National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 30th Mar 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., डोंगतिएह, 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 29.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-मार्च-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 29th March 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: 30-Mar-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 19:00 hrs; from RLDCs)	35779	45151	45870	20937	2267	150004
Peak Shortage (MW)	400	0	0	0	274	674
Energy Met (MU)	851	1165	1181	444	42	3683
Hydro Gen (MU)	108	36	63	32	4	243
Wind Gen (MU)	38	81	27	-	-	147
Solar Gen (MU)*	49.54	38.75	101.73	5.09	0.16	195
Energy Shortage (MU)	7.62	0.00	0.00	0.00	1.94	9.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	39349	52594	56076	21290	2524	159810
Time Of Maximum Demand Met (From NLDC SCADA)	19:27	06:51	11:44	20:20	18:15	11:45

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	0.039	0.00	0.00	5.31	5.31	72.97	21.72

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	5477	0	109.7	59.3	-1.5	110	0.00
	Haryana	4587	0	91.9	55.1	0.9	226	0.00
	Rajasthan	8824	0	178.2	-2.5	-0.7	580	0.00
	Delhi	2728	0	56.3	42.0	-1.3	226	0.01
	UP	15473	0	318.7	154.4	-2.5	698	0.00
	Uttarakhand	1250	0	26.4	19.8	0.4	177	0.00
	HP	1031	0	21.3	13.8	0.3	179	0.01
	J&K(UT) & Ladakh(UT)	2418	400	45.7	37.1	-1.8	149	7.60
	Chandigarh	157	0	2.8	3.0	-0.2	18	0.00
WR	Chhattisgarh	4327	0	98.4	38.9	-0.8	206	0.00
	Gujarat	14197	0	306.2	95.2	-3.8	1834	0.00
	MP	10265	0	208.7	113.9	-3.1	543	0.00
	Maharashtra	22303	0	504.2	162.3	0.0	727	0.00
	Goa	495	0	11.0	10.8	-0.3	38	0.00
	DD	274	0	4.1	3.9	0.2	25	0.00
	DNH	786	0	13.7	13.5	0.2	64	0.00
	AMNSIL	838	0	18.2	1.2	0.6	285	0.00
SR	Andhra Pradesh	11068	0	219.6	117.9	0.1	542	0.00
	Telangana	12926	0	270.9	138.4	0.9	793	0.00
	Karnataka	13635	0	261.0	104.1	-0.1	549	0.00
	Kerala	3637	0	80.0	60.6	-0.1	290	0.00
	Tamil Nadu	15702	0	341.7	230.7	-5.1	446	0.00
	Puducherry	354	0	7.6	8.2	-0.6	19	0.00
ER	Bihar	4989	0	93.2	85.8	-1.8	528	0.00
	DVC	3018	0	62.8	-48.3	-0.8	482	0.00
	Jharkhand	1455	0	28.2	23.4	-2.6	140	0.00
	Odisha	4491	0	92.6	34.6	0.2	431	0.00
	West Bengal	8141	0	166.8	39.9	-1.2	290	0.00
	Sikkim	58	0	0.8	1.0	-0.2	31	0.00
NER	Arunachal Pradesh	121	3	2.2	2.5	-0.4	2	0.01
	Assam	1243	240	23.7	19.3	-0.2	100	1.90
	Manipur	185	3	2.7	2.7	0.0	40	0.01
	Meghalaya	341	0	5.7	4.8	0.0	43	0.00
	Mizoram	111	4	1.6	1.5	-0.1	27	0.01
	Nagaland	138	8	2.1	2.1	0.0	24	0.01
	Tripura	285	5	4.5	3.8	0.0	72	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.9	-10.4	-23.9
Day Peak (MW)	218.0	-569.6	-1010.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	103.1	-300.7	271.8	-84.4	10.1	0.0
Actual(MU)	75.2	-292.3	271.7	-71.1	10.3	-6.2
O/D/U/D(MU)	-28.0	8.4	0.0	13.3	0.2	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5099	13633	6342	1168	1222	27463	40
State Sector	14502	14983	7536	3500	11	40532	60
Total	19601	28615	13878	4668	1233	67995	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	492	1251	604	504	10	2861	76
Lignite	22	10	43	0	0	75	2
Hydro	108	36	63	32	4	243	6
Nuclear	27	41	42	0	0	109	3
Gas, Naptha & Diesel	27	28	15	0	24	93	2
RES (Wind, Solar, Biomass & Others)	115	121	163	5	0	404	11
Total	791	1487	929	541	38	3785	100

Share of RES in total generation (%)	14.51	8.13	17.56	0.95	0.42	10.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.59	13.29	28.76	6.89	10.25	19.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.075
Based on State Max Demands	1.110

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: 30-Mar-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	0.0	0.0
3	765 kV	GAYA-VARANASI	2	118	489	0.0	3.7	-3.7
4	765 kV	SASARAM-FATEHPUR	1	229	178	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	0	357	0.0	5.5	-5.5
6	400 kV	PUSAULI-VARANASI	1	0	230	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	104	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	364	227	1.4	0.0	1.4
9	400 kV	PATNA-BALIA	4	0	787	0.0	9.6	-9.6
10	400 kV	BIHARSHARIFF-BALIA	2	225	88	1.3	0.0	1.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	205	0.0	2.4	-2.4
12	400 kV	BIHARSHARIFF-VARANASI	2	145	183	0.0	0.1	-0.1
13	220 kV	PUSAULI-SAHUPURI	1	16	70	0.0	1.0	-1.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	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	3.2	29.2	-26.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1591	0	28.9	0.0	28.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1200	204	12.9	0.0	12.9
3	765 kV	JHARSUGUDA-DURG	2	148	121	0.0	0.0	0.0
4	400 kV	JHARSUGUDA-RAIGARH	4	225	194	0.2	0.0	0.2
5	400 kV	RANCHI-SIPAT	2	345	76	2.6	0.0	2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	116	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	214	0	3.7	0.0	3.7
					ER-WR	48.1	1.8	46.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	350	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2479	0.0	51.9	-51.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3127	0.0	67.6	-67.6
4	400 kV	TALCHER-I/C	2	0	1364	0.0	16.6	-16.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	128.1	-128.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	82	77	0.3	0.0	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	147	92	0.6	0.0	0.6
3	220 kV	ALIPURDUAR-SALAKATI	2	19	8	0.1	0.0	0.1
					ER-NER	1.0	0.0	1.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	19.4	-19.4
2	HVDC	VINDHYACHAL B/B	-	226	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	884	0.0	17.2	-17.2
4	765 kV	GWALIOR-AGRA	2	0	2484	0.0	38.6	-38.6
5	765 kV	PHAGI-GWALIOR	2	344	597	1.0	4.6	-3.7
6	765 kV	JABALPUR-ORAI	2	669	699	0.0	19.1	-19.1
7	765 kV	GWALIOR-ORAI	1	395	0	6.6	0.0	6.6
8	765 kV	SATNA-ORAI	1	0	1336	0.0	26.1	-26.1
9	765 kV	CHITORGARH-BANASKANTHA	2	817	470	5.1	0.0	5.1
10	400 kV	ZERDA-KANKROLI	1	268	0	4.2	0.0	4.2
11	400 kV	ZERDA -BHINMAL	1	536	0	7.8	0.0	7.8
12	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	406	158	4.0	0.3	3.7
14	220 kV	BHANPURA-RANPUR	1	55	53	0.6	0.2	0.5
15	220 kV	BHANPURA-MORAK	1	0	30	1.1	0.1	1.0
16	220 kV	MEHGAON-AURAIYA	1	96	0	0.5	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	60	10	1.2	0.0	1.2
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	60.9	125.6	-64.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	22.7	-22.7
2	HVDC	RAIGARH-PUGALUR	2	0	1516	0.0	69.7	-69.7
3	765 kV	SOLAPUR-RAICHUR	2	0	2047	0.0	39.2	-39.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3251	0.0	66.1	-66.1
5	400 kV	KOLHAPUR-KUDGI	2	826	0	13.2	0.0	13.2
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	84	1.6	0.0	1.6
					WR-SR	14.8	197.7	-182.9

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 MANGDECHU HEP 4*180MW)	153	0	122	2.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	47	39	43	1.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.1
	NER	132KV-GEYLEGPHU - SALAKATI	29	12	20	0.5
	NER	132kV Motanga-Rangia	12	1	-7	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-362	-260	-329	-7.9
	ER	132KV-BIHAR - NEPAL	-208	-71	-104	-2.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-866	0	-861	-20.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	72	0	-67	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	72	0	-67	-1.6