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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30th 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., 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 29.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-अप्रैल-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 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:** **30-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)	46463	50018	42830	22487	2842	164640
Peak Shortage (MW)	350	0	0	0	55	405
Energy Met (MU)	1104	1286	1073	508	50	4021
Hydro Gen (MU)	156	53	74	44	7	334
Wind Gen (MU)	16	53	50	-	-	119
Solar Gen (MU)*	42.75	34.47	102.10	5.23	0.23	185
Energy Shortage (MU)	6.82	0.00	0.00	0.00	0.91	7.73
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49394	56950	49990	23569	3075	177692
Time Of Maximum Demand Met (From NLDC SCADA)	11:26	14:43	12:45	21:36	18:38	12:38

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	0.030	0.00	0.00	2.60	2.60	75.15	22.24

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	6771	0	150.8	79.8	-1.0	175	0.00
	Haryana	7292	0	150.5	112.6	-1.4	188	0.00
	Rajasthan	11527	0	228.3	63.1	-1.1	445	0.21
	Delhi	3940	0	79.1	62.8	-1.1	89	0.01
	UP	18354	290	377.5	140.6	2.5	814	0.20
	Uttarakhand	1734	0	36.8	19.2	-0.1	388	0.00
	HP	1419	52	29.3	12.1	0.3	187	0.00
	J&K(UT) & Ladakh(UT)	2499	350	47.7	35.4	-0.8	286	6.40
	Chandigarh	220	0	4.3	4.3	0.0	25	0.00
WR	Chhattisgarh	4226	0	101.1	40.1	-0.4	611	0.00
	Gujarat	18256	0	383.1	115.2	0.0	770	0.00
	MP	10499	0	229.5	133.5	-2.2	552	0.00
	Maharashtra	23743	0	519.7	152.2	-0.4	828	0.00
	Goa	518	0	11.6	11.3	-0.2	47	0.00
	DD	302	0	6.8	6.6	0.2	21	0.00
	DNH	721	0	16.7	16.8	-0.1	52	0.00
	AMNSIL	831	0	17.5	1.2	0.3	315	0.00
SR	Andhra Pradesh	10211	0	206.0	104.9	0.8	670	0.00
	Telangana	8981	0	180.9	55.3	0.5	529	0.00
	Karnataka	11810	0	221.0	55.8	-0.2	567	0.00
	Kerala	4002	0	84.6	59.3	0.6	223	0.00
	Tamil Nadu	16461	0	371.2	238.5	1.0	1097	0.00
	Puducherry	419	0	9.1	9.3	-0.2	22	0.00
ER	Bihar	6097	0	116.8	101.8	6.4	511	0.00
	DVC	3069	0	65.9	-43.3	-0.1	289	0.00
	Jharkhand	1508	0	27.7	25.5	-2.5	178	0.00
	Odisha	5656	0	118.0	45.9	-0.1	328	0.00
	West Bengal	8657	0	178.5	40.5	-0.6	412	0.00
	Sikkim	68	0	0.9	1.4	-0.6	14	0.00
NER	Arunachal Pradesh	144	2	2.1	2.1	-0.1	39	0.01
	Assam	1832	4	31.4	27.4	0.3	141	0.00
	Manipur	197	2	2.7	2.6	0.0	36	0.01
	Meghalaya	279	42	4.4	3.8	0.0	216	0.87
	Mizoram	110	2	1.8	1.7	0.1	11	0.01
	Nagaland	146	1	2.3	2.3	0.0	24	0.01
	Tripura	298	0	5.5	4.5	0.4	88	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.9	-17.0	-24.5
Day Peak (MW)	406.0	-835.0	-1097.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	235.6	-320.6	147.8	-74.9	12.1	0.0
Actual(MU)	233.4	-327.9	153.6	-78.7	13.4	-6.2
O/D/U/D(MU)	-2.2	-7.3	5.8	-3.8	1.3	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4877	14893	7972	1048	968	29758	45
State Sector	12260	13613	6495	4545	11	36924	55
Total	17137	28506	14467	5593	979	66682	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	577	1391	567	569	13	3117	76
Lignite	20	10	43	0	0	73	2
Hydro	156	53	74	44	7	334	8
Nuclear	22	28	59	0	0	109	3
Gas, Naptha & Diesel	35	68	11	0	22	136	3
RES (Wind, Solar, Biomass & Others)	86	88	178	5	0	357	9
Total	895	1637	932	619	43	4126	100

Share of RES in total generation (%)	9.56	5.37	19.06	0.85	0.53	8.64
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.41	10.31	33.36	8.01	17.93	19.39

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.085

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-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	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	463	0.0	7.1	-7.1
4	765 kV	SASARAM-FATEHPUR	1	79	157	0.0	1.5	-1.5
5	765 kV	GAYA-BALIA	1	0	416	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	255	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	54	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	199	365	0.0	3.3	-3.3
9	400 kV	PATNA-BALIA	4	0	744	0.0	13.4	-13.4
10	400 kV	BIHARSHARIFF-BALIA	2	145	152	0.0	1.2	-1.2
11	400 kV	MOTIHARI-GORAKHPUR	2	7	265	0.0	4.0	-4.0
12	400 kV	BIHARSHARIFF-VARANASI	2	94	108	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	1	38	70	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	0.5	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	0.5	51.2	-50.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1284	0	14.1	0.0	14.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1128	0	19.6	0.0	19.6
3	765 kV	JHARSUGUDA-DURG	2	73	126	0.0	0.2	-0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	138	182	0.0	0.4	-0.4
5	400 kV	RANCHI-SIPAT	2	297	0	4.9	0.0	4.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	112	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	174	0	2.8	0.0	2.8
					ER-WR	41.4	2.2	39.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	527	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1978	0.0	37.2	-37.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2993	0.0	57.0	-57.0
4	400 kV	TALCHER-I/C	2	860	639	0.0	1.9	-1.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	105.4	-105.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	157	263	0.0	1.0	-1.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	236	364	0.0	1.6	-1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	46	85	0.0	0.4	-0.4
					ER-NER	0.0	3.1	-3.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	490	0	10.5	0.0	10.5
					NER-NR	10.5	0.0	10.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	47.7	-47.7
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1920	0.0	48.4	-48.4
4	765 kV	GWALIOR-AGRA	2	0	2713	0.0	50.4	-50.4
5	765 kV	PHAGI-GWALIOR	2	0	1718	0.0	33.0	-33.0
6	765 kV	JABALPUR-ORAI	2	0	1004	0.0	36.5	-36.5
7	765 kV	GWALIOR-ORAI	1	734	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	1485	0.0	31.4	-31.4
9	765 kV	CHITORGARH-BANASKANTHA	2	1129	0	17.7	0.0	17.7
10	400 kV	ZERDA-KANKROLI	1	266	0	4.1	0.0	4.1
11	400 kV	ZERDA -BHINMAL	1	362	0	5.0	0.0	5.0
12	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	523	0.0	8.3	-8.3
14	220 kV	BHANPURA-RANPUR	1	0	122	0.0	1.6	-1.6
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
16	220 kV	MEHGAON-AURAIYA	1	80	16	0.1	0.3	-0.2
17	220 kV	MALANPUR-AURAIYA	1	47	40	0.5	0.0	0.5
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	63.7	264.8	-201.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	549	0.0	12.3	-12.3
2	HVDC	RAIGARH-PUGALUR	2	0	2001	0.0	26.5	-26.5
3	765 kV	SOLAPUR-RAICHUR	2	393	2083	0.4	19.5	-19.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2344	0.0	34.4	-34.4
5	400 kV	KOLHAPUR-KUDGI	2	476	150	3.8	0.2	3.6
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	88	1.8	0.0	1.8
					WR-SR	6.0	93.0	-87.0

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)	213	0	171	4.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	131	0	113	2.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	41	0	3	0.1
	NER	132KV-GEYLEGPHU - SALAKATI	36	5	16	0.4
	NER	132kV Motanga-Rangia	-16	0	-7	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-79	0	-73	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-399	-281	-354	-8.5
	ER	132KV-BIHAR - NEPAL	-357	-219	-280	-6.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-937	-862	-877	-21.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	80	0	-73	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	80	0	-73	-1.8