National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 05th Apr 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., डोंगतिएह, 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 04.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-अप्रैल-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 04th Apr 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:** **05-Apr-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)	34047	32350	35012	16446	2142	119997
Peak Shortage (MW)	539	0	0	80	50	589
Energy Met (MU)	651	858	908	340	34	2791
Hydro Gen (MU)	139	45	89	49	3	325
Wind Gen (MU)	8	39	26	-	-	74
Solar Gen (MU)*	37.35	28.32	88.61	4.73	0.04	159
Energy Shortage (MU)	9.8	0.0	0.0	0.2	0.9	10.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	34748	39333	41525	16528	2207	125113
Time Of Maximum Demand Met (From NLDC SCADA)	19:32	07:23	09:51	19:26	18:31	09:25

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	0.034	0.00	0.12	4.87	4.99	78.77	16.24

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	3602	0	70.5	54.3	-0.2	123	0.0
	Haryana	3895	0	71.2	68.3	0.5	119	0.0
	Rajasthan	8169	0	148.9	57.9	-1.3	358	0.0
	Delhi	2139	2	44.1	33.2	-1.4	70	0.0
	UP	14319	0	241.3	101.2	-0.1	347	0.0
	Uttarakhand	1030	0	18.5	4.6	0.6	191	0.0
	HP	807	0	12.5	1.0	-1.0	102	0.0
	J&K(UT) & Ladakh(UT)	2155	539	41.5	33.2	-2.1	217	9.8
	Chandigarh	133	0	2.2	2.0	0.2	22	0.0
WR	Chhattisgarh	3097	0	70.8	23.9	-1.6	168	0.0
	Gujarat	10665	0	232.2	77.6	0.6	453	0.0
	MP	8983	0	165.8	94.4	-1.4	658	0.0
	Maharashtra	17361	0	378.0	149.2	1.8	700	0.0
	Goa	356	0	7.2	7.3	0.0	37	0.0
	DD	68	0	1.5	1.6	-0.1	20	0.0
	DNH	84	0	1.8	1.8	0.0	24	0.0
	Essar steel	178	0	0.6	0.5	0.2	124	0.0
SR	Andhra Pradesh	8222	0	163.2	87.1	-0.2	483	0.0
	Telangana	9039	0	189.8	98.3	0.3	506	0.0
	Karnataka	11400	0	228.8	83.9	1.8	579	0.0
	Kerala	3785	0	71.7	56.3	1.0	170	0.0
	Tamil Nadu	11075	0	250.6	180.1	0.5	526	0.0
	Puducherry	227	0	4.3	4.7	-0.4	27	0.0
ER	Bihar	3868	0	75.1	74.9	-0.9	225	0.0
	DVC	1522	0	30.0	-21.7	0.6	333	0.0
	Jharkhand	1335	80	24.1	14.7	0.9	140	0.2
	Odisha	3362	0	70.3	10.2	0.1	111	0.0
	West Bengal	6874	0	138.9	39.4	0.6	365	0.0
	Sikkim	95	0	1.2	1.4	-0.2	23	0.0
NER	Arunachal Pradesh	112	1	1.5	0.9	0.5	23	0.0
	Assam	1272	30	19.8	16.9	0.1	87	0.4
	Manipur	181	2	2.3	2.1	0.2	33	0.0
	Meghalaya	240	0	3.8	3.4	0.0	21	0.1
	Mizoram	95	1	1.6	1.2	0.1	10	0.0
	Nagaland	119	1	2.0	1.9	0.1	51	0.0
	Tripura	231	1	3.1	3.6	-0.6	32	0.3

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.1	-2.8	-13.7
Day Peak (MW)	479.3	-269.3	-1072.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	107.9	-189.7	151.3	-69.5	-1.8	-1.9
Actual(MU)	96.0	-185.4	178.9	-78.9	-0.8	9.9
O/D/U/D(MU)	-11.8	4.3	27.6	-9.4	1.1	11.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6739	21816	6172	1975	399	37100
State Sector	21228	25281	14825	9130	11	70475
Total	27967	47096	20997	11105	410	107574

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	291	801	397	401	10	1901
Lignite	16	15	50	0	0	80
Hydro	139	46	89	49	3	325
Nuclear	24	36	52	0	0	111
Gas, Naptha & Diesel	23	86	19	0	27	154
RES (Wind, Solar, Biomass & Others)	75	79	134	5	0	293
Total	567	1062	742	454	40	2864
Share of RES in total generation (%)	13.19	7.41	18.10	1.04	0.10	10.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.85	15.06	37.16	11.78	6.56	25.44

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.074
Based on State Max Demands	1.120

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

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

Date of Reporting: 05-Apr-2020

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)								
1	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	S/C	2	251	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	D/C	171	373	0.0	4.3	-4.3
4	765 kV	SASARAM-FATEHPUR	S/C	126	192	0.0	0.6	-0.6
5	765 kV	GAYA-BALIA	S/C	0	302	0.0	4.4	-4.4
6	400 kV	PUSAULI-VARANASI	S/C	0	225	0.0	4.0	-4.0
7	400 kV	PUSAULI -ALLAHABAD	S/C	38	152	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	126	532	0.0	6.1	-6.1
9	400 kV	PATNA-BALIA	Q/C	0	667	0.0	9.3	-9.3
10	400 kV	BIHARSHARIFF-BALIA	D/C	40	240	0.0	3.0	-3.0
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	248	0.0	3.8	-3.8
12	400 kV	BIHARSHARIFF-VARANASI	D/C	194	215	0.2	0.0	0.2
13	220 kV	PUSAULI-SAHUPURI	S/C	0	172	0.0	3.0	-3.0
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5
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	0.7	46.2	-45.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1346	0	25.1	0.0	25.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	376	709	0.0	1.4	-1.4
3	765 kV	JHARSUGUDA-DURG	D/C	95	221	0.0	1.6	-1.6
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	96	305	0.0	2.5	-2.5
5	400 kV	RANCHI-SIPAT	D/C	168	260	0.0	0.3	-0.3
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	132	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	D/C	141	0	2.0	0.0	2.0
					ER-WR	27.0	7.8	19.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1984	0.0	47.9	-47.9
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3070	0.0	59.3	-59.3
4	400 kV	TALCHER-I/C	D/C	0	765	0.0	4.2	-4.2
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	115.8	-115.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	349	0	5.4	0.0	5.4
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	419	0	6.4	0.0	6.4
3	220 kV	ALIPURDUAR-SALAKATI	D/C	87	0	1.4	0.0	1.4
					ER-NER	13.1	0.0	13.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	468	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	0.0	0.0
2	HVDC	V'CHAL B/B	D/C	452	0	0.0	0.0	0.0
3	HVDC	APL -MHG	D/C	0	693	0.0	17.0	-17.0
4	765 kV	GWALIOR-AGRA	D/C	0	2043	0.0	33.6	-33.6
5	765 kV	PHAGI-GWALIOR	D/C	0	1185	0.0	18.8	-18.8
6	765 kV	JABALPUR-ORAI	D/C	0	664	0.0	18.7	-18.7
7	765 kV	GWALIOR-ORAI	S/C	636	0	10.1	0.0	10.1
8	765 kV	SATNA-ORAI	S/C	0	1212	0.0	24.2	-24.2
9	765 kV	CHITORGARH-BANASKANTHA	D/C	362	527	0.0	1.3	-1.3
10	400 kV	ZERDA-KANKROLI	S/C	175	64	1.7	0.0	1.7
11	400 kV	ZERDA -BHINMAL	S/C	234	135	1.4	0.0	1.4
12	400 kV	V'CHAL -RIHAND	S/C	965	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	D/C	240	208	0.2	0.0	0.2
14	220 kV	BHANPURA-RANPUR	S/C	50	48	0.0	0.0	0.0
15	220 kV	BHANPURA-MORAK	S/C	0	102	0.0	1.6	-1.6
16	220 kV	MEHGAON-AURAIYA	S/C	138	0	1.5	0.0	1.5
17	220 kV	MALANPUR-AURAIYA	S/C	103	0	0.9	0.0	0.9
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	38.2	115.2	-77.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	0.0	0.0
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2548	0.0	41.2	-41.2
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3011	0.0	49.2	-49.2
5	400 kV	KOLHAPUR-KUDGI	D/C	570	310	1.1	0.0	1.1
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	53	0.0	1.1	-1.1
8	220 kV	XELDEM-AMBEWADI	S/C	0	57	1.1	0.0	1.1
					WR-SR	2.2	91.5	-89.3

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	9	0	-20	-0.5
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	164	138	135	3.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	165	72	115	2.8
	NER	132KV-SALAKATI - GELEPHU	20	0	-15	-0.4
	NER	132KV-RANGIA - DEOTHANG	10	0	-3	-0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.5
	ER	132KV-BIHAR - NEPAL	-57	-10	-26	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-170	-50	-74	-1.8
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-944	-262	-482	-11.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	64	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	64	0	-45	-1.1