



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 2021

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 10.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-अप्रैल-2021 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 April 2021, 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-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	50096	52559	48485	22357	2466	175963
Peak Shortage (MW)	531	0	0	0	5	536
Energy Met (MU)	1005	1340	1208	489	44	4086
Hydro Gen (MU)	106	42	79	38	8	274
Wind Gen (MU)	12	67	27	-	-	106
Solar Gen (MU)*	50.51	36.97	109.80	5.06	0.18	203
Energy Shortage (MU)	6.94	0.00	0.00	0.00	0.27	7.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51246	59548	56870	22862	2946	178581
Time Of Maximum Demand Met (From NLDC SCADA)	19:34	15:05	14:53	21:26	18:20	19:36

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	0.10	5.80	5.90	78.09	16.01

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	6040	0	129.0	64.2	-1.0	94	0.00
	Haryana	6904	0	129.4	85.4	0.5	157	0.00
	Rajasthan	10405	0	214.2	47.5	-1.0	303	0.00
	Delhi	3553	0	76.9	61.8	-1.8	77	0.00
	UP	18835	150	332.7	117.3	-0.6	204	0.02
	Uttarakhand	1890	0	39.1	24.8	0.5	175	0.00
	HP	1491	0	29.1	21.3	0.4	121	0.52
	J&K(UT) & Ladakh(UT)	2650	350	51.3	40.9	-0.3	222	6.40
Chandigarh	179	0	3.3	3.3	0.0	21	0.00	
WR	Chhattisgarh	4525	0	106.2	52.2	-0.2	534	0.00
	Gujarat	18643	0	405.2	107.1	1.4	760	0.00
	MP	11023	0	233.1	113.8	-2.2	440	0.00
	Maharashtra	24161	0	538.3	187.6	-1.1	779	0.00
	Goa	552	0	12.3	12.2	-0.4	26	0.00
	DD	336	0	7.6	7.5	0.1	30	0.00
	DNH	816	0	18.6	18.6	0.0	54	0.00
	AMNSIL	832	0	18.2	1.2	0.3	340	0.00
SR	Andhra Pradesh	10521	0	213.1	95.9	0.6	606	0.00
	Telangana	12011	0	252.3	123.0	-0.2	663	0.00
	Karnataka	13345	0	273.0	108.2	1.4	861	0.00
	Kerala	4251	0	87.7	54.7	0.5	259	0.00
	Tamil Nadu	16846	0	372.8	228.7	-0.3	745	0.00
	Puducherry	421	0	9.1	9.4	-0.3	23	0.00
ER	Bihar	5879	0	111.0	102.2	-1.1	396	0.00
	DVC	3218	0	70.6	-56.8	-0.8	339	0.00
	Jharkhand	1618	0	29.9	22.2	-0.7	155	0.00
	Odisha	4556	0	96.0	26.2	-1.7	418	0.00
	West Bengal	8629	0	180.4	31.8	0.8	485	0.00
NER	Sikkim	66	0	0.8	1.6	-0.8	58	0.00
	Arunachal Pradesh	134	1	1.9	1.9	-0.1	46	0.00
	Assam	1640	12	26.6	23.8	0.2	140	0.00
	Manipur	202	1	2.5	2.5	-0.1	28	0.01
	Meghalaya	304	0	5.0	3.4	0.2	46	0.24
	Mizoram	105	0	1.5	1.6	-0.1	20	0.01
	Nagaland	128	0	2.0	1.8	0.1	36	0.01
Tripura	293	2	5.1	3.3	1.0	78	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.6	-16.3	-22.0
Day Peak (MW)	298.0	-751.6	-1015.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	179.1	-293.0	211.6	-110.8	13.1	0.0
Actual(MU)	161.2	-296.3	224.3	-108.9	15.4	-4.2
O/D/U/D(MU)	-17.9	-3.3	12.8	1.9	2.3	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4657	14538	6592	1048	1460	28295	47
State Sector	13152	11250	4585	2293	11	31291	53
Total	17809	25788	11177	3341	1471	59586	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	584	1411	655	569	15	3235	78
Lignite	21	11	44	0	0	76	2
Hydro	106	42	80	38	8	274	7
Nuclear	32	34	43	0	0	108	3
Gas, Naptha & Diesel	35	54	12	0	12	112	3
RES (Wind, Solar, Biomass & Others)	83	105	171	5	0	363	9
Total	860	1656	1004	613	35	4168	100

Share of RES in total generation (%)	9.63	6.32	17.00	0.82	0.51	8.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.67	10.88	29.16	7.04	24.01	17.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.083
Based on State Max Demands	1.103

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-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	305	0.0	1.2	-1.2	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	142	372	0.0	4.2	-4.2	
4	765 kV	SASARAM-FATEHPUR	1	112	149	0.0	0.8	-0.8	
5	765 kV	GAYA-BALIA	1	0	323	0.0	5.8	-5.8	
6	400 kV	PUSAULI-VARANASI	1	0	239	0.0	5.0	-5.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	57	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	413	251	0.0	0.5	-0.5	
9	400 kV	PATNA-BALIA	4	20	686	0.0	10.9	-10.9	
10	400 kV	BIHARSHARIFF-BALIA	2	216	119	0.1	0.0	0.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	128	231	0.0	2.7	-2.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	130	128	0.0	0.6	-0.6	
13	220 kV	PUSAULI-SAHUPURI	1	62	96	0.0	0.7	-0.7	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	39.0	-38.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1107	0	20.3	0.0	20.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	739	234	8.3	0.0	8.3	
3	765 kV	JHARSUGUDA-DURG	2	78	290	0.0	2.0	-2.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	144	261	0.0	1.7	-1.7	
5	400 kV	RANCHI-SIPAT	2	284	157	1.6	0.0	1.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	224	0	2.8	0.0	2.8	
						ER-WR	33.1	6.0	27.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	417	0.0	8.9	-8.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2480	0.0	49.9	-49.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3108	0.0	59.6	-59.6	
4	400 kV	TALCHER-I/C	2	0	1716	0.0	26.6	-26.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	118.3	-118.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	98	480	0.0	3.1	-3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	173	636	0.0	4.3	-4.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	33	130	0.0	1.0	-1.0	
						ER-NER	0.0	8.3	-8.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	487	0	7.4	0.0	7.4	
						NER-NR	7.4	0.0	7.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2511	0.0	45.0	-45.0	
2	HVDC	VINDHYACHAL B/B	-	0	207	0.0	4.1	-4.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1924	0.0	48.4	-48.4	
4	765 kV	GWALIOR-AGRA	2	0	2163	0.0	35.8	-35.8	
5	765 kV	PHAGI-GWALIOR	2	0	1222	0.0	19.8	-19.8	
6	765 kV	JABALPUR-ORAI	2	254	699	0.0	15.5	-15.5	
7	765 kV	GWALIOR-ORAI	1	591	0	17.8	0.0	17.8	
8	765 kV	SATNA-ORAI	1	0	1778	0.0	31.6	-31.6	
9	765 kV	CHITORGARH-BANASKANTHA	2	1712	0	11.8	0.0	11.8	
10	400 kV	ZERDA-KANKROLI	1	430	0	5.5	0.0	5.5	
11	400 kV	ZERDA-BHINMAL	1	638	0	7.2	0.0	7.2	
12	400 kV	VINDHYACHAL-RIHAND	1	977	0	19.6	0.0	19.6	
13	400 kV	RAPP-SHUJALPUR	2	293	289	1.2	1.6	-0.5	
14	220 kV	BHANPURA-RANPUR	1	57	108	0.0	1.0	-0.9	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.7	-0.6	
16	220 kV	MEHGAON-AURAIYA	1	120	0	0.8	0.0	0.8	
17	220 kV	MALANPUR-AURAIYA	1	83	0	1.4	0.0	1.4	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	65.3	203.5	-138.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	13.9	-13.9	
2	HVDC	RAIGARH-PUGALUR	2	0	3016	0.0	51.0	-51.0	
3	765 kV	SOLAPUR-RAICHUR	2	0	2109	0.0	30.4	-30.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2920	0.0	52.1	-52.1	
5	400 kV	KOLHAPUR-KUDGI	2	974	0	14.8	0.0	14.8	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	91	1.8	0.0	1.8	
						WR-SR	16.6	147.4	-130.8

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	133	0	93	2.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	102	0	87	2.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132KV-GEYLEGPHU - SALAKATI	12	0	0	0.0
	NER	132kV Motanga-Rangia	26	0	-10	-0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.6
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-348	-159	-329	-7.9
	ER	132KV-BIHAR - NEPAL	-324	-254	-284	-6.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-857	-660	-776	-18.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	78	0	-71	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	80	0	-71	-1.7