1	4.7	3.7	1.2	126	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	43.5	-4.7	-26.0
Day peak (MW)	1918.2	-430.0	-1098.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	245.6	-234.9	24.0	-51.9	18.4	1.2
Actual(MU)	220.6	-234.4	52.6	-60.0	20.0	-1.2
O/D/U/D(MU)	-25.0	0.4	28.6	-8.1	1.6	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3833	16032	7382	1200	1163	29610
State Sector	6815	19685	8110	5740	85	40435
Total	10648	35716	15492	6940	1248	70044

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	575	968	422	394	8	2368
Lignite	17	4	36	0	0	57
Hydro	359	99	89	136	16	698
Nuclear	27	31	56	0	0	114
Gas, Naptha & Diesel	38	54	16	0	17	126
RES (Wind, Solar, Biomass & Others)	45	77	222	2	0	346
Total	1060	1234	840	532	41	3707

Share of RES in total generation (%)	4.26	6.23	26.40	0.37	0.15	9.33
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	40.63	16.80	43.55	25.90	38.78	31.23

H. Diversity Factor

All India Demand Diversity Factor	1.035
-----------------------------------	-------

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 : 2-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	186	238	0.3	0.0	0.3
2		SASARAM-FATEHPUR	S/C	321	0	4.3	0.0	4.3
3		GAYA-BALIA	S/C	0	461	0.0	6.7	-6.7
4		ALIPURDUAR-AGRA	-	0	901	0.0	21.7	-21.7
5		PUSAULI B/B	S/C	0	198	0.0	4.8	-4.8
6	400 kV	PUSAULI-VARANASI	S/C	0	207	0.0	4.2	-4.2
7		PUSAULI -ALLAHABAD	S/C	0	58	0.0	0.5	-0.5
8		MUZAFFARPUR-GORAKHPUR	D/C	11	797	0.0	8.8	-8.8
9		PATNA-BALIA	Q/C	0	815	0.0	10.9	-10.9
10		BIHARSHARIFF-BALIA	D/C	0	373	0.0	5.0	-5.0
11		MOTIHARI-GORAKHPUR	D/C	0	0	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	265	6	3.3	0.0	3.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	210	0.0	4.3	-4.3
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						8.3	66.8	-58.5
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1559	0	28.2	0.0	28.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	1291	0	23.6	0.0	23.6
20		JHARSUGUDA-DURG	D/C	349	0	6.1	0.0	6.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	261	0	3.3	0.0	3.3
22		RANCHI-SIPAT	D/C	408	0	7.2	0.0	7.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	121	0.0	2.0	-2.0
24		BUDHIPADAR-KORBA	D/C	142	0	2.4	0.0	2.4
ER-WR						70.7	2.0	68.8
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2026.0	0.0	29.6	-29.6
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	316.0	0.0	7.3	0.0	7.3
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	989.0	0.0	21.4	-21.4
28	400 kV	TALCHER-I/C	D/C	554.0	30.0	7.9	0.0	7.9
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						7.3	51.0	-43.7
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	819	0.0	14.9	-15
31		ALIPURDUAR-BONGAIGAON	D/C	0	719	0.0	12.1	-12
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	197	0.0	1.3	-1
ER-NER						0.0	28.2	-28.2
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	11.1	-11.1
NER-NR						0.0	11.1	-11.1
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2503	0.0	30.5	-30.5
35		V'CHAL B/B	D/C	363	0	7.2	0.0	7.2
36		APL -MHG	D/C	0	1363	0.0	20.6	-20.6
37	765 kV	GWALIOR-AGRA	D/C	0	2770	0.0	47.2	-47.2
38		PHAGI-GWALIOR	D/C	0	866	0.0	15.1	-15.1
39		JABALPUR-ORAI	D/C	0	1002	0.0	32.6	-32.6
40		GWALIOR-ORAI	S/C	333	0	6.2	0.0	6.2
41		SATNA-ORAI	S/C	0	1410	0.0	28.3	-28.3
42		CHITTORGARH-BANASKANTHA	D/C	112	1080	0.0	10.5	10.5
43		ZERDA-KANKROLI	S/C	94	177	0.3	1.1	-0.8
44	400 kV	ZERDA -BHINMAL	S/C	65	241	0.1	2.3	-2.2
45		V'CHAL -RIHAND	S/C	961	0	22.1	0.0	22.1
46		RAPP-SHUJALPUR	D/C	11	338	0	2	-2
47	220 kV	BHANPURA-RANPUR	S/C	40	42	0.2	0.2	-0.1
48		BHANPURA-MORAK	S/C	5	80	0.0	1.0	-1.0
49		MEHGAON-AURAIYA	S/C	67	21	0.4	0.1	0.3
50		MALANPUR-AURAIYA	S/C	26	53	0.0	0.6	-0.6
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						36.4	192.1	-134.7
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	211	0.5	4.3	-3.8
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	719	956	1.0	0.0	1.0
55		WARDHA-NIZAMABAD	D/C	0	1771	0.0	21.4	-21.4
56	400 kV	KOLHAPUR-KUDGI	D/C	985	0	16.1	0.0	16.1
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	47	0.0	0.9	-0.9
59		XELDEM-AMBEWADI	S/C	0	46	0.5	0.0	0.5
WR-SR						18.1	26.7	-8.6
TRANSNATIONAL EXCHANGE								
60		BHUTAN						43.5
61		NEPAL						-4.7
62		BANGLADESH						-26.0