



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: 03rd 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 02.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd 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: 03-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)	47876	54909	48941	23153	2556	177435
Peak Shortage (MW)	400	0	0	0	67	467
Energy Met (MU)	938	1337	1248	483	44	4050
Hydro Gen (MU)	108	60	81	49	8	307
Wind Gen (MU)	10	55	82	-	-	146
Solar Gen (MU)*	51.20	39.90	117.56	5.46	0.23	214
Energy Shortage (MU)	7.79	0.00	0.00	0.00	1.54	9.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48481	58131	58433	23181	2851	177753
Time Of Maximum Demand Met (From NLDC SCADA)	19:32	11:14	11:57	19:01	18:32	10:57

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	0.041	0.00	0.43	9.93	10.36	79.02	10.62

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	5678	0	118.0	54.4	-0.9	181	0.19
	Harvana	6474	0	117.3	72.7	0.6	196	0.00
	Rajasthan	10032	0	205.2	38.5	-3.3	137	0.00
	Delhi	3503	0	71.0	55.7	-1.9	134	0.00
	UP	17896	0	308.8	120.2	-2.8	397	0.00
	Uttarakhand	1815	0	35.9	24.7	0.5	259	0.00
	HP	1527	0	28.9	20.4	1.0	271	0.00
	J&K(UT) & Ladakh(UT)	2421	400	49.8	39.6	-0.1	206	7.60
WR	Chandigarh	161	0	3.3	3.1	0.1	18	0.00
	Chhattisgarh	4692	0	112.7	48.3	0.8	286	0.00
	Gujarat	18526	0	395.8	121.2	1.1	885	0.00
	MP	10791	0	225.5	100.4	-1.3	456	0.00
	Maharashtra	24660	0	546.4	169.5	0.2	699	0.00
	Goa	501	0	11.2	10.9	-0.3	52	0.00
	DD	324	0	7.3	7.0	0.3	37	0.00
	DNH	833	0	19.2	18.6	0.6	96	0.00
SR	AMNSIL	857	0	18.9	1.3	0.6	286	0.00
	Andhra Pradesh	11472	0	234.1	115.0	2.4	957	0.00
	Telangana	13556	0	282.7	150.4	0.3	1492	0.00
	Karnataka	13946	0	277.1	87.9	0.0	508	0.00
	Kerala	3955	0	77.6	59.2	0.0	271	0.00
	Tamil Nadu	16473	0	367.2	211.6	-2.5	414	0.00
	Paducherry	437	0	9.1	9.0	0.1	55	0.00
	Bihar	5190	0	97.5	86.6	1.0	247	0.00
ER	DVC	3210	0	69.3	-45.3	-0.6	146	0.00
	Jharkhand	1496	0	28.4	19.4	0.6	184	0.00
	Odisha	4702	0	102.7	41.3	0.8	393	0.00
	West Bengal	8570	0	184.4	39.6	0.8	231	0.00
	Sikkim	71	0	1.0	1.2	-0.2	38	0.00
	NER	Arumachal Pradesh	120	1	2.2	1.9	0.2	22
Assam		1629	45	24.9	19.3	1.5	152	1.50
Manipur		166	1	2.5	2.4	0.1	28	0.01
Meghalaya		333	0	5.6	2.1	-0.3	28	0.00
Mizoram		93	1	1.9	1.6	0.1	26	0.01
Nagaland		110	2	2.2	1.8	0.4	18	0.01
Tripura		279	2	4.7	3.1	-0.3	81	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.9	-13.6	-22.9
Day Peak (MW)	310.0	-638.3	-1022.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	143.6	-319.6	223.8	-48.3	0.2	-0.3
Actual(MU)	119.1	-310.9	225.1	-42.0	2.8	-5.9
OD/UD(MU)	-24.5	8.7	1.3	6.3	2.6	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5199	14483	6392	2553	1222	29848	44
State Sector	14662	12051	7166	3643	11	37532	56
Total	19861	26533	13558	6196	1233	67380	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	562	1426	631	507	14	3140	76
Lignite	23	9	41	0	0	73	2
Hydro	108	60	81	49	8	307	7
Nuclear	27	21	42	0	0	90	2
Gas, Naptha & Diesel	33	48	12	0	23	115	3
RES (Wind, Solar, Biomass & Others)	82	95	232	5	0	414	10
Total	834	1659	1038	561	46	4137	100

Share of RES in total generation (%)	9.78	5.71	22.30	0.97	0.50	9.99
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.99	10.59	34.15	9.70	18.77	19.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.075
Based on State Max Demands	1.105

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: 03-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.4	-6.4
3	765 kV	GAYA-VARANASI	2	216	354	0.0	2.6	-2.6
4	765 kV	SASARAM-FATEHPUR	1	97	242	0.0	2.2	-2.2
5	765 kV	GAYA-BALIA	1	1	255	0.0	4.1	-4.1
6	400 kV	PUSAULI-VARANASI	1	0	235	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	74	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	429	498	0.0	3.1	-3.1
9	400 kV	PATNA-BALIA	4	130	516	0.0	6.6	-6.6
10	400 kV	BIHARSHARIFF-BALIA	2	139	238	0.0	2.6	-2.6
11	400 kV	MOTIHARI-GORAKHPUR	2	126	166	0.0	1.4	-1.4
12	400 kV	BIHARSHARIFF-VARANASI	2	99	184	0.0	1.9	-1.9
13	220 kV	PUSAULI-SAHUPURI	1	44	104	0.0	1.1	-1.1
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
						ER-NR	38.2	-37.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2071	0	38.2	0.0	38.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	990	150	9.5	0.0	9.5
3	765 kV	JHARSUGUDA-DURG	2	232	25	1.8	0.0	1.8
4	400 kV	JHARSUGUDA-RAIGARH	4	148	229	0.0	1.4	-1.4
5	400 kV	RANCHI-SIPAT	2	242	86	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	104	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	184	0	3.4	0.0	3.4
						ER-WR	54.5	3.1
						WR-NR	3.1	51.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	396	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	47.9	-47.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3152	0.0	58.6	-58.6
4	400 kV	TALCHER-I/C	2	0	179	0.0	3.1	-3.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	115.2
						SR-NR	115.2	-115.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	332	44	3.0	0.0	3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	538	21	4.9	0.0	4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	87	8	1.0	0.0	1.0
						ER-NER	8.8	0.0
						NER-NR	0.0	8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	11.7	0.0	11.7
						NER-NR	11.7	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	28.5	-28.5
2	HVDC	VINDHYACHAL B/B	-	93	0	5.3	0.0	5.3
3	HVDC	MUNDA-MOHENDERGARH	2	0	1552	0.0	33.3	-33.3
4	765 kV	GWALIOR-AGRA	2	0	2174	0.0	38.3	-38.3
5	765 kV	PHAGI-GWALIOR	2	0	1061	0.0	17.3	-17.3
6	765 kV	JABALPUR-ORAI	2	181	660	0.0	23.8	-23.8
7	765 kV	GWALIOR-ORAI	1	877	0	12.8	0.0	12.8
8	765 kV	SATNA-ORAI	1	0	1519	0.0	28.9	-28.9
9	765 kV	CHITORGARH-BANASKANTHA	2	1504	0	17.1	0.0	17.1
10	400 kV	ZERDA-KANKROLI	1	396	0	5.4	0.0	5.4
11	400 kV	ZERDA -BHINMAL	1	577	0	7.0	0.0	7.0
12	400 kV	VINDHYACHAL -RIHAND	1	989	0	22.6	0.0	22.6
13	400 kV	RAMP-SHILAI PUR	1	143	279	0.4	3.4	-3.0
14	220 kV	BHANPURA-RANPUR	1	24	63	0.0	0.4	-0.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.3	-0.3
16	220 kV	MEHGAON-AURAIYA	1	126	0	1.3	0.0	1.3
17	220 kV	MALANPUR-AURAIYA	1	89	7	0.7	0.0	0.7
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	72.5	174.1
						NR-WR	174.1	-101.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	19.6	-19.6
2	HVDC	RAIGARH-PUGAUR	2	0	1912	0.0	65.8	-65.8
3	765 kV	SOLAPUR-RAICHUR	2	0	1912	0.0	26.8	-26.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3216	0.0	58.8	-58.8
5	400 kV	KOLHAPUR-KUDGI	2	788	0	12.2	0.0	12.2
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	87	1.8	0.0	1.8
						WR-SR	14.0	171.0
						SR-WR	171.0	-157.1

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)	129	0	83	2.0
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	152	0	60	1.5
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	26	0	8	0.2
	NER	132KV-GEYLEGPHU - SALAKATI	-17	0	5	0.1
	NER	132KV Motanga-Rangia	20	8	-17	-0.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-322	-170	-313	-7.5
	ER	132KV-BIHAR - NEPAL	-316	-130	-255	-6.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-860	0	-854	-20.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	80	0	-49	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-49	-1.2