



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: 11th 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., 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 10.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 10-अप्रैल-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 10th 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: 11-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)	35178	33510	32272	16574	1918	119452
Peak Shortage (MW)	648	0	0	0	300	948
Energy Met (MU)	694	890	765	343	27	2717
Hydro Gen (MU)	140	41	66	51	3	301
Wind Gen (MU)	15	27	33	-	-	75
Solar Gen (MU)*	40.54	26.90	90.58	4.67	0.04	163
Energy Shortage (MU)	8.1	0.0	0.0	0.0	9.1	17.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	35604	39706	35579	16777	1937	121381
Time Of Maximum Demand Met (From NLDC SCADA)	19:59	07:12	13:25	20:44	18:45	19:49

B. Frequency Profile (%)

Region	FV1	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.037	0.00	0.08	8.06	8.14	75.49	16.38

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	3714	0	75.9	58.5	-0.8	163	0.0	
	Haryana	4259	0	76.7	73.8	0.8	125	0.3	
	Rajasthan	8074	0	155.5	58.2	-0.6	544	0.0	
	Delhi	2300	0	48.4	38.4	-1.6	10	0.0	
	UP	14831	140	260.3	120.1	2.7	550	0.0	
	Uttarakhand	1068	0	20.3	6.5	1.3	121	0.0	
	HP	843	0	13.2	1.5	-0.5	114	0.0	
	J&K(UT) & Ladakh(UT)	2209	552	41.7	32.5	0.3	260	7.8	
	Chandigarh	128	0	2.3	2.5	-0.1	14	0.0	
	WR	Chhattisgarh	3157	0	75.1	21.0	-1.3	295	0.0
Gujarat		10940	0	246.0	87.1	2.6	551	0.0	
MP		8777	0	174.0	110.2	-0.6	451	0.0	
Maharashtra		17477	0	383.1	150.4	-0.2	360	0.0	
Goa		308	0	6.6	6.9	-0.3	32	0.0	
DD		83	0	1.9	1.9	0.0	8	0.0	
DNH		94	0	2.1	2.1	0.0	29	0.0	
Essar steel		191	0	0.7	0.5	0.2	108	0.0	
SR		Andhra Pradesh	6831	0	139.7	66.8	-0.4	602	0.0
		Telangana	7863	0	165.5	72.9	-1.1	335	0.0
	Karnataka	9266	0	184.1	61.3	0.3	529	0.0	
	Kerala	3381	0	62.9	49.1	0.4	187	0.0	
	Tamil Nadu	9993	0	207.8	152.7	-1.2	502	0.0	
	Puducherry	221	0	4.6	5.4	-0.8	61	0.0	
ER	Bihar	4457	0	83.2	82.3	-0.3	249	0.0	
	DVC	1446	0	29.2	-26.5	0.4	182	0.0	
	Jharkhand	1247	0	22.3	14.3	-0.1	221	0.0	
	Odisha	3257	0	69.4	3.1	0.1	252	0.0	
	West Bengal	6770	0	137.3	40.4	0.4	309	0.0	
	Sikkim	99	0	1.1	1.4	-0.3	7	0.0	
NER	Arunachal Pradesh	95	11	1.4	1.2	0.1	29	0.0	
	Assam	1050	68	12.2	9.4	0.1	117	9.0	
	Manipur	166	12	2.1	2.3	-0.1	14	0.0	
	Meghalaya	254	8	3.7	3.6	-0.3	85	0.1	
	Mizoram	87	4	1.5	1.4	-0.2	19	0.0	
	Nagaland	108	6	2.1	1.9	0.1	5	0.0	
	Tripura	265	22	3.8	3.7	-0.5	80	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.6	-4.0	-13.6
Day Peak (MW)	654.5	-346.2	-1086.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	143.3	-204.9	139.5	-72.2	-5.8	-0.1
Actual(MU)	138.6	-208.3	127.9	-64.6	-6.8	-13.2
O/D/U/D(MU)	-4.8	-3.5	-11.5	7.6	-1.0	-13.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6522	21001	8372	2325	649	38868
State Sector	21918	25581	15215	7630	11	70355
Total	28440	46582	23587	9955	660	109224

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	271	887	319	381	7	1865
Lignite	21	14	47	0	0	82
Hydro	140	41	66	51	3	301
Nuclear	28	36	51	0	0	115
Gas, Naptha & Diesel	24	64	21	0	28	136
RES (Wind, Solar, Biomass & Others)	83	62	136	5	0	287
Total	567	1103	640	437	39	2786

Share of RES in total generation (%)	14.70	5.64	21.30	1.09	0.10	10.29
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.23	12.59	39.62	12.81	8.50	25.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.068
Based on State Max Demands	1.115

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: 11-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	701	0.0	7.2	-7.2
4	765 kV	SASARAM-FATEHPUR	S/C	190	183	0.1	0.0	0.1
5	765 kV	GAYA-BALIA	S/C	0	363	0.0	5.4	-5.4
6	400 kV	PUSAULI-VARANASI	S/C	0	217	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	138	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	709	0.0	7.8	-7.8
9	400 kV	PATNA-BALIA	O/C	0	700	0.0	9.9	-9.9
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	333	0.0	3.8	-3.8
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	237	0.0	3.9	-3.9
12	400 kV	BIHARSHARIFF-VARANASI	D/C	183	291	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	171	0.0	2.6	-2.6
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	0.6	0.0	0.6
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDALI	S/C	0	0	0.0	0.0	0.0
ER-NR						0.7	53.4	-52.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	997	0	13.4	0.0	13.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	785	366	7.2	0.0	7.2
3	765 kV	JHARSUGUDA-DURG	D/C	28	251	0.0	7.2	-7.2
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	13	287	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	D/C	293	115	3.0	0.0	3.0
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	141	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	D/C	164	0	2.4	0.0	2.4
ER-WR						26.0	12.6	13.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	D/C	1168	645	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1495	0.0	31.4	-31.4
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2444	0.0	49.2	-49.2
4	400 kV	TALCHER-I/C	D/C	1460	516	7.7	0.0	7.7
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	89.0	-89.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	543	0	7.7	0.0	7.7
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	612	0	8.9	0.0	8.9
3	220 kV	ALIPURDUAR-SALAKATI	D/C	150	0	1.9	0.0	1.9
ER-NER						18.4	0.0	18.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARALI-AGRA	-	470	0	11.6	0.0	11.6
NER-NR						11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	227	0.0	10.7	-10.7
2	HVDC	V'CHAL B/B	D/C	449	0	5.6	0.0	5.6
3	HVDC	APL -MHG	D/C	0	693	0.0	17.0	-17.0
4	765 kV	GWALIOR-AGRA	D/C	0	2285	0.0	42.5	-42.5
5	765 kV	PHAGI-GWALIOR	D/C	0	1314	0.0	22.7	-22.7
6	765 kV	JABALPUR-ORAI	D/C	0	759	0.0	26.1	-26.1
7	765 kV	GWALIOR-ORAI	S/C	666	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	S/C	0	1248	0.0	26.5	-26.5
9	765 kV	CHITORGARH-BANASKANTHA	D/C	358	458	0.0	1.2	-1.2
10	400 kV	ZERDA-KANKROLI	S/C	185	8	1.8	0.0	1.8
11	400 kV	ZERDA -BHINMAL	S/C	268	1	3.4	0.0	3.4
12	400 kV	V'CHAL -RIHAND	S/C	975	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	D/C	216	179	0.9	1.7	-0.8
14	220 kV	BHANPURA-RANPUR	S/C	45	51	0.0	0.5	-0.5
15	220 kV	BHANPURA-MORAK	S/C	0	63	0.0	0.9	-0.9
16	220 kV	MEHGAON-AURAIYA	S/C	100	0	1.0	0.0	1.0
17	220 kV	MALANPUR-AURAIYA	S/C	71	7	0.5	0.0	0.5
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						46.8	149.8	-103.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	995	0.0	23.6	-23.6
2	HVDC	BARSUR-L-SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	1783	0.0	23.0	-23.0
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2130	0.0	37.2	-37.2
5	400 kV	KOLHAPUR-KUDGI	D/C	117	341	0.2	2.9	-2.7
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	1	54	0.0	0.9	-0.9
8	220 kV	XELDEM-AMBEWADI	S/C	0	58	1.1	0.0	1.1
WR-SR						1.2	87.6	-86.4
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	70	34	23	0.5		
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	206	143	159	3.8		
	ER	TALA (6 * 170) BINAGURI RECEIPT	240	152	182	4.4		
	NER	132KV-SALAKATI - GELEPHU	20	0	-7	-0.2		
	NER	132KV-RANGIA - DEOTHANG	9	0	4	0.1		
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.7		
	ER	132KV-BIHAR - NEPAL	-102	0	-38	-0.9		
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-204	-72	-103	-2.5		
BANGLADESH	ER	Bheramara HVDC (Bangladesh)	-946	-210	-454	-10.9		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	71	0	-57	-1.4		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	69	0	-57	-1.4		