



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: 24th 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 23.02.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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)	40900	47257	42281	16869	2326	149633
Peak Shortage (MW)	591	0	0	0	26	617
Energy Met (MU)	882	1203	1040	344	38	3506
Hydro Gen (MU)	132	37	84	28	4	286
Wind Gen (MU)	15	50	68	-----	-----	133
Solar Gen (MU)*	35.53	26.60	100.84	1.42	0.02	164
Energy Shortage (MU)	10.7	0.0	0.0	0.0	0.3	10.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44649 09:15	57425 11:00	49232 09:31	17685 18:38	2339 18:33	166950 09:35

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	0.038	0.00	0.00	5.16	5.16	74.98	19.86

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	5674	0	114.3	72.6	-1.3	67	0.0
	Haryana	5697	0	112.1	79.0	0.7	254	0.0
	Rajasthan	13363	0	236.3	68.3	-2.1	386	0.0
	Delhi	3561	0	59.4	44.0	-0.5	208	0.0
	UP	13287	0	250.7	127.2	0.6	883	0.0
	Uttarakhand	1797	0	32.7	13.7	0.3	123	0.0
	HP	1511	0	25.8	18.8	-0.2	188	0.0
	J&K(UT) and Ladakh(UT)	2432	608	47.6	42.4	-0.2	229	10.6
	Chandigarh	190	0	3.1	3.3	-0.2	12	0.0
WR	Chhattisgarh	3912	0	86.0	45.6	-1.8	259	0.0
	Gujarat	15876	0	341.7	105.1	5.0	508	0.0
	MP	13172	0	252.0	125.6	-5.3	427	0.0
	Maharashtra	22928	0	477.6	156.2	-0.8	445	0.0
	Goa	443	0	9.4	9.1	-0.2	28	0.0
	DD	308	0	7.1	6.7	0.4	43	0.0
	DNH	782	0	18.4	18.4	0.0	49	0.0
	Essar steel	781	0	11.0	11.3	-0.3	185	0.0
	Andhra Pradesh	9580	0	191.3	65.5	-0.2	335	0.0
SR	Telangana	12336	0	249.5	136.4	-0.6	423	0.0
	Karnataka	11984	0	230.0	76.7	-0.6	602	0.0
	Kerala	3576	0	71.1	59.5	1.0	183	0.0
	Tamil Nadu	13107	0	291.0	148.5	1.4	368	0.0
	Pondy	326	0	7.2	7.3	-0.2	31	0.0
	Bihar	3735	0	70.2	68.9	-0.5	197	0.0
ER	DVC	3131	0	64.4	-35.6	-0.4	164	0.0
	Jharkhand	1223	0	23.6	14.6	-0.4	120	0.0
	Odisha	3763	0	70.6	9.7	0.0	293	0.0
	West Bengal	6109	0	113.2	26.9	-1.0	198	0.0
	Sikkim	112	0	1.4	1.5	-0.1	44	0.0
	Arunachal Pradesh	112	2	2.1	2.1	-0.1	26	0.0
NER	Assam	1310	15	20.0	18.4	0.1	77	0.0
	Manipur	184	1	2.6	2.8	-0.2	25	0.0
	Meghalaya	370	2	5.9	4.8	-0.1	57	0.2
	Mizoram	103	1	1.6	1.5	-0.2	11	0.0
	Nagaland	119	2	2.2	2.0	0.1	38	0.0
	Tripura	234	4	3.2	1.6	0.1	70	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.1	-10.7	-14.5
Day peak (MW)	370.4	-568.3	-961.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	200.8	-250.0	134.4	-92.6	11.7	4.2
Actual(MU)	195.2	-251.8	139.7	-97.9	13.6	-1.2
O/D/U/D(MU)	-5.6	-1.8	5.3	-5.3	2.0	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5009	11885	5402	2280	1090	25666
State Sector	14445	15730	9125	4870	11	44181
Total	19454	27614	14527	7150	1101	69846

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	419	1231	502	454	11	2618
Lignite	24	16	50	0	0	90
Hydro	132	37	84	28	4	286
Nuclear	19	37	45	0	0	101
Gas, Naptha & Diesel	35	43	15	0	13	107
RES (Wind, Solar, Biomass & Others)	77	86	201	1	0	366
Total	705	1451	898	483	29	3566

Share of RES in total generation (%)	10.92	5.95	22.40	0.30	0.07	10.26
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.28	11.06	36.79	6.01	15.42	21.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.061

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 : 24-Feb-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	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	251	0.0	6.2	-6.2
1	765kV	GAYA-VARANASI	D/C	40	698	0.0	8.2	-8.2
2		SASARAM-FATEHPUR	S/C	113	205	0.0	1.1	-1.1
3		GAYA-BALIA	S/C	0	404	0.0	7.0	-7.0
6	400 kV	PUSAULI-VARANASI	S/C	0	206	0.0	4.4	-4.4
7		PUSAULI -ALLAHABAD	S/C	0	94	0.0	1.5	-1.5
8		MUZAFFARPUR-GORAKHPUR	D/C	233	303	0.0	0.2	-0.2
9		PATNA-BALIA	Q/C	0	582	0.0	7.5	-7.5
10		BIHARSHARIFF-BALIA	D/C	0	240	0.0	2.7	-2.7
11		MOTIHARI-GORAKHPUR	D/C	0	490	0.0	8.8	-8.8
12		BIHARSHARIFF-VARANASI	D/C	167	158	0.5	0.0	0.5
13		220 kV	PUSAULI-SAHUPURI	S/C	0	173	0.0	3.3
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
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	50.9	-50.1
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1912	0	35.1	0.0	35.1
19		NEW RANCHI-DHARAMJAIGARH	D/C	951	26	8.5	0.0	8.5
20		JHARSUGUDA-DURG	D/C	201	44	1.6	0.0	1.6
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	138	369	0.0	3.9	-3.9
22		RANCHI-SIPAT	D/C	318	0	2.6	0.0	2.6
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0
24		BUDHIPADAR-KORBA	D/C	95	0	1.2	0.0	1.2
ER-WR						49.0	3.9	45.1
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	668.0	0.0	16.2	-16.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2453.0	0.0	51.9	-51.9
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2824.0	0.0	50.6	-50.6
28	400 kV	TALCHER-I/C	D/C	0.0	669.0	0.0	6.8	-6.8
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	118.7	-118.7
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	554	0.0	9.3	-9
31		ALIPURDUAR-BONGAIGAON	D/C	0	844	0.0	14.2	-14
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	167	0.0	2.5	-3
ER-NER						0.0	26.0	-26.0
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	502	0.0	11.2	-11.2
NER-NR						0.0	11.2	-11.2
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	0.0	0.0
35		V'CHAL B/B	D/C	359	491	1.1	6.0	-4.9
36		APL -MHG	D/C	0	1927	0.0	44.0	-44.0
37	765 kV	GWALIOR-AGRA	D/C	0	2483	0.0	39.8	-39.8
38		PHAGI-GWALIOR	D/C	0	1382	0.0	21.7	-21.7
39		JABALPUR-ORAI	D/C	0	1017	0.0	29.8	-29.8
40		GWALIOR-ORAI	S/C	583	0	10.6	0.0	10.6
41		SATNA-ORAI	S/C	0	1359	0.0	26.2	-26.2
42		CHITTORGARH-BANASKANTHA	D/C	213	807	0.0	5.8	-5.8
43	400 kV	ZERDA-KANKROLI	S/C	185	114	0.8	0.0	0.8
44		ZERDA -BHINMAL	S/C	246	278	0.0	0.7	-0.7
45		V'CHAL -RIHAND	S/C	981	0	22.8	0.0	22.8
46		RAPP-SHUJALPUR	D/C	190	330	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	20	101	0.1	1.0	-0.9
48		BHANPURA-MORAK	S/C	0	150	0.0	1.8	-1.8
49		MEHGAON-AURAIYA	S/C	90	0	1.5	0.0	1.5
50	132kV	MALANPUR-AURAIYA	S/C	47	25	0.6	0.0	0.6
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						37.5	177.4	-139.9
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	515	0.0	4.9	-4.9
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	390	2439	0.7	27.4	-26.7
55		WARDHA-NIZAMABAD	D/C	0	3112	0.0	51.3	-51.3
56	400 kV	KOLHAPUR-KUDGI	D/C	996	0	14.0	0.0	14.0
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	74	0.0	1.2	-1.2
59		XELDEM-AMBEWADI	S/C	0	90	1.7	0.0	1.7
WR-SR						16.3	84.8	-68.5
TRANSNATIONAL EXCHANGE								
60		BHUTAN						2.1
61		NEPAL						-10.7
62		BANGLADESH						-14.5