



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: 6th Jan 2020

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, 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., डोंगतेह, 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 05.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-जनवरी-2020 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 05th Jan 2020, 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-Jan-20

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	46083	44572	37187	16876	2140	146858
Peak Shortage (MW)	594	30	0	0	199	823
Energy Met (MU)	946	1050	906	330	39	3271
Hydro Gen (MU)	116	36	81	31	9	273
Wind Gen (MU)	5	62	25	-----	-----	91
Solar Gen (MU)*	15.64	22.40	73.03	1.26	0.02	112
Energy Shortage (MU)	12.5	0.4	0.0	0.0	2.5	15.4
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47926 09:50	50790 11:01	44155 08:29	16981 18:02	2328 17:30	158307 09:40

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	0.037	0.00	0.12	5.69	5.81	78.95	15.24

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	5484	0	107.5	51.7	-1.4	0	0.0
	Haryana	6308	0	121.4	74.1	0.4	179	0.0
	Rajasthan	13146	0	237.2	81.1	-2.3	676	0.0
	Delhi	4182	0	69.0	58.1	0.0	239	0.0
	UP	15637	150	289.4	121.8	1.7	887	0.5
	Uttarakhand	2008	0	37.0	20.2	0.5	131	0.0
	HP	1614	0	29.2	22.6	0.3	187	0.0
	J&K(UT) and Ladakh(UT)	2538	634	51.2	43.6	2.1	640	12.0
	Chandigarh	227	0	3.8	3.9	0.0	20	0.0
WR	Chhattisgarh	3449	0	74.2	19.0	-1.8	296	0.0
	Gujarat	15059	0	307.9	79.7	-0.6	470	0.0
	MP	12702	0	228.8	109.9	-3.5	322	0.0
	Maharashtra	19648	0	398.2	126.0	-3.1	598	0.0
	Goa	410	0	10.9	8.4	2.0	33	0.4
	DD	286	0	6.5	6.3	0.2	29	0.0
	DNH	774	0	18.1	18.1	0.0	89	0.0
	Essar steel	360	0	5.6	5.4	0.2	270	0.0
	Andhra Pradesh	8042	0	160.8	63.0	-1.2	382	0.0
SR	Telangana	9597	0	190.8	104.6	1.2	462	0.0
	Karnataka	11072	0	201.0	49.1	-1.1	544	0.0
	Kerala	3432	0	68.2	55.8	1.0	187	0.0
	Tamil Nadu	12672	0	279.2	160.7	0.2	392	0.0
	Pondy	324	0	6.5	6.7	-0.2	57	0.0
ER	Bihar	4299	0	76.2	77.7	-2.9	200	0.0
	DVC	2945	0	62.5	-30.5	-1.2	250	0.0
	Jharkhand	1310	0	23.3	18.6	-1.1	100	0.0
	Odisha	3477	0	63.6	3.6	-0.5	200	0.0
	West Bengal	5550	0	102.9	24.1	-0.3	300	0.0
Sikkim	111	0	1.6	1.6	0.0	40	0.0	
NER	Arunachal Pradesh	122	3	2.3	1.9	0.2	54	0.0
	Assam	1260	134	20.7	16.8	0.5	129	1.9
	Manipur	183	3	2.6	3.0	-0.4	30	0.0
	Meghalaya	356	5	6.2	3.2	0.7	69	0.6
	Mizoram	112	2	1.8	1.4	0.2	34	0.0
	Nagaland	128	1	2.1	2.1	-0.2	23	0.0
Tripura	224	24	3.3	1.5	0.8	140	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.3	-9.2	-10.0
Day peak (MW)	577.9	-493.0	-769.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	222.0	-254.2	116.4	-82.6	-1.5	0.1
Actual(MU)	225.7	-285.1	137.0	-81.3	-0.3	-4.1
O/D/U/D(MU)	3.7	-31.0	20.6	1.3	1.3	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4843	16493	8482	2310	732	32859
State Sector	12539	17756	9100	5010	11	44416
Total	17382	34248	17582	7320	743	77275

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	497	1153	453	415	13	2531
Lignite	24	12	48	0	0	84
Hydro	116	36	81	31	9	273
Nuclear	29	28	41	0	0	97
Gas, Naptha & Diesel	26	29	18	0	22	96
RES (Wind, Solar, Biomass & Others)	48	91	142	1	0	282
Total	741	1349	783	447	44	3364

Share of RES in total generation (%)	6.54	6.74	18.08	0.29	0.05	8.39
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	26.12	11.47	33.65	7.16	20.13	19.40

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.068

Diversity factor = Sum of regional or state-wise 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 : **6-Jan-20**

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)								
4	HVDC	ALIPURDUAR-AGRA	-	0	500	0.0	12.3	-12.3
5		PUSAULI B/B	S/C	0	297	0.0	7.4	-7.4
1	765kV	GAYA-VARANASI	D/C	13	820	0.0	8.9	-8.9
2		SASARAM-FATEHPUR	S/C	84	335	0.0	2.1	-2.1
3		GAYA-BALIA	S/C	0	401	0.0	6.3	-6.3
6	400 kV	PUSAULI-VARANASI	S/C	0	239	0.0	5.0	-5.0
7		PUSAULI -ALLAHABAD	S/C	0	153	0.0	2.3	-2.3
8		MUZAFFARPUR-GORAKHPUR	D/C	61	673	0.0	4.3	-4.3
9		PATNA-BALIA	Q/C	0	867	0.0	12.8	-12.8
10		BIHARSHARIFF-BALIA	D/C	12	318	0.0	2.8	-2.8
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	151	272	0.0	0.0	0.0
13		220 kV	PUSAULI-SAHUPURI	S/C	0	97	0.0	1.3
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.7	0.0	0.7
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						0.7	45.7	-45.1
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5965	0	21.3	0.0	21.3
19		NEW RANCHI-DHARAMJAIGARH	D/C	590	174	5.4	0.0	5.4
20		JHARSUGUDA-DURG	D/C	116	0	0.4	0.0	0.4
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	286	60	2.8	0.0	2.8
22		RANCHI-SIPAT	D/C	255	23	2.8	0.0	2.8
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	87	0.0	1.1	-1.1
24		BUDHIPADAR-KORBA	D/C	183	0	3.3	0.0	3.3
ER-WR						36.0	1.1	34.9
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	666.0	0.0	16.2	-16.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2466.0	0.0	49.0	-49.0
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1839.0	0.0	33.1	-33.1
28	400 kV	TALCHER-I/C	D/C	328.0	1260.0	0.0	9.8	-9.8
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	98.3	-98.3
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	279	0.0	2.6	-3
31		ALIPURDUAR-BONGAIGAON	D/C	238	35	2.9	0.0	3
32	220 kV	ALIPURDUAR-SALAKATI	D/C	25	41	0.0	0.1	0
ER-NER						2.9	2.7	0.2
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	0	0.0	0.0	0.0
NER-NR						0.0	0.0	0.0
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2055	0.0	40.3	-40.3
35		VCHAL B/B	D/C	360	0	9.7	0.0	9.7
36		APL -MHG	D/C	0	2106	0.0	47.2	-47.2
37	765 kV	GWALIOR-AGRA	D/C	0	2428	0.0	41.7	-41.7
38		PHAGI-GWALIOR	D/C	0	1586	0.0	18.1	-18.1
39		JABALPUR-ORAI	D/C	0	893	0.0	27.2	-27.2
40		GWALIOR-ORAI	S/C	607	0	9.7	0.0	9.7
41		SATNA-ORAI	S/C	0	1439	0.0	28.0	-28.0
42		CHITTORGARH-BANASKANTHA	D/C	455	574	0.1	0.0	0.0
43	400 kV	ZERDA-KANKROLI	S/C	170	92	1.4	0.0	1.4
44		ZERDA -BHINMAL	S/C	85	331	0.0	2.0	-2.0
45		VCHAL-RIHAND	S/C	983	0	16.0	0.0	16.0
46		RAPP-SHUJALPUR	D/C	92	441	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	6	55	0.4	0.3	0.1
48		BHANPURA-MORAK	S/C	16	92	0.1	1.0	-0.9
49		MEHGAON-AURAIYA	S/C	94	0	1.3	0.0	1.3
50	132kV	MALANPUR-AURAIYA	S/C	37	22	0.3	0.0	0.3
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						39.0	207.1	-168.2
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	620	0.0	12.9	-12.9
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	5	2202	0.0	29.3	-29.3
55		WARDHA-NIZAMABAD	D/C	0	2215	0.0	41.2	-41.2
56	400 kV	KOLHAPUR-KUDGI	D/C	490	229	3.8	0.8	3.0
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	76	1.3	0.0	1.3
WR-SR						5.1	84.2	-79.0
TRANSNATIONAL EXCHANGE								
60		BHUTAN						5.3
61		NEPAL						-9.2
62		BANGLADESH						-10.0