



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: 29th 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 28.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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: 29-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)	50487	51030	44815	23975	2368	172675
Peak Shortage (MW)	375	0	13	0	62	450
Energy Met (MU)	1086	1286	1070	525	47	4014
Hydro Gen (MU)	141	48	74	46	9	318
Wind Gen (MU)	14	54	41	-	-	110
Solar Gen (MU)*	48.36	37.29	104.23	5.66	0.20	196
Energy Shortage (MU)	7.81	0.00	0.09	0.00	1.03	8.93
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51626	57990	49757	24265	2658	176255
Time Of Maximum Demand Met (From NLDC SCADA)	19:47	15:40	14:53	00:01	18:35	12:27

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	0.040	0.00	0.74	7.92	8.66	76.37	14.98

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	6415	0	138.5	68.2	-0.6	197	0.00
	Haryana	7720	0	138.2	113.0	0.6	234	0.00
	Rajasthan	11263	0	227.4	59.4	0.9	548	0.79
	Delhi	3818	0	76.1	59.9	-0.7	180	0.00
	UP	19837	0	381.9	130.3	0.1	517	0.61
	Uttarakhand	1790	0	38.9	19.7	1.4	169	0.00
	HP	1532	0	30.3	12.9	0.0	113	0.01
	J&K(UT) & Ladakh(UT)	2525	350	50.0	39.6	-0.4	388	6.40
	Chandigarh	210	0	4.3	4.1	0.1	36	0.00
	Chhattisgarh	4300	0	101.7	41.5	0.0	343	0.00
WR	Gujarat	17824	0	377.8	100.8	1.6	1086	0.00
	MP	10401	0	231.8	136.1	-2.2	442	0.00
	Maharashtra	23955	0	522.3	163.4	-2.2	502	0.00
	Goa	524	0	10.4	10.4	-0.5	57	0.00
	DD	307	0	6.8	6.7	0.1	22	0.00
	DNH	742	0	17.2	17.3	-0.1	36	0.00
	AMNSIL	807	0	17.7	1.2	0.3	359	0.00
SR	Andhra Pradesh	10316	0	206.2	104.6	0.7	743	0.00
	Telangana	9011	0	182.2	59.0	-0.1	492	0.00
	Karnataka	11197	0	223.3	57.6	0.7	621	0.00
	Kerala	4044	0	82.8	61.2	0.1	240	0.00
	Tamil Nadu	16286	0	366.3	245.4	0.4	695	0.00
	Puducherry	444	0	9.3	9.4	-0.1	45	0.09
ER	Bihar	5783	0	117.7	104.9	3.0	363	0.00
	DVC	3127	0	68.0	-43.3	0.6	260	0.00
	Jharkhand	1663	0	31.1	27.0	-1.1	166	0.00
	Odisha	5605	0	118.7	48.5	-0.6	397	0.00
	West Bengal	9181	0	188.9	52.0	-0.4	305	0.00
	Sikkim	63	0	0.9	1.5	-0.6	2	0.00
NER	Arunachal Pradesh	112	2	2.2	2.4	-0.2	22	0.01
	Assam	1433	0	27.7	25.3	-1.1	204	0.00
	Manipur	206	3	2.7	2.7	0.0	29	0.01
	Meghalaya	239	19	4.2	3.5	0.1	48	0.99
	Mizoram	110	2	1.7	1.7	0.0	17	0.01
	Nagaland	146	14	2.4	2.4	0.0	25	0.01
	Tripura	304	4	5.8	5.1	0.9	104	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.8	-17.8	-22.2
Day Peak (MW)	434.0	-807.0	-1032.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	213.4	-318.3	155.3	-60.5	10.0	0.0
Actual(MU)	213.2	-325.3	164.3	-66.0	9.6	-4.2
O/D/U/D(MU)	-0.2	-7.0	9.0	-5.5	-0.4	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4877	14893	7832	548	968	29118	44
State Sector	12820	12868	6765	5045	11	37509	56
Total	17697	27761	14597	5593	979	66627	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	584	1383	562	574	13	3116	76
Lignite	19	11	44	0	0	75	2
Hvdro	141	48	74	46	9	318	8
Nuclear	26	28	59	0	0	113	3
Gas, Naptha & Diesel	36	74	11	0	21	142	3
RES (Wind, Solar, Biomass & Others)	91	92	172	6	0	361	9
Total	897	1636	923	626	44	4125	100
Share of RES in total generation (%)	10.17	5.61	18.65	0.90	0.46	8.75	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.82	10.23	33.07	8.31	21.07	19.21	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.096

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-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	247	0.0	6.3	-6.3
3	765 kV	GAYALVARANASI	2	0	438	0.0	5.0	-5.0
4	765 kV	SASARAM-FATEHPUR	1	62	178	0.0	0.9	-0.9
5	765 kV	GAYA-BALIA	1	0	392	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	5.5	-5.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	69	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	256	409	0.0	3.0	-3.0
9	400 kV	PATNA-BALIA	4	0	770	0.0	13.2	-13.2
10	400 kV	BIHARSHARIFF-BALIA	2	157	169	0.0	1.1	-1.1
11	400 kV	MOTIHARI-GORAKHPUR	2	28	284	0.0	3.8	-3.8
12	400 kV	BIHARSHARIFF-VARANASI	2	117	96	0.1	0.0	0.1
13	220 kV	PUSAULI-SAHUPURI	1	38	68	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.5	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
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	47.1	-46.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1013	0	16.5	0.0	16.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1384	0	19.9	0.0	19.9
3	765 kV	JHARSUGUDA-DURG	2	125	159	0.3	0.0	0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	214	116	1.5	0.0	1.5
5	400 kV	RANCHI-SIPAT	2	350	0	4.4	0.0	4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	112	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	156	0	2.0	0.0	2.0
						ER-WR	44.5	42.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	529	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1977	0.0	47.6	-47.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2808	0.0	55.6	-55.6
4	400 kV	TALCHER-I/C	2	376	220	0.0	3.5	-3.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	114.4	-114.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	261	201	0.8	0.0	0.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	405	289	0.7	0.0	0.7
3	220 kV	ALIPURDUAR-SALAKATI	2	109	41	0.4	0.0	0.4
						ER-NER	1.9	0.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	492	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	0	0.0	44.4	-44.4
2	HVDC	VINDHYACHAL B/B	-	0	257	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1920	0.0	47.0	-47.0
4	765 kV	GWALIOR-AGRA	2	0	2566	0.0	48.0	-48.0
5	765 kV	PHAGI-GWALIOR	2	0	1672	0.0	30.2	-30.2
6	765 kV	JABALPUR-ORAI	2	548	943	0.0	33.7	-33.7
7	765 kV	GWALIOR-ORAI	1	708	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	1444	0.0	30.5	-30.5
9	765 kV	CHITORGARH-BANASKANTHA	2	884	0	15.6	0.0	15.6
10	400 kV	ZERDA-KANKROLI	1	235	0	3.8	0.0	3.8
11	400 kV	ZERDA-BHINMAL	1	332	0	4.6	0.0	4.6
12	400 kV	VINDHYACHAL-RIHAND	1	981	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUALPUR	2	0	472	0.0	5.8	-5.8
14	220 kV	BHANPURA-RANPUR	1	0	105	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
16	220 kV	MEHGAON-AURAIYA	1	80	12	0.2	0.2	-0.1
17	220 kV	MALANPUR-AURAIYA	1	46	34	0.6	0.6	0.6
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	60.6	248.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	715	0.0	16.3	-16.3
2	HVDC	RAIGARH-PUGALUR	2	0	2002	0.0	30.8	-30.8
3	765 kV	SOLAPUR-RAICHUR	2	0	1825	0.0	22.1	-22.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2098	0.0	32.9	-32.9
5	400 kV	KOLHAPUR-KUDGI	2	512	223	5.1	0.3	4.8
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	86	1.7	0.0	1.7
						WR-SR	6.8	102.4

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR I&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	262	0	228	5.5
	ER	400KV TALA-BINAGURI I,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	144	112	132	3.2
	ER	220KV CHUKHA-BIRPARA I&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	27	0	7	0.2
	NER	132KV-GEYLEGPHU - SALAKATI	23	3	7	0.2
NEPAL	NER	132KV Motanga-Rangia	-21	9	-7	-0.2
	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-78	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-381	-310	-375	-9.0
BANGLADESH	ER	132KV-BIHAR - NEPAL	-348	-282	-293	-7.0
	ER	BHERAMARA HVDC(BANGLADESH)	-862	-740	-773	-18.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-76	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	85	0	-76	-1.8