



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: 17th Sept 2018

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, 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 16.09.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-सितंबर-2018 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 16th September 2018, 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

17-Sep-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	52330	49172	40589	20507	2648	165246
Peak Shortage (MW)	550	0	0	650	22	1222
Energy Met (MU)	1162	1201	944	438	49	3793
Hydro Gen (MU)	256	42	97	115	30	540
Wind Gen (MU)	7	22	68	-----	-----	97
Solar Gen (MU)*	18.78	17.4	52.69	0.95	0.02	90
Energy Shortage (MU)	9.1	0.0	0.0	2.0	1.0	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	54168 19:24	52847 13:15	41906 11:43	20660 22:29	2700 18:54	167569 19:25

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	0.096	0.34	4.47	22.62	27.42	69.53	3.06

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	9023	0	205.3	89.0	-1.7	99	0.0
	Haryana	8090	0	173.1	121.0	1.2	213	0.0
	Rajasthan	9979	0	214.6	57.8	0.4	317	0.0
	Delhi	4823	0	98.4	74.4	-0.1	252	0.0
	UP	17813	0	363.4	156.5	0.3	278	0.0
	Uttarakhand	1741	0	38.0	15.4	1.3	184	0.3
	HP	1306	0	27.1	2.4	5.0	391	0.0
	J&K	1891	473	37.3	25.8	-3.1	190	8.8
	Chandigarh	257	0	4.5	4.8	-0.4	5	0.0
WR	Chhattisgarh	4144	0	99.6	32.0	-1.9	131	0.0
	Gujarat	16522	0	370.1	114.7	6.2	586	0.0
	MP	9120	0	200.7	84.6	2.1	588	0.0
	Maharashtra	22397	0	483.6	164.9	-2.8	445	0.0
	Goa	425	0	10.8	7.7	0.7	71	0.0
	DD	315	0	7.2	6.0	1.2	115	0.0
	DNH	767	0	18.1	16.9	1.2	165	0.0
	Essar steel	504	0	10.7	10.7	0.0	245	0.0
	SR	Andhra Pradesh	8167	0	174.3	41.7	-0.1	430
Telangana		10715	0	230.2	116.8	-0.3	579	0.0
Karnataka		9040	0	190.6	46.9	-2.4	431	0.0
Kerala		3302	0	65.3	39.7	0.6	303	0.0
Tamil Nadu		12199	0	276.9	108.6	-1.6	501	0.0
Pondy		322	0	6.3	6.5	-0.3	31	0.0
ER	Bihar	5017	0	97.9	95.8	1.6	398	0.0
	DVC	2956	0	57.5	-21.2	5.9	455	2.0
	Jharkhand	1000	0	24.5	17.4	-0.2	175	0.0
	Odisha	4378	0	98.7	30.1	-1.9	402	0.0
	West Bengal	8272	0	158.8	62.8	0.4	405	0.0
	Sikkim	78	0	0.9	1.4	-0.6	20	0.0
NER	Arunachal Pradesh	125	2	2.7	2.7	0.0	29	0.0
	Assam	1710	16	30.4	22.5	2.0	228	0.9
	Manipur	154	4	2.2	2.3	-0.2	45	0.0
	Meghalaya	284	1	5.1	-1.2	0.2	84	0.0
	Mizoram	76	2	1.4	0.9	0.2	13	0.0
	Nagaland	117	1	2.4	1.7	0.3	18	0.0
	Tripura	270	2	4.6	3.7	0.4	117	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	35.5	-5.0	-22.7
Day peak (MW)	1614.5	-331.0	-983.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	186.6	-177.3	42.1	-42.2	-9.1	0.0
Actual(MU)	184.6	-175.7	31.4	-36.5	-6.9	-3.1
O/D/U/D(MU)	-2.0	1.6	-10.7	5.7	2.2	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3765	13478	6142	2250	152	25786
State Sector	8650	13725	6373	7315	50	36113
Total	12415	27203	12515	9565	201	61899

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	647	1204	603	378	5	2838
Hydro	256	39	97	115	30	537
Nuclear	23	27	36	0	0	87
Gas, Naptha & Diesel	34	91	25	0	24	173
RES (Wind, Solar, Biomass & Others)	39	41	160	1	0	241
Total	999	1402	922	494	59	3876

Share of RES in total generation (%)	3.91	2.91	17.38	0.20	0.09	6.22
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.83	7.67	31.86	23.46	50.54	22.32

H. Diversity Factor

All India Demand Diversity Factor	1.028
-----------------------------------	-------

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 : 17-Sep-18

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	269	200	0.0	0.7	-0.7	
2		SASARAM-FATEHPUR	S/C	495	0	5.4	0.0	5.4	
3		GAYA-BALIA	S/C	0	285	0.0	3.3	-3.3	
4		ALIPURDUAR-AGRA	-	0	1503	0.0	37.7	-37.7	
5	400 kV	PUSAULI B/B	S/C	0	397	0.0	5.0	-5.0	
6		PUSAULI-VARANASI	S/C	0	328	0.0	4.3	-4.3	
7		PUSAULI -ALLAHABAD	S/C	22	117	0.0	0.7	-0.7	
8		MUZAFFARPUR-GORAKHPUR	D/C	121	645	0.0	7.1	-7.1	
9		PATNA-BALIA	Q/C	0	645	0.0	10.5	-10.5	
10		BIHARSHARIFF-BALIA	D/C	95	169	0.0	1.3	-1.3	
11		MOTIHARI-GORAKHPUR	D/C	291	0	4.3	0.0	4.3	
12		BIHARSHARIFF-VARANASI	D/C	374	28	2.3	0.0	2.3	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	167	0.0	2.9	-2.9
14		132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	GARWAH-RIHAND		S/C	35	0	0.6	0.0	0.6	
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						12.6	73.3	-60.7	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	848	0	11.9	0.0	11.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1127	0	14.8	0.0	14.8	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	868	0	11.1	0.0	11.1	
21		RANCHI-SIPAT	D/C	590	0	7.6	0.0	7.6	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	1	0.0	0.0	0.0	
23		BUDHIPADAR-KORBA	D/C	193	0	2.8	0.0	2.8	
ER-WR						48.2	0.0	48.2	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1292.0	0.0	21.5	-21.5	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	580.0	0.0	13.8	-13.8	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1581.0	0.0	24.5	-24.5	
27	400 kV	TALCHER-I/C	D/C	0.0	586.0	15.3	0.0	15.3	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	59.8	-59.8	
Import/Export of ER (With NER)									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	774	0.0	10.6	-11	
30		ALIPURDUAR-BONGAIGAON	D/C	482	115	5.4	0.0	5	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	22	141	0.0	2.4	-2	
ER-NER						5.4	13.0	-7.7	
Import/Export of NER (With NR)									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	701	0.0	16.3	-16.3	
NER-NR						0.0	16.3	-16.3	
Import/Export of WR (With NR)									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1000	0.0	16.5	-16.5	
34		V'CHAL B/B	D/C	243	0	5.7	0.0	5.7	
35		APL -MHG	D/C	0	1361	0.0	31.8	-31.8	
36		GWALIOR-AGRA	D/C	0	1117	0.0	38.0	-38.0	
37	765 kV	PHAGI-GWALIOR	D/C	0	1154	0.0	22.0	-22.0	
38		JABALPUR-ORAI	D/C	0	548	0.0	14.1	-14.1	
39		GWALIOR-ORAI	S/C	371	0	7.4	0.0	7.4	
40		SATNA-ORAI	S/C	0	1799	0.0	38.1	-38.1	
41		400 kV	ZERDA-KANKROLI	S/C	400	0	5.9	0.0	5.9
42			ZERDA -BHINMAL	S/C	256	55	3.1	0.0	3.1
43	V'CHAL -RIHAND		S/C	974	0	22.3	0.0	22.3	
44	RAPP-SHUJALPUR		D/C	161	275	0	0	0	
45	220 kV	BADOD-KOTA	S/C	71	9	1.1	0.0	1.1	
46		BADOD-MORAK	S/C	63	12	0.4	0.0	0.4	
47		MEHGAON-AURAIYA	S/C	54	0	0.5	0.0	0.5	
48		MALANPUR-AURAIYA	S/C	26	24	0.1	0.2	-0.1	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						46.6	160.8	-114.3	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	0	985	0.0	23.0	-23.0	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	1267	181	13.6	0.0	13.6	
53		WARDHA-NIZAMABAD	D/C	0	1612	0.0	24.0	-24.0	
54	400 kV	KOLHAPUR-KUDGI	D/C	1024	0	19.4	0.0	19.4	
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	0	96	2.1	0.0	2.1	
WR-SR						35.1	47.0	-12.0	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						35.5	
59		NEPAL						-5.0	
60		BANGLADESH						-22.7	