



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: 02st Feb 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 01.02.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-फरवरी-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 01st Feb 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)	46495	47849	41290	17755	2445	155834
Peak Shortage (MW)	651	0	0	0	26	677
Energy Met (MU)	950	1154	1021	356	42	3524
Hydro Gen (MU)	126	40	78	30	5	279
Wind Gen (MU)	6	60	34	-----	-----	100
Solar Gen (MU)*	37.34	27.30	90.08	1.54	0.04	156
Energy Shortage (MU)	14.0	0.0	0.0	0.0	0.5	14.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47885 09:56	55810 11:00	48717 10:11	18177 18:35	2447 18:24	168671 09:45

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	0.033	0.00	0.00	3.41	3.41	75.29	21.30

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	5804	0	111.6	67.4	-1.2	64	0.0
	Haryana	6291	0	124.7	89.1	0.3	162	0.0
	Rajasthan	13796	0	243.7	76.9	-0.3	452	0.0
	Delhi	4006	0	68.0	53.0	-1.2	173	0.0
	UP	15176	545	276.9	112.8	0.9	740	2.1
	Uttarakhand	2100	0	39.2	23.9	0.3	132	0.0
	HP	1742	0	30.8	24.3	-1.0	136	0.0
	J&K(UT) and Ladakh(UT)	2603	651	51.1	45.5	0.3	384	11.9
	Chandigarh	245	0	4.0	3.9	0.1	37	0.0
WR	Chhattisgarh	3792	0	80.8	38.0	-1.4	216	0.0
	Gujarat	15562	0	324.0	72.8	2.5	663	0.0
	MP	14444	0	264.8	126.9	-3.5	319	0.0
	Maharashtra	21830	0	443.4	144.5	-2.4	406	0.0
	Goa	534	0	10.6	10.4	0.1	49	0.0
	DD	309	0	7.0	6.9	0.1	31	0.0
	DNH	766	0	17.8	18.0	-0.2	30	0.0
	Essar steel	667	0	5.8	6.1	-0.3	244	0.0
	Andhra Pradesh	9299	0	188.6	64.9	-0.1	326	0.0
SR	Telangana	10994	0	210.8	105.7	0.9	784	0.0
	Karnataka	12311	0	233.8	68.3	-0.5	405	0.0
	Kerala	3585	0	73.7	57.5	2.1	382	0.0
	Tamil Nadu	14246	0	306.3	156.8	0.0	453	0.0
	Pondy	365	0	7.6	7.7	-0.2	40	0.0
	Bihar	4212	0	76.8	74.9	0.2	270	0.0
ER	DVC	2924	0	63.3	-35.0	0.7	240	0.0
	Jharkhand	1233	0	24.1	22.7	-0.3	120	0.0
	Odisha	3810	0	70.1	2.0	0.4	285	0.0
	West Bengal	6224	0	119.8	27.8	0.5	300	0.0
	Sikkim	136	0	2.1	1.8	0.3	50	0.0
NER	Arunachal Pradesh	125	1	2.2	2.2	-0.1	50	0.0
	Assam	1345	16	23.0	19.4	0.9	128	0.2
	Manipur	215	1	2.6	3.1	-0.5	28	0.0
	Meghalaya	372	0	6.6	6.1	-0.3	30	0.3
	Mizoram	109	1	1.7	1.7	-0.2	22	0.0
	Nagaland	129	2	2.1	2.2	-0.2	9	0.0
Tripura	244	1	4.0	1.7	0.0	40	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.1	-7.6	-9.7
Day peak (MW)	509.8	-441.2	-752.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	237.2	-281.2	107.6	-70.8	7.1	0.0
Actual(MU)	231.9	-296.7	133.0	-79.5	7.4	-4.0
O/D/U/D(MU)	-5.4	-15.5	25.4	-8.8	0.3	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5728	14493	6722	2875	613	30431
State Sector	12425	15645	6260	5770	11	40111
Total	18153	30138	12982	8645	625	70542

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	461	1223	543	425	11	2663
Lignite	27	13	52	0	0	92
Hydro	126	40	78	30	5	279
Nuclear	24	33	39	0	0	96
Gas, Naptha & Diesel	29	33	17	0	23	102
RES (Wind, Solar, Biomass & Others)	73	101	162	2	0	337
Total	740	1443	891	457	39	3571

Share of RES in total generation (%)	9.87	6.97	18.20	0.34	0.10	9.45
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.16	12.06	31.38	6.92	12.23	19.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.076

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 :	2-Feb-20
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	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	297	0.0	7.3	-7.3	
1	765kV	GAYA-VARANASI	D/C	79	615	0.0	8.2	-8.2	
2		SASARAM-FATEHPUR	S/C	78	270	0.0	3.2	-3.2	
3		GAYA-BALIA	S/C	0	436	0.0	7.7	-7.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	265	0.0	5.1	-5.1	
7		PUSAULI -ALLAHABAD	S/C	0	118	0.0	2.0	-2.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	473	0.0	6.2	-6.2	
9		PATNA-BALIA	Q/C	0	740	0.0	10.0	-10.0	
10		BIHARSHARIFF-BALIA	D/C	0	397	0.0	7.0	-7.0	
11		MOTIHARI-GORAKHPUR	D/C	0	125	0.0	3.5	-3.5	
12		BIHARSHARIFF-VARANASI	D/C	166	152	0.0	0.5	-0.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	42	28	0.1	0.0	0.1	
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						0.8	60.6	-59.8	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1470	0	22.3	0.0	22.3	
19		NEW RANCHI-DHARAMJAIGARH	D/C	704	57	7.8	0.0	7.8	
20		JHARSUGUDA-DURG	D/C	197	9	1.2	0.0	1.2	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	84	415	0.0	3.8	-3.8	
22		RANCHI-SIPAT	D/C	275	9	2.9	0.0	2.9	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	113	0.0	1.3	-1.3	
24		BUDHIPADAR-KORBA	D/C	136	0	2.4	0.0	2.4	
ER-WR						36.5	5.1	31.4	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	537.0	0.0	12.3	-12.3	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1986.0	0.0	43.8	-43.8	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2558.0	0.0	48.7	-48.7	
28	400 kV	TALCHER-I/C	D/C	451.0	328.0	1.1	0.0	1.1	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	104.8	-104.8	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	175	219	1.1	0.8	0	
31		ALIPURDUAR-BONGAIGAON	D/C	276	220	0.8	0.0	1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	59	47	0.2	0.0	0	
ER-NER						2.0	0.8	1.2	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	474	0	9.2	0.0	9.2	
NER-NR						9.2	0.0	9.2	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	3010	0.0	39.6	-39.6	
35		VCHAL B/B	D/C	447	0	9.1	0.0	9.1	
36	765 kV	APL -MHG	D/C	0	2286	0.0	41.6	-41.6	
37		GWALIOR-AGRA	D/C	0	2845	0.0	48.7	-48.7	
38		PHAGI-GWALIOR	D/C	0	1536	0.0	21.7	-21.7	
39		JABALPUR-ORAI	D/C	0	961	0.0	32.1	-32.1	
40		GWALIOR-ORAI	S/C	713	0	10.7	0.0	10.7	
41		SATNA-ORAI	S/C	0	1468	0.0	30.4	-30.4	
42		CHITTORGARH-BANASKANTHA	D/C	0	1106	0.0	10.9	-10.9	
43	400 kV	ZERDA-KANKROLI	S/C	92	190	0.6	0.0	0.6	
44		ZERDA -BHINMAL	S/C	58	439	0.0	3.4	-3.4	
45		VCHAL-RIHAND	S/C	981	0	22.7	0.0	22.7	
46	220 kV	RAPP-SHUJALPUR	D/C	148	344	0	2	-2	
47		BHANPURA-RANPUR	S/C	9	105	0.2	0.7	-0.5	
48		BHANPURA-MORAK	S/C	21	136	0.0	1.4	-1.4	
49		MEHGAON-AURAIYA	S/C	85	9	1.0	0.0	1.0	
50		MALANPUR-AURAIYA	S/C	45	40	0.3	0.1	0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						44.7	232.9	-188.2	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1002	0.0	19.8	-19.8	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	621	1939	0.0	24.3	-24.3	
55		WARDHA-NIZAMABAD	D/C	0	2406	0.0	40.6	-40.6	
56	400 kV	KOLHAPUR-KUDGI	D/C	803	42	8.1	0.0	8.1	
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	1	80	0.9	0.0	0.8	
WR-SR						8.9	84.8	-75.9	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						3.1	
61		NEPAL						-7.6	
62		BANGLADESH						-9.7	