National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 6th Dec 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., डोंगतिएह, 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 05.12.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-दिसम्बर-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 5th December 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** **6-Dec-18**

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	43373	48652	40135	17362	2334	151856
Peak Shortage (MW)	575	0	0	0	24	599
Energy Met (MU)	933	1149	890	346	38	3357
Hydro Gen (MU)	119	35	83	27	7	270
Wind Gen (MU)	4	22	25	----------	----------	51
Solar Gen (MU)*	19.73	16.8	44.55	0.21	0.04	81
Energy Shortage (MU)	13.9	0.0	0.0	0.0	0.6	14.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44227	54761	42481	18116	2382	155587
	18:31	11:03	07:42	18:36	17:22	18:36

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	0.064	0.00	1.85	17.23	19.09	75.53	5.38

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	5509	0	132.5	42.2	0.4	167	0.0
	Haryana	6524	0	129.7	62.2	3.8	307	0.0
	Rajasthan	12278	0	234.3	66.9	0.4	439	0.0
	Delhi	3437	0	63.8	46.8	0.1	221	0.0
	UP	12734	0	257.4	107.3	0.4	252	1.9
	Uttarakhand	1923	0	36.7	24.2	1.3	202	0.0
	HP	1549	34	28.0	20.0	0.4	222	0.6
	J&K	2335	584	47.8	40.4	1.9	296	11.4
	Chandigarh	194	0	3.3	3.2	0.1	39	0.0
WR	Chhattisgarh	3575	0	76.2	11.0	0.4	438	0.0
	Gujarat	14945	0	324.2	109.5	-0.3	479	0.0
	MP	13580	0	259.9	141.2	0.4	637	0.0
	Maharashtra	21603	0	444.3	122.4	-0.5	982	0.0
	Goa	491	0	10.7	9.5	0.6	56	0.0
	DD	310	0	6.9	6.0	0.8	91	0.0
	DNH	738	0	17.0	16.0	1.0	74	0.0
	Essar steel	517	0	10.3	10.4	-0.1	286	0.0
SR	Andhra Pradesh	7718	0	164.4	64.4	0.3	530	0.0
	Telangana	8126	0	172.2	65.6	1.7	536	0.0
	Karnataka	10581	0	204.2	73.9	0.4	663	0.0
	Kerala	3706	0	72.5	58.5	1.1	255	0.0
	Tamil Nadu	13000	0	270.2	126.0	2.3	1447	0.0
	Pondy	331	0	6.7	6.7	0.0	27	0.0
ER	Bihar	4056	0	71.6	69.2	-0.6	460	0.0
	DVC	2835	0	62.0	-19.3	0.8	396	0.0
	Jharkhand	1101	0	24.0	14.3	-0.4	169	0.0
	Odisha	3496	0	77.8	26.8	3.5	267	0.0
	West Bengal	6045	0	108.8	20.2	0.4	309	0.0
	Sikkim	91	0	1.6	1.6	0.0	18	0.0
NER	Arunachal Pradesh	101	2	2.1	1.8	0.3	65	0.0
	Assam	1333	11	21.0	17.9	-1.0	89	0.2
	Manipur	173	2	2.5	2.7	-0.3	40	0.0
	Meghalaya	376	1	5.9	5.2	-0.3	86	0.3
	Mizoram	89	2	1.6	1.1	0.0	24	0.0
	Nagaland	112	3	2.0	1.7	0.2	37	0.0
	Tripura	217	1	3.3	1.5	-0.2	43	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.2	-3.8	-15.3
Day peak (MW)	220.8	-172.0	-819.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	161.1	-175.3	85.7	-76.4	4.9	-0.1
Actual(MU)	161.9	-180.6	86.6	-70.4	1.5	-0.9
O/D/U/D(MU)	0.8	-5.2	0.9	6.0	-3.4	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4317	16187	7842	1495	356	30198
State Sector	10175	13061	7670	5305	50	36261
Total	14492	29248	15512	6800	406	66458

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	539	1195	514	414	4	2667
Lignite	20	16	45	0	0	81
Hydro	119	35	83	27	7	270
Nuclear	25	19	36	0	0	80
Gas, Naptha & Diesel	27	38	22	0	28	116
RES (Wind, Solar, Biomass & Others)	59	40	109	0	0	209
Total	789	1344	809	441	40	3423

Share of RES in total generation (%)	7.52	3.01	13.43	0.06	0.10	6.10
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.71	7.04	28.12	6.09	17.59	16.33

H. Diversity Factor

All India Demand Diversity Factor	1.041

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.

कार्यपालक निदेशक (रा० भा० प्रे० के०)

INTER-REGIONAL EXCHANGES

Date of Reporting : **6-Dec-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	0	0	0.0	6.4	-6.4
2		SASARAM-FATEHPUR	S/C	0	0	0.0	3.0	-3.0
3		GAYA-BALIA	S/C	0	0	0.0	4.8	-4.8
4	**HVDC**	ALIPURDUAR-AGRA	-	0	0	0.0	3.2	-3.2
5		PUSAULI B/B	S/C	0	0	0.0	0.0	0.0
6	**400 kV**	PUSAULI-VARANASI	S/C	0	0	0.6	0.0	0.6
7		PUSAULI -ALLAHABAD	S/C	0	0	0.8	0.0	0.8
8		MUZAFFARPUR-GORAKHPUR	D/C	0	0	0.0	0.1	-0.1
9		PATNA-BALIA	Q/C	0	0	0.0	15.9	-15.9
10		BIHARSHARIFF-BALIA	D/C	0	0	0.0	3.1	-3.1
11		MOTIHARI-GORAKHPUR	D/C	0	0	0.0	7.5	-7.5
12		BIHARSHARIFF-VARANASI	D/C	0	0	0.0	0.2	-0.2
13	**220 kV**	PUSAULI-SAHUPURI	S/C	0	0	0.0	2.5	-2.5
14	**132 kV**	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	0	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	**1.9**	**46.8**	**-44.9**
Import/Export of ER (With WR)								
18	**765 kV**	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	0	0	18.6	0.0	18.6
19		NEW RANCHI-DHARAMJAIGARH	D/C	0	0	2.0	0.0	2.0
20	**400 kV**	JHARSUGUDA-RAIGARH	Q/C	0	0	0.6	0.0	0.6
21		RANCHI-SIPAT	D/C	0	0	3.9	0.0	3.9
22	**220 kV**	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	1.0	-1.0
23		BUDHIPADAR-KORBA	D/C	0	0	3.1	0.0	3.1
					ER-WR	**28.3**	**1.0**	**27.3**
Import/Export of ER (With SR)								
24	**765 kV**	ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	27.8	-27.8
25	**HVDC LINK**	JEYPORE-GAZUWAKA B/B	D/C	0.0	0.0	0.0	9.8	-9.8
26		TALCHER-KOLAR BIPOLE	D/C	0.0	0.0	0.0	42.8	-42.8
27	**400 kV**	TALCHER-I/C	D/C	0.0	0.0	1.3	0.0	1.3
28	**220 kV**	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**80.4**	**-80.4**
Import/Export of ER (With NER)								
29	**400 kV**	BINAGURI-BONGAIGAON	D/C	0	0	0.0	7.8	-8
30		ALIPURDUAR-BONGAIGAON	D/C	0	0	0.0	6.3	-6
31	**220 kV**	ALIPURDUAR-SALAKATI	D/C	0	0	0.0	2.4	-2
					ER-NER	**0.0**	**16.5**	**-16.5**
Import/Export of NER (With NR)								
32	**HVDC**	BISWANATH CHARIALI-AGRA	-	6	704	0.0	14.1	-14.1
					NER-NR	**0.0**	**14.1**	**-14.1**
Import/Export of WR (With NR)								
33	**HVDC**	CHAMPA-KURUKSHETRA	D/C	0	1400	0.0	29.6	-29.6
34		V'CHAL B/B	D/C	240	0	6.1	0.0	6.1
35		APL -MHG	D/C	0	1173	0.0	24.0	-24.0
36	**765 kV**	GWALIOR-AGRA	D/C	0	856	0.0	32.0	-32.0
37		PHAGI-GWALIOR	D/C	0	1154	0.0	18.1	-18.1
38		JABALPUR-ORAI	D/C	136	293	0.0	8.1	-8.1
39		GWALIOR-ORAI	S/C	518	0	8.0	0.0	8.0
40		SATNA-ORAI	S/C	0	1652	0.0	36.3	-36.3
41	**400 kV**	ZERDA-KANKROLI	S/C	202	89	2.5	0.0	2.5
42		ZERDA -BHINMAL	S/C	52	273	1.3	0.0	1.3
43		V'CHAL -RIHAND	S/C	983	0	22.4	0.0	22.4
44		RAPP-SHUJALPUR	D/C	322	22	2	0	2
45	**220 kV**	BADOD-KOTA	S/C	43	10	1.3	0.0	1.3
46		BADOD-MORAK	S/C	33	60	0.2	0.2	0.0
47		MEHGAON-AURAIYA	S/C	99	0	1.2	0.0	1.2
48		MALANPUR-AURAIYA	S/C	58	7	0.4	0.0	0.4
49	**132kV**	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**45.2**	**148.2**	**-103.1**
Import/Export of WR (With SR)								
50	**HVDC LINK**	BHADRAWATI B/B	-	0	995	0.0	23.8	-23.8
51		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	**765 kV**	SOLAPUR-RAICHUR	D/C	826	1565	0.0	16.5	-16.5
53		WARDHA-NIZAMABAD	D/C	0	2051	0.0	29.6	-29.6
54	**400 kV**	KOLHAPUR-KUDGI	D/C	2016	0	18.7	0.0	18.7
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	64	1.2	0.0	1.2
					WR-SR	**19.9**	**69.8**	**-49.9**
TRANSNATIONAL EXCHANGE								
58		BHUTAN						**4.2**
59		NEPAL						**-3.8**
60		BANGLADESH						**-15.3**