



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: 06<sup>th</sup> Mar 2020

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 05.03.2020.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-मार्च-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 05<sup>th</sup> Mar 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 06-Mar-2020

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)	40124	49198	44438	16760	2399	152919
Peak Shortage (MW)	651	0	0	0	52	703
Energy Met (MU)	821	1209	1122	341	40	3533
Hydro Gen (MU)	141	38	110	27	5	320
Wind Gen (MU)	33	65	31	0	0	129
Solar Gen (MU)*	31.12	28.00	86.41	1.51	0.04	147
Energy Shortage (MU)	9.1	0.0	0.0	0.0	0.7	10
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42039 09:22	56840 11:25	53240 09:26	18060 18:40	2460 18:07	167385 09:59

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	0.036	0.00	0.00	4.73	4.73	72.35	22.92

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	5128	0	101.7	66.2	-2.7	67	0.0
	Haryana	5245	0	97.2	71.4	0.4	209	0.0
	Rajasthan	12307	0	215.6	42.7	-5.7	209	0.0
	Delhi	3475	0	62.9	46.8	-0.2	425	0.0
	UP	13181	0	230.3	118.3	-0.2	1240	0.0
	Uttarakhand	1801	0	34.8	15.7	0.2	160	0.0
	HP	1601	0	29.4	21.3	0.6	277	0.0
	J&K(UT) and Ladakh(UT)	2606	651	45.7	38.6	-0.3	458	9.1
	Chandigarh	209	0	3.3	3.5	-0.1	12	0.0
	WR	Chhattisgarh	3756	0	85.1	38.4	-1.5	324
Gujarat		16147	0	354.3	96.8	3.6	709	0.0
MP		12058	0	232.0	116.6	-3.4	401	0.0
Maharashtra		23583	0	491.6	155.2	-2.8	527	0.0
Goa		473	0	10.4	10.2	-0.4	26	0.0
DD		335	0	7.5	7.2	0.3	35	0.0
DNH		823	0	19.5	19.3	0.2	46	0.0
Essar steel		827	0	8.1	8.8	-0.7	254	0.0
SR		Andhra Pradesh	9982	0	199.5	81.2	-0.3	378
	Telangana	12667	0	247.3	134.7	-0.7	877	0.0
	Karnataka	12703	0	251.9	79.1	-0.2	447	0.0
	Kerala	3834	0	79.2	60.8	1.8	223	0.0
	Tamil Nadu	15286	0	336.3	195.8	1.5	720	0.0
	Pondy	383	0	8.0	8.4	-0.4	34	0.0
ER	Bihar	4004	0	73.5	72.8	-1.4	210	0.0
	DVC	2974	0	60.3	-30.7	-0.6	235	0.0
	Jharkhand	1319	0	20.3	14.7	-1.8	110	0.0
	Odisha	3721	0	69.3	4.8	-0.3	225	0.0
	West Bengal	6354	0	115.5	31.0	-1.6	220	0.0
	Sikkim	143	0	1.7	1.9	-0.2	40	0.0
NER	Arunachal Pradesh	122	2	2.1	2.3	-0.3	38	0.0
	Assam	1367	20	22.5	16.8	0.1	86	0.5
	Manipur	202	3	2.6	2.7	-0.1	26	0.0
	Meghalaya	364	0	5.9	3.5	0.5	147	0.1
	Mizoram	98	2	1.6	1.5	0.0	20	0.0
	Nagaland	124	2	2.1	1.9	0.1	24	0.0
Tripura	225	3	3.5	1.9	0.1	62	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.3	-9.9	-16.2
Day peak (MW)	302.0	-569.5	-1021.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	167.3	-263.5	179.4	-91.7	8.5	0.0
Actual(MU)	137.4	-255.4	201.8	-103.6	11.4	-8.2
O/D/U/D(MU)	-29.9	8.1	22.4	-11.8	2.9	-8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5808	12940	5662	1470	1035	26915
State Sector	16610	14243	8145	5502	11	44511
Total	22418	27182	13807	6972	1046	71425

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	391	1205	556	453	11	2617
Lignite	14	16	46	0	0	76
Hydro	141	38	110	27	5	320
Nuclear	24	37	45	0	0	105
Gas, Naptha & Diesel	35	69	18	0	17	139
RES (Wind, Solar, Biomass & Others)	90	108	155	2	0	355
Total	695	1473	929	481	34	3611

Share of RES in total generation (%)	12.99	7.34	16.67	0.32	0.12	9.83
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36.70	12.39	33.28	5.90	15.13	21.60

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.072

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

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 06-Mar-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	D/C	177	576	0.0	4.4	-4.4
4	765 kV	SASARAM-FATEHPUR	S/C	181	241	0.0	0.4	-0.4
5	765 kV	GAYA-BALIA	S/C	0	367	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	S/C	0	254	0.0	4.7	-4.7
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	104	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	226	406	0.0	0.1	-0.1
9	400 kV	PATNA-BALIA	Q/C	0	734	0.0	6.7	-6.7
10	400 kV	BIHARSHARIFF-BALIA	D/C	82	248	0.0	1.3	-1.3
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	568	0.0	9.2	-9.2
12	400 kV	BIHARSHARIFF-VARANASI	D/C	245	169	1.9	0.0	1.9
13	220 kV	PUSAULI-SAHUPURI	S/C	0	163	0.0	2.8	-2.8
14	132 kV	SONE NAGAR-RHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RHAND	S/C	30	0	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
ER-NR						2.2	41.4	-39.2
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1867	0	33.1	0.0	33.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	653	191	6.8	0.0	6.8
3	765 kV	JHARSUGUDA-DURG	D/C	198	143	0.0	0.0	0.0
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	118	215	0.0	1.0	-1.0
5	400 kV	RANCHI-SIPAT	D/C	226	55	2.5	0.0	2.5
6	220 kV	BUDHIPADAR-RAIGARH	S/C	17	81	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	D/C	130	0	2.2	0.0	2.2
ER-WR						44.6	1.8	42.8
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	752	0.0	15.5	-15.5
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2474	0.0	50.8	-50.8
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3213	0.0	63.2	-63.2
4	400 kV	TALCHER-IC	D/C	0	1461	0.0	10.5	-10.5
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	129.5	-129.5
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	490	0.0	8.9	-8.9
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	748	0.0	13.5	-13.5
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	144	0.0	2.2	-2.2
ER-NER						0.0	24.6	-24.6
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	502	0.0	12.3	-12.3
NER-NR						0.0	12.3	-12.3
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	720	0.0	6.8	-6.8
2	HVDC	V'CHAL B/B	D/C	448	489	11.6	0.0	11.6
3	HVDC	APL -MHG	D/C	0	1550	0.0	31.7	-31.7
4	765 kV	GWALIOR-AGRA	D/C	0	2289	0.0	38.5	-38.5
5	765 kV	PHAGI-GWALIOR	D/C	0	1342	0.0	16.4	-16.4
6	765 kV	JABALPUR-ORAI	D/C	0	810	0.0	22.6	-22.6
7	765 kV	GWALIOR-ORAI	S/C	691	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	S/C	0	1351	0.0	27.0	-27.0
9	765 kV	CHITORGARH-BANASKANTHA	D/C	377	512	0.0	1.5	-1.5
10	400 kV	ZERDA-KANKROLI	S/C	237	52	2.0	0.0	2.0
11	400 kV	ZERDA -BHINMAL	S/C	465	153	3.5	0.0	3.5
12	400 kV	V'CHAL -RIHAND	S/C	977	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	D/C	337	163	0.0	1.5	-1.5
14	220 kV	BHANPURA-RANPUR	S/C	25	72	0.5	0.4	0.1
15	220 kV	BHANPURA-MORAK	S/C	39	126	0.1	1.1	-1.0
16	220 kV	MEHGAON-AURAIYA	S/C	84	5	0.7	0.0	0.7
17	220 kV	MALANPUR-AURAIYA	S/C	56	21	0.3	0.1	0.2
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						53.0	147.6	-94.6
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	992	0.0	13.1	-13.1
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2672	0.1	48.8	-48.7
4	765 kV	WARDHA-NIZAMABAD	D/C	2792	3706	0.0	70.8	-70.8
5	400 kV	KOLHAPUR-KUDGI	D/C	939	0	13.8	0.0	13.8
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	69	0.0	1.2	-1.2
8	220 kV	XELDEM-AMBEWADI	S/C	0	106	1.9	0.0	1.9
WR-SR						15.8	133.9	-118.1

## INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU ( 2 * 63 )	0	0	0	0.0
	ER	CHUKA ( 4 * 84 ) BIRPARA RECEIPT	0	0	-50	-1.2
	ER	MANGDECHHU ( 4 x 180 ) ALIPURDUAR RECEIPT	125	0	101	2.4
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	89	0	25	0.6
	NER	132KV-SALAKATI - GELEPHU	19	0	-7	-0.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	22	0	-14	-0.3
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.2
	ER	132KV-BIHAR - NEPAL	-212	-10	-115	-2.8
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-298	-226	-247	-5.9
	ER	Bheramara HVDC(Bangladesh)	-901	-210	-576	-13.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	60	0	-51	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	60	0	-50	-1.2