



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: 05th 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 04.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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: 05-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)	45351	53479	45388	20499	1805	166522
Peak Shortage (MW)	351	0	0	0	647	998
Energy Met (MU)	910	1325	1201	474	43	3954
Hydro Gen (MU)	108	46	70	34	7	265
Wind Gen (MU)	14	51	67	-	-	131
Solar Gen (MU)*	51.02	39.88	108.34	5.46	0.04	205
Energy Shortage (MU)	6.40	0.00	0.00	0.00	2.69	9.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	45750	57207	56001	22802	2552	173444
Time Of Maximum Demand Met (From NLDC SCADA)	19:55	11:24	11:48	00:00	18:12	09:29

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	0.034	0.00	0.78	4.05	4.83	79.30	15.88

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	5608	0	118.4	58.6	-2.0	91	0.00
	Haryana	5699	0	107.8	83.4	0.4	225	0.00
	Rajasthan	9913	0	200.7	25.8	-0.7	397	0.00
	Delhi	3215	0	68.0	52.4	-1.6	95	0.00
	UP	17607	0	301.9	116.6	-1.1	441	0.00
	Uttarakhand	1713	0	34.6	23.1	-0.4	101	0.00
	HP	1418	0	26.3	18.4	0.5	139	0.00
	J&K(UT) & Ladakh(UT)	2529	350	49.3	40.0	0.6	262	6.40
	Chandigarh	159	0	2.9	3.3	-0.4	2	0.00
WR	Chhattisgarh	4688	0	113.3	53.4	-0.4	246	0.00
	Gujarat	17840	0	387.9	100.9	1.6	452	0.00
	MP	10780	0	227.0	114.3	-1.5	419	0.00
	Maharashtra	24371	0	540.6	175.5	0.2	706	0.00
	Goa	484	0	11.0	10.5	-0.1	21	0.00
	DD	311	0	7.0	6.9	0.1	24	0.00
	DNH	821	0	19.2	19.3	-0.1	31	0.00
	AMNSIL	854	0	18.9	1.2	0.4	269	0.00
	SR	Andhra Pradesh	11021	0	221.4	110.1	0.1	937
Telangana		13063	0	276.9	145.6	-0.6	538	0.00
Karnataka		13157	0	266.0	89.7	-0.2	1059	0.00
Kerala		3954	0	77.2	58.4	0.7	286	0.00
Tamil Nadu		15214	0	351.3	197.0	-1.3	385	0.00
Puducherry		412	0	8.8	8.7	0.0	38	0.00
ER	Bihar	5246	0	97.5	88.2	-0.7	421	0.00
	DVC	3213	0	70.3	-52.9	-1.0	224	0.00
	Jharkhand	1502	0	28.9	21.4	-1.1	93	0.00
	Odisha	5032	0	107.7	49.7	0.2	527	0.00
	West Bengal	8931	0	168.9	35.2	-2.2	413	0.00
	Sikkim	65	0	0.9	1.3	-0.4	27	0.00
NER	Arumachal Pradesh	117	5	2.2	2.0	0.1	36	0.01
	Assam	1395	301	25.7	21.6	0.0	99	2.60
	Manipur	188	6	2.3	2.4	-0.1	25	0.01
	Meghalaya	293	0	5.1	2.2	0.0	75	0.00
	Mizoram	86	6	1.6	1.5	-0.2	12	0.01
	Nagaland	114	5	1.9	1.8	0.1	22	0.01
	Tripura	251	45	4.5	3.1	-0.1	13	0.05

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.0	-15.7	-19.5
Day Peak (MW)	192.0	-742.0	-1001.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	136.9	-300.6	226.7	-65.5	2.5	0.0
Actual(MU)	118.8	-293.9	230.7	-65.9	4.1	-6.2
OD/UD(MU)	-18.1	6.7	4.0	-0.4	1.6	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5199	14923	6242	2253	1222	29838	43
State Sector	16127	12124	6106	4413	11	38780	57
Total	21326	27046	12348	6666	1233	68618	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	534	1416	607	533	13	3103	77
Lignite	24	9	39	0	0	72	2
Hydro	108	46	71	34	7	265	7
Nuclear	27	23	44	0	0	94	2
Gas, Naptha & Diesel	32	46	13	0	23	115	3
RES (Wind, Solar, Biomass & Others)	85	92	208	5	0	391	10
Total	810	1632	982	572	44	4040	100

Share of RES in total generation (%)	10.53	5.61	21.20	0.95	0.09	9.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.14	9.85	32.88	6.92	16.12	18.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.063
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: 05-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	248	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	74	519	0.0	5.1	-5.1
4	765 kV	SASARAM-FATEHPUR	1	0	178	0.0	2.4	-2.4
5	765 kV	GAYA-BALIA	1	0	367	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	0	200	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	98	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	294	457	0.0	1.8	-1.8
9	400 kV	PATNA-BALIA	4	0	894	0.0	12.6	-12.6
10	400 kV	BIHARSHARIFF-BALIA	2	164	238	0.0	1.1	-1.1
11	400 kV	MOTIHARI-GORAKHPUR	2	30	366	0.0	3.4	-3.4
12	400 kV	BIHARSHARIFF-VARANASI	2	38	260	0.0	2.1	-2.1
13	220 kV	PUSAULI-SAHUPURI	1	33	116	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	0.4	0.0	0.4
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	46.4	-46.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2214	0	39.6	0.0	39.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	675	550	1.4	0.0	1.4
3	765 kV	JHARSUGUDA-DURG	2	178	88	1.5	0.0	1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	51	246	0.0	1.5	-1.5
5	400 kV	RANCHI-SIPAT	2	129	216	0.0	0.8	-0.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	161	0	2.7	0.0	2.7
						ER-WR	45.2	40.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	417	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2472	0.0	49.6	-49.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3388	0.0	60.6	-60.6
4	400 kV	TALCHER-I/C	2	0	653	0.0	4.6	-4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	118.8	-118.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	302	64	2.4	0.0	2.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	532	41	4.5	0.0	4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	101	5	0.7	0.0	0.7
						ER-NER	7.6	7.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	11.7	0.0	11.7
						NER-NR	11.7	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2003	0.0	41.8	-41.8
2	HVDC	VINDHYACHAL B/B	-	253	0	6.1	0.0	6.1
3	HVDC	MUNDA-MOHENDERGARH	2	0	1919	0.0	45.9	-45.9
4	765 kV	GWALIOR-AGRA	2	0	2062	0.0	31.2	-31.2
5	765 kV	PHAGI-GWALIOR	2	0	847	0.0	11.8	-11.8
6	765 kV	JABALPUR-ORAI	2	554	639	0.0	16.0	-16.0
7	765 kV	GWALIOR-ORAI	1	610	0	10.3	0.0	10.3
8	765 kV	SATNA-ORAI	1	0	1258	0.0	24.8	-24.8
9	765 kV	CHITORGARH-BANASKANTHA	2	1593	0	18.2	0.0	18.2
10	400 kV	ZERDA-KANKROLI	1	421	0	7.7	0.0	7.7
11	400 kV	ZERDA -BHINMAL	1	621	0	8.5	0.0	8.5
12	400 kV	VINDHYACHAL -RIHAND	1	990	0	22.7	0.0	22.7
13	400 kV	RAMP-SHILAPUR	1	351	165	1.7	0.6	1.1
14	220 kV	BHANPURA-RANPUR	2	52	25	0.4	0.1	0.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.9	0.0	0.9
16	220 kV	MEHGAON-AURAIYA	1	125	0	0.9	0.0	0.9
17	220 kV	MALANPUR-AURAIYA	1	88	0	1.5	0.0	1.5
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	78.9	-93.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	18.6	-18.6
2	HVDC	RAIGARH-PUGAUR	2	0	3016	0.0	60.1	-60.1
3	765 kV	SOLAPUR-RAICHUR	2	0	1944	0.0	31.8	-31.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3299	0.0	60.4	-60.4
5	400 kV	KOLHAPUR-KUDGI	2	721	0	11.4	0.0	11.4
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	84	1.7	0.0	1.7
						WR-SR	13.1	-157.8

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)	81	0	56	1.3
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	104	56	72	1.7
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	12	0	-8	-0.2
	NER	132KV-GEYLEGPHU - SALAKATI	11	-2	2	0.0
NEPAL	NER	132KV Motanga-Rangia	-16	12	-6	-0.2
	ER	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-65	0	-55	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-335	-244	-327	-7.8
BANGLADESH	ER	132KV-BIHAR - NEPAL	-342	-171	-271	-6.5
	ER	BHERAMARA HVDC(BANGLADESH)	-859	-206	-713	-17.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	71	0	-50	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	71	0	-50	-1.2