



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: 7th 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., 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 06.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06th Jan 2020, is available at the NLDC website.

धन्यवाद,

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)	48262	47898	40059	18384	2433	157036
Peak Shortage (MW)	663	0	0	0	27	690
Energy Met (MU)	970	1099	948	339	41	3397
Hydro Gen (MU)	114	56	95	33	9	307
Wind Gen (MU)	12	57	55	-----	-----	124
Solar Gen (MU)*	15.78	24.00	63.92	1.38	0.04	105
Energy Shortage (MU)	12.6	0.0	0.0	0.0	1.0	13.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49436 09:44	53508 10:38	46524 09:43	18252 18:29	2525 17:34	165753 09:44

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	0.058	0.13	1.70	11.98	13.81	72.88	13.31

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	5440	0	108.2	57.7	-1.6	70	0.0
	Haryana	6566	0	125.7	79.9	-0.3	123	0.0
	Rajasthan	13442	0	240.7	77.5	-0.9	457	0.0
	Delhi	4341	0	73.8	62.1	0.0	249	0.0
	UP	15303	0	294.0	124.9	-2.3	492	0.0
	Uttarakhand	2106	0	40.4	24.4	0.4	130	0.2
	HP	1665	0	30.8	24.1	0.3	185	0.0
	J&K(UT) and Ladakh(UT)	2650	663	52.0	45.5	1.4	378	12.3
	Chandigarh	274	0	4.6	4.6	0.1	43	0.0
WR	Chhattisgarh	3572	0	75.2	18.2	-1.2	333	0.0
	Gujarat	15734	0	318.9	83.7	1.6	749	0.0
	MP	13347	0	238.3	112.3	-3.3	388	0.0
	Maharashtra	21200	0	422.9	129.3	4.3	701	0.0
	Goa	500	0	12.7	9.6	2.5	46	0.0
	DD	315	0	6.9	6.7	0.2	34	0.0
	DNH	816	0	18.6	18.5	0.1	40	0.0
	Essar steel	310	0	5.3	5.8	-0.5	236	0.0
	Andhra Pradesh	7842	0	161.9	59.7	-0.6	298	0.0
SR	Telangana	10103	0	201.0	111.3	0.6	504	0.0
	Karnataka	11658	0	213.2	53.1	-1.4	524	0.0
	Kerala	3751	0	73.7	55.7	0.8	207	0.0
	Tamil Nadu	14111	0	290.7	154.5	0.0	633	0.0
	Pondy	367	0	7.2	7.5	-0.3	42	0.0
	Bihar	4483	0	80.1	77.7	1.0	170	0.0
ER	DVC	3048	0	62.1	-33.7	-1.2	200	0.0
	Jharkhand	1336	0	24.6	16.5	-1.1	60	0.0
	Odisha	3661	0	64.2	-0.1	-0.5	500	0.0
	West Bengal	6081	0	106.4	23.1	-0.1	290	0.0
	Sikkim	144	0	2.0	1.6	0.5	60	0.0
	Arunachal Pradesh	117	1	2.1	1.9	0.1	49	0.0
NER	Assam	1382	9	22.6	18.0	0.7	138	0.3
	Manipur	203	0	2.6	2.9	-0.3	34	0.0
	Meghalaya	377	0	6.3	3.1	0.8	93	0.7
	Mizoram	103	1	1.8	1.5	-0.2	21	0.0
	Nagaland	128	2	2.2	2.1	-0.1	10	0.0
	Tripura	217	0	3.3	2.0	0.8	69	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.5	-9.5	-10.0
Day peak (MW)	534.1	-523.6	-756.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	244.0	-274.1	124.5	-93.6	-0.7	0.1
Actual(MU)	243.9	-284.4	130.9	-88.6	0.4	2.2
O/D/U/D(MU)	-0.2	-10.3	6.4	5.1	1.2	2.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4093	15565	7982	2810	732	31181
State Sector	11051	17568	7900	5050	11	41580
Total	15144	33132	15882	7860	743	72761

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	500	1184	467	427	15	2593
Lignite	24	11	43	0	0	78
Hydro	114	56	95	33	9	307
Nuclear	29	28	40	0	0	97
Gas, Naptha & Diesel	22	35	18	0	22	97
RES (Wind, Solar, Biomass & Others)	56	92	167	1	0	316
Total	745	1405	830	462	45	3487

Share of RES in total generation (%)	7.54	6.55	20.08	0.30	0.09	9.07
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	26.75	12.48	36.40	7.51	19.24	20.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.066

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 :	7-Jan-20
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
Import/Export of ER (With NR)									
4	HVDC	ALIPURDUAR-AGRA	-	0	501	0.0	12.4	-12.4	
5		PUSAULI B/B	S/C	0	299	0.0	7.1	-7.1	
1	765kV	GAYA-VARANASI	D/C	54	709	0.0	7.2	-7.2	
2		SASARAM-FATEHPUR	S/C	113	411	0.0	2.8	-2.8	
3		GAYA-BALIA	S/C	0	569	0.0	7.9	-7.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	249	0.0	5.0	-5.0	
7		PUSAULI -ALLAHABAD	S/C	0	151	0.0	2.0	-2.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	118	681	0.0	4.4	-4.4	
9		PATNA-BALIA	Q/C	0	911	0.0	13.3	-13.3	
10		BIHARSHARIFF-BALIA	D/C	22	367	0.0	3.8	-3.8	
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	161	339	0.0	0.7	-0.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	115	0.0	1.5	-1.5	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	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						0.6	48.4	-47.9	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1510	120	17.9	0.0	17.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	618	130	5.7	0.0	5.7	
20		JHARSUGUDA-DURG	D/C	162	113	0.0	0.0	0.0	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	316	129	2.3	0.0	2.3	
22		RANCHI-SIPAT	D/C	242	6	2.7	0.0	2.7	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	7	78	0.0	1.0	-1.0	
24		BUDHIPADAR-KORBA	D/C	186	0	3.2	0.0	3.2	
ER-WR						31.8	1.0	30.8	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	665.0	0.0	16.2	-16.2	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2470.0	0.0	49.0	-49.0	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1841.0	0.0	31.8	-31.8	
28	400 kV	TALCHER-I/C	D/C	0.0	990.0	0.0	10.9	-10.9	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	96.9	-96.9	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	267	0.0	3.0	-3	
31		ALIPURDUAR-BONGAIGAON	D/C	210	31	2.7	0.0	3	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	10	53	0.0	0.3	0	
ER-NER						2.7	3.2	-0.5	
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	2605	0.0	43.6	-43.6	
35		V'CHAL B/B	D/C	448	251	5.5	1.4	4.1	
36		APL -MHG	D/C	0	1923	0.0	42.3	-42.3	
37	765 kV	GWALIOR-AGRA	D/C	0	2642	0.0	41.7	-41.7	
38		PHAGI-GWALIOR	D/C	0	1674	0.0	18.0	-18.0	
39		JABALPUR-ORAI	D/C	0	973	0.0	30.2	-30.2	
40		GWALIOR-ORAI	S/C	636	0	9.8	0.0	9.8	
41		SATNA-ORAI	S/C	0	1453	0.0	28.2	-28.2	
42	400 kV	CHITTORGARH-BANASKANTHA	D/C	336	652	1.4	3.2	-1.8	
43		ZERDA-KANKROLI	S/C	158	89	1.4	0.0	1.4	
44		ZERDA -BHINMAL	S/C	176	305	0.0	2.0	-2.0	
45		V'CHAL -RIHAND	S/C	880	0	12.4	0.0	12.4	
46		RAPP-SHUJALPUR	D/C	150	461	0	2	-2	
47		BHANPURA-RANPUR	S/C	21	69	0.3	0.5	-0.3	
48		220 kV	BHANPURA-MORAK	S/C	8	138	0.0	1.3	-1.3
49	MEHGAON-AURAIYA		S/C	100	0	1.3	0.0	1.3	
50	MALANPUR-AURAIYA		S/C	42	23	0.3	0.0	0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						32.3	214.1	-181.8	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	813	0.0	14.6	-14.6	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	349	2157	0.2	25.4	-25.2	
55		WARDHA-NIZAMABAD	D/C	0	2461	0.0	39.6	-39.6	
56	400 kV	KOLHAPUR-KUDGI	D/C	478	46	4.4	0.0	4.4	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
59		XELDEM-AMBEWADI	S/C	0	92	1.4	0.0	1.4	
WR-SR						6.1	79.5	-73.5	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.5	
61		NEPAL						-9.5	
62		BANGLADESH						-10.0	