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: 10th 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 09.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th 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:** **10-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)	34831	34691	29496	15952	2101	117071
Peak Shortage (MW)	483	0	0	0	104	587
Energy Met (MU)	674	888	778	321	33	2695
Hydro Gen (MU)	141	37	62	47	3	291
Wind Gen (MU)	12	38	36	-	-	85
Solar Gen (MU)*	42.74	28.60	82.52	4.68	0.04	159
Energy Shortage (MU)	9.6	0.0	0.0	0.0	3.0	12.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	35668	38884	36037	16324	2195	118587
Time Of Maximum Demand Met (From NLDC SCADA)	19:34	07:08	12:54	20:26	18:45	09:15

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	0.032	0.00	0.36	4.51	4.87	77.22	17.91

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	3732	0	74.0	59.0	-1.3	51	0.0
	Haryana	4089	0	73.8	69.5	2.2	408	0.0
	Rajasthan	8106	0	150.6	59.0	-0.7	319	0.0
	Delhi	2226	0	47.5	37.1	-1.8	40	0.0
	UP	14745	0	252.4	113.0	0.9	1165	0.0
	Uttarakhand	1035	0	19.7	5.8	0.1	83	0.0
	HP	815	0	13.1	1.3	-0.4	64	0.0
	J&K(UT) & Ladakh(UT)	2016	356	41.2	33.6	-2.6	347	9.6
	Chandigarh	126	0	2.3	2.2	0.1	39	0.0
WR	Chhattisgarh	3235	0	77.2	21.4	1.4	204	0.0
	Gujarat	10779	0	243.8	83.7	3.6	481	0.0
	MP	8770	0	171.8	109.2	-0.8	403	0.0
	Maharashtra	17642	0	383.2	167.3	-0.4	604	0.0
	Goa	353	0	7.2	7.4	-0.2	34	0.0
	DD	83	0	1.8	1.8	0.0	30	0.0
	DNH	91	0	2.0	2.0	0.0	26	0.0
	Essar steel	180	0	0.6	0.5	0.1	109	0.0
SR	Andhra Pradesh	6391	0	130.6	69.2	-1.6	619	0.0
	Telangana	8042	0	167.8	74.8	0.4	483	0.0
	Karnataka	9800	0	186.6	60.5	-0.7	429	0.0
	Kerala	3304	0	64.2	49.6	0.8	256	0.0
	Tamil Nadu	10362	0	224.4	165.3	-1.3	494	0.0
	Puducherry	221	0	4.6	5.4	-0.8	34	0.0
ER	Bihar	4405	0	82.8	81.3	0.3	341	0.0
	DVC	1553	0	29.1	-25.8	1.0	393	0.0
	Jharkhand	1273	0	21.0	13.1	-1.0	164	0.0
	Odisha	3111	0	63.0	3.0	-0.4	278	0.0
	West Bengal	6425	0	124.2	34.3	0.3	368	0.0
	Sikkim	85	0	1.0	1.6	-0.5	4	0.0
NER	Arunachal Pradesh	85	1	2.0	1.0	0.9	107	0.0
	Assam	1281	50	18.2	16.1	-0.5	78	2.8
	Manipur	191	1	2.8	2.3	0.5	24	0.0
	Meghalaya	248	0	3.3	3.2	-0.3	52	0.1
	Mizoram	104	1	1.6	1.4	0.0	42	0.0
	Nagaland	101	1	2.2	2.0	0.1	9	0.0
	Tripura	256	3	3.4	3.9	-0.5	128	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.7	-3.7	-16.5
Day Peak (MW)	776.1	-274.3	-1100.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	122.8	-192.4	145.8	-73.4	-2.9	-0.2
Actual(MU)	122.5	-192.8	140.3	-69.6	-2.4	-2.0
O/D/U/D(MU)	-0.3	-0.5	-5.5	3.8	0.5	-1.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6522	19801	8372	2325	399	37418
State Sector	21833	26138	15215	7210	11	70407
Total	28355	45939	23587	9535	410	107826

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	280	851	331	373	11	1846
Lignite	18	12	47	0	0	78
Hydro	141	37	62	47	3	291
Nuclear	28	36	52	0	0	115
Gas, Naptha & Diesel	24	75	20	0	28	146
RES (Wind, Solar, Biomass & Others)	83	75	137	5	0	299
Total	574	1085	649	425	41	2775
Share of RES in total generation (%)	14.43	6.93	21.04	1.12	0.10	10.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.94	13.62	38.56	12.19	7.21	25.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.089
Based on State Max Demands	1.141

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: 10-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	0	251	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	D/C	0	581	0.0	7.2	-7.2
4	765 kV	SASARAM-FATEHPUR	S/C	200	160	0.5	0.0	0.5
5	765 kV	GAYA-BALIA	S/C	0	354	0.0	5.4	-5.4
6	400 kV	PUSAULI-VARANASI	S/C	0	233	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	118	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	65	621	0.0	6.8	-6.8
9	400 kV	PATNA-BALIA	Q/C	0	739	0.0	9.9	-9.9
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	331	0.0	3.7	-3.7
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	236	0.0	3.8	-3.8
12	400 kV	BIHARSHARIFF-VARANASI	D/C	205	207	0.0	0.2	-0.2
13	220 kV	PUSAULI-SAHUPURI	S/C	0	160	0.0	2.9	-2.9
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	1.1	51.8	-50.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	819	0	13.4	0.0	13.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	870	584	2.8	0.0	2.8
3	765 kV	JHARSUGUDA-DURG	D/C	0	284	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	0	404	0.0	4.2	-4.2
5	400 kV	RANCHI-SIPAT	D/C	314	206	0.5	0.0	0.5
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	145	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	D/C	130	0	1.9	0.0	1.9
					ER-WR	18.6	9.8	8.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	515	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1009	0.0	24.1	-24.1
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2625	0.0	52.9	-52.9
4	400 kV	TALCHER-I/C	D/C	915	0	15.1	0.0	15.1
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	85.7	-85.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	476	202	5.8	0.0	5.8
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	521	95	5.8	0.0	5.8
3	220 kV	ALIPURDUAR-SALAKATI	D/C	100	117	1.3	0.0	1.3
					ER-NER	12.8	0.0	12.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	471	0	10.8	0.0	10.8
					NER-NR	10.8	0.0	10.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	227	0.0	10.6	-10.6
2	HVDC	V'CHAL B/B	D/C	450	0	12.1	0.0	12.1
3	HVDC	APL -MHG	D/C	0	693	0.0	17.0	-17.0
4	765 kV	GWALIOR-AGRA	D/C	0	2288	0.0	38.5	-38.5
5	765 kV	PHAGI-GWALIOR	D/C	0	1233	0.0	21.8	-21.8
6	765 kV	JABALPUR-ORAI	D/C	0	756	0.0	23.3	-23.3
7	765 kV	GWALIOR-ORAI	S/C	633	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	S/C	0	1280	0.0	26.2	-26.2
9	765 kV	CHITORGARH-BANASKANTHA	D/C	340	446	0.0	1.1	-1.1
10	400 kV	ZERDA-KANKROLI	S/C	170	37	1.8	0.0	1.8
11	400 kV	ZERDA -BHINMAL	S/C	251	40	3.0	0.0	3.0
12	400 kV	V'CHAL -RIHAND	S/C	973	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	D/C	189	210	0.0	0.2	-0.2
14	220 kV	BHANPURA-RANPUR	S/C	53	49	0.0	0.5	-0.5
15	220 kV	BHANPURA-MORAK	S/C	0	58	0.0	0.9	-0.9
16	220 kV	MEHGAON-AURAIYA	S/C	123	0	1.3	0.0	1.3
17	220 kV	MALANPUR-AURAIYA	S/C	89	3	0.7	0.0	0.7
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	51.8	140.2	-88.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	995	0.0	23.5	-23.5
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	1835	0.0	27.7	-27.7
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2155	0.0	40.3	-40.3
5	400 kV	KOLHAPUR-KUDGI	D/C	156	466	0.3	3.8	-3.5
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	59	0.0	1.2	-1.2
8	220 kV	XELDEM-AMBEWADI	S/C	0	57	1.1	0.0	1.1
					WR-SR	1.4	96.5	-95.2

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	104	0	-8	-0.2
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	246	158	167	4.0
	ER	TALA (6 * 170) BINAGURI RECEIPT	288	41	119	2.9
	NER	132KV-SALAKATI - GELEPHU	16	0	-9	-0.2
	NER	132KV-RANGIA - DEOTHANG	7	0	9	0.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.7
	ER	132KV-BIHAR - NEPAL	-43	-2	-25	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-196	-62	-103	-2.5
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-962	-264	-573	-13.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-57	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	69	0	-57	-1.4