



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: 29<sup>th</sup> 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., डोंगतेह, 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 28.04.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-अप्रैल-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंके 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 28th 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: 29-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 2000 hrs; from RLDCs)	37150	38668	32150	14420	2078	124466
Peak Shortage (MW)	541	0	0	0	81	622
Energy Met (MU)	751	968	804	276	35	2835
Hydro Gen (MU)	216	50	78	66	5	416
Wind Gen (MU)	14	38	32	-	-	84
Solar Gen (MU)*	36.37	27.56	85.31	4.64	0.02	154
Energy Shortage (MU)	9.8	0.0	0.0	0.0	0.8	10.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	38418	42190	37752	15414	2117	128222
Time Of Maximum Demand Met (From NLDC SCADA)	22:21	15:44	14:30	23:52	18:56	22:41

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	0.026	0.00	0.00	2.41	2.41	79.50	18.09

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	4661	0	89.6	66.4	-1.0	83	0.0
	Haryana	5688	0	93.4	81.4	0.8	247	0.0
	Rajasthan	8431	0	180.1	65.1	1.4	527	0.0
	Delhi	2947	0	58.4	48.4	-2.1	0	0.0
	UP	13956	0	249.0	121.0	-0.5	709	0.0
	Uttarakhand	1113	0	21.6	5.2	0.9	149	0.0
	HP	841	0	14.7	-2.2	-1.0	74	0.0
	J&K(UT) & Ladakh(UT)	2163	541	41.5	26.7	-1.2	169	9.8
	Chandigarh	138	0	2.6	2.8	-0.3	14	0.0
	Chhattisgarh	2966	0	67.5	16.1	-1.5	742	0.0
WR	Gujarat	13114	0	291.0	78.8	5.0	667	0.0
	MP	8355	0	182.2	104.9	-1.8	384	0.0
	Maharashtra	18629	0	408.1	174.7	3.7	450	0.0
	Goa	469	0	9.3	9.7	-0.7	46	0.0
	DD	156	0	3.3	3.2	0.1	23	0.0
	DNH	234	0	5.1	5.2	-0.1	34	0.0
	AMNSIL	301	0	1.6	1.5	0.0	114	0.0
SR	Andhra Pradesh	7649	0	155.8	84.9	0.3	584	0.0
	Telangana	6469	0	131.8	53.1	-0.4	382	0.0
	Karnataka	10301	0	206.8	59.6	0.8	918	0.0
	Kerala	3416	0	68.5	45.3	1.0	211	0.0
	Tamil Nadu	10205	0	236.3	172.4	1.4	462	0.0
	Puducherry	278	0	5.4	5.6	-0.2	99	0.0
ER	Bihar	3893	0	67.1	67.2	-0.7	249	0.0
	DVC	1499	0	30.1	-20.1	0.2	281	0.0
	Jharkhand	1214	0	20.3	15.9	-1.3	201	0.0
	Odisha	3682	0	66.1	-11.8	0.1	753	0.0
	West Bengal	4758	0	91.6	28.4	-1.9	219	0.0
NER	Sikkim	105	0	1.3	1.5	-0.2	20	0.0
	Arunachal Pradesh	106	0	1.5	1.1	0.4	42	0.0
	Assam	1270	53	19.9	16.7	0.2	111	0.7
	Manipur	163	3	2.1	2.3	-0.1	36	0.0
	Meghalaya	263	0	4.2	2.8	-0.2	56	0.1
	Mizoram	95	1	1.4	1.3	-0.1	16	0.0
	Nagaland	119	0	2.1	2.0	-0.1	9	0.0
	Tripura	213	6	3.4	3.1	-0.6	63	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	14.2	-0.4	-12.4
Day Peak (MW)	895.8	-105.9	-952.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	129.3	-167.3	138.3	-101.2	-1.0	-1.9
Actual(MU)	107.7	-160.1	153.8	-109.8	-1.0	-9.5
O/D/U/D(MU)	-21.6	7.1	15.5	-8.5	0.0	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7235	20906	8732	2230	712	39815
State Sector	20653	22015	14528	7632	11	64839
Total	27888	42920	23260	9862	723	104654

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	288	902	333	336	6	1866
Lignite	20	14	39	0	0	72
Hydro	216	50	78	66	5	416
Nuclear	28	36	51	0	0	115
Gas, Naptha & Diesel	23	58	21	0	28	130
RES (Wind, Solar, Biomass & Others)	81	76	146	5	0	308
Total	656	1137	667	407	40	2907
Share of RES in total generation (%)	12.37	6.72	21.90	1.14	0.05	10.61
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	49.57	14.31	41.22	17.35	13.46	28.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.060
Based on State Max Demands	1.091

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: 29-Apr-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	6.1	-6.1	
3	765 kV	GAYA-VARANASI	D/C	0	556	0.0	7.2	-7.2	
4	765 kV	SASARAM-FATEHPUR	S/C	102	224	0.0	0.7	-0.7	
5	765 kV	GAYA-BALIA	S/C	0	447	0.0	3.2	-3.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	187	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	162	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	807	0.0	10.6	-10.6	
9	400 kV	PATNA-BALIA	Q/C	0	811	0.0	11.7	-11.7	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	378	0.0	4.8	-4.8	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	225	0.0	3.4	-3.4	
12	400 kV	BIHARSHARIF-VARANASI	D/C	115	323	0.0	1.6	-1.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	139	0.0	2.5	-2.5	
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	0.5	57.9	-57.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	870	0	12.5	0.0	12.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	330	375	0.9	0.0	0.9	
3	765 kV	JHARSUGUDA-DURG	D/C	0	482	0.0	6.4	-6.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	101	190	0.0	1.2	-1.2	
5	400 kV	RANCHI-SIPAT	D/C	215	162	1.7	0.0	1.7	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	122	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	183	0	2.4	0.0	2.4	
						ER-WR	17.5	9.5	8.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	8.3	-8.3	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1996	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2711	0.0	56.4	-56.4	
4	400 kV	TALCHER-I/C	D/C	0	994	0.0	14.5	-14.5	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	112.7	-112.7
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	386	0	5.7	0.0	5.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	446	0	6.2	0.0	6.2	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	95	0	1.2	0.0	1.2	
						ER-NER	13.0	0.0	13.0
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	486	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	5.2	-5.2	
2	HVDC	V'CHAL B/B	D/C	445	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	1125	0.0	27.9	-27.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2238	0.0	35.2	-35.2	
5	765 kV	PHAGI-GWALIOR	D/C	0	1060	0.0	16.9	-16.9	
6	765 kV	JABALPUR-ORAI	D/C	0	736	0.0	20.2	-20.2	
7	765 kV	GWALIOR-ORAI	S/C	576	0	10.5	0.0	10.5	
8	765 kV	SAINA-ORAI	S/C	0	1774	0.0	24.9	-24.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	887	465	3.8	0.0	3.8	
10	400 kV	ZERDA-KANKROLI	S/C	284	18	3.1	0.0	3.1	
11	400 kV	ZERDA -BHINMAL	S/C	394	30	3.9	0.0	3.9	
12	400 kV	V'CHAL -RIHAND	S/C	963	0	22.0	0.0	22.0	
13	400 kV	RAPP-SHUALPUR	D/C	296	164	0.9	0.0	0.9	
14	220 kV	BHANPURA-RANPUR	S/C	43	64	0.0	0.7	-0.7	
15	220 kV	BHANPURA-MORAK	S/C	0	68	0.0	1.2	-1.2	
16	220 kV	MEHGAON-AURAIYA	S/C	109	0	1.4	0.0	1.4	
17	220 kV	MALANPUR-AURAIYA	S/C	77	1	0.7	0.0	0.7	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	58.5	132.1	-73.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.2	-12.2	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	1755	0.0	27.5	-27.5	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	1960	0.0	37.2	-37.2	
5	400 kV	KOLHAPUR-KUDGI	D/C	229	248	0.0	1.0	-1.0	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	73	0.0	1.6	-1.6	
8	220 kV	XELDEM-AMBEWADI	S/C	0	62	1.2	0.0	1.2	
						WR-SR	1.2	79.4	-78.2

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	86	21	43	1.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	365	363	274	6.6
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	289	93	236	5.7
	NER	132KV-SALAKATI - GELEPHU	7	0	-1	0.0
	NER	132KV-RANGIA - DEOTHANG	0	0	20	0.5
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-10	-4	-7	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-96	-2	-11	-0.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-844	-256	-423	-10.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-47	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-47	-1.1