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 May 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 29.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-मई -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 May 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-May-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)	48148	46941	36654	19803	2961	154507
Peak Shortage (MW)	325	0	0	0	4	329
Energy Met (MU)	1136	1196	911	432	54	3730
Hydro Gen (MU)	243	69	91	123	19	544
Wind Gen (MU)	34	112	149	-	-	295
Solar Gen (MU)*	50.53	38.34	106.62	5.09	0.22	201
Energy Shortage (MU)	6.82	0.00	0.00	0.00	0.04	6.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51260	53038	42373	20845	3158	164030
Time Of Maximum Demand Met (From NLDC SCADA)	22:23	15:03	12:15	23:50	19:18	13:58

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	0.028	0.00	0.24	3.12	3.37	73.52	23.11

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	8268	0	177.3	121.1	-3.0	255	0.00
	Haryana	7815	0	163.1	144.6	-0.8	261	0.00
	Rajasthan	11372	0	242.1	75.9	-0.4	286	0.00
	Delhi	4743	0	86.1	76.6	-2.1	332	0.00
	UP	18314	0	348.0	144.8	0.5	692	3.24
	Uttarakhand	1726	0	38.2	19.5	-0.4	151	0.00
	HP	1394	0	28.9	4.6	0.0	177	0.13
	J&K(UT) & Ladakh(UT)	2384	250	47.2	26.3	-1.9	572	3.45
	Chandigarh	265	0	4.8	5.5	-0.6	14	0.00
WR	Chhattisgarh	3866	0	90.5	38.7	0.9	265	0.00
	Gujarat	16668	0	352.4	132.9	4.7	1147	0.00
	MP	9517	0	214.3	115.8	-3.2	408	0.00
	Maharashtra	22141	0	484.5	163.4	-0.3	698	0.00
	Goa	546	0	11.8	9.8	1.4	48	0.00
	DD	298	0	6.6	6.3	0.3	28	0.00
	DNH	727	0	16.9	16.7	0.2	73	0.00
	AMNSIL	884	0	18.8	1.0	0.7	320	0.00
SR	Andhra Pradesh	10239	0	203.5	100.7	3.7	1204	0.00
	Telangana	7923	0	162.6	60.8	0.9	689	0.00
	Karnataka	10460	0	198.6	84.0	4.9	870	0.00
	Kerala	3209	0	65.1	35.7	0.3	245	0.00
	Tamil Nadu	12499	0	273.9	123.9	-0.5	927	0.00
	Puducherry	382	0	7.7	7.7	0.1	40	0.00
ER	Bihar	4881	0	73.1	72.4	0.2	691	0.00
	DVC	2921	0	62.9	-48.9	-0.1	503	0.00
	Jharkhand	1395	0	25.3	22.0	-2.0	210	0.00
	Odisha	4802	0	110.4	42.4	1.7	305	0.00
	West Bengal	7970	0	159.3	42.9	0.0	453	0.00
	Sikkim	84	0	1.2	1.5	-0.3	15	0.00
NER	Arunachal Pradesh	114	0	2.1	1.8	0.2	76	0.01
	Assam	1888	0	35.0	29.0	0.9	134	0.00
	Manipur	207	1	2.6	2.5	0.1	22	0.01
	Meghalaya	315	0	5.4	2.4	0.1	42	0.00
	Mizoram	109	0	1.5	1.7	-0.2	17	0.01
	Nagaland	141	2	2.4	2.5	-0.1	16	0.01
	Tripura	298	0	5.4	4.3	0.3	76	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.3	-0.9	-25.2
Day Peak (MW)	2060.0	-281.9	-1090.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	310.4	-241.8	69.5	-143.5	5.4	0.0
Actual(MU)	286.4	-231.2	71.7	-134.2	6.5	-0.7
O/D/U/D(MU)	-24.0	10.6	2.2	9.3	1.1	-0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7097	19553	10022	2540	772	39983	42
State Sector	14283	19775	14868	6375	11	55312	58
Total	21380	39328	24890	8915	783	95295	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	450	1153	359	481	11	2454	64
Lignite	22	12	54	0	0	88	2
Hydro	243	69	91	123	19	545	14
Nuclear	30	20	65	0	0	115	3
Gas, Naptha & Diesel	24	42	12	0	24	102	3
RES (Wind, Solar, Biomass & Others)	105	151	267	5	0	528	14
Total	874	1446	848	609	54	3831	100

Share of RES in total generation (%)	11.99	10.43	31.46	0.84	0.41	13.77
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.25	16.56	49.80	21.00	35.80	30.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.102

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-May-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	1001	0.0	18.2	-18.2
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	767	0.0	12.7	-12.7
4	765 kV	SASARAM-FATEHPUR	1	62	328	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	457	0.0	7.5	-7.5
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	99	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	664	0.0	11.2	-11.2
9	400 kV	PATNA-BALIA	4	0	755	0.0	14.1	-14.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	372	0.0	6.3	-6.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	304	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	0	313	0.0	5.2	-5.2
13	220 kV	PUSAULI-SAHUPURI	1	47	22	0.0	0.5	-0.5
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-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.3	97.5	-97.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1080	0	13.2	0.0	13.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	922	147	10.0	0.0	10.0
3	765 kV	JHARSUGUDA-DURG	2	222	260	0.0	0.5	-0.5
4	400 kV	JHARSUGUDA-RAIGARH	4	103	201	0.0	0.6	-0.6
5	400 kV	RANCHI-SIPAT	2	256	51	2.3	0.0	2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	106	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	141	0	2.3	0.0	2.3
					ER-WR	27.8	2.6	25.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	287	0.0	6.1	-6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1976	0.0	28.7	-28.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2950	0.0	55.7	-55.7
4	400 kV	TALCHER-I/C	2	841	225	14.2	0.0	14.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	90.5	-90.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	487	0.0	7.9	-7.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	594	0.0	8.1	-8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	164	0.0	2.9	-2.9
					ER-NER	0.0	18.9	-18.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.1	-14.1
					NER-NR	0.0	14.1	-14.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2013	0.0	40.4	-40.4
2	HVDC	VINDHYACHAL B/B	-	0	54	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1914	0.0	37.0	-37.0
4	765 kV	GWALIOR-AGRA	2	0	2568	0.0	44.5	-44.5
5	765 kV	PHAGI-GWALIOR	2	0	1925	0.0	33.5	-33.5
6	765 kV	JABALPUR-ORAI	2	633	1049	0.0	35.3	-35.3
7	765 kV	GWALIOR-ORAI	1	668	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	1561	0.0	32.2	-32.2
9	765 kV	CHITORGARH-BANASKANTHA	2	1253	0	13.1	0.0	13.1
10	400 kV	ZERDA-KANKROLI	1	273	0	4.0	0.0	4.0
11	400 kV	ZERDA -BHINMAL	1	450	0	6.6	0.0	6.6
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	0	567	0.0	7.4	-7.4
14	220 kV	BHANPURA-RANPUR	1	0	156	0.0	2.8	-2.8
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
16	220 kV	MEHGAON-AURAIYA	1	95	0	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	59	20	0.9	0.0	0.9
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	58.5	237.0	-178.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	322	0.0	7.6	-7.6
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1226	1522	5.6	7.7	-2.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2056	0.0	28.4	-28.4
5	400 kV	KOLHAPUR-KUDGI	2	812	0	11.0	0.0	11.0
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	94	1.5	0.0	1.5
					WR-SR	18.1	43.7	-25.7

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

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)	585	390	511	12.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1045	877	955	22.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	331	262	265	6.4
	NER	132KV-GEYLEGPHU - SALAKATI	37	-3	-21	-0.5
	NER	132kV Motanga-Rangia	63	38	-50	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-59	0	-23	-0.6
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-124	-2	-4	-0.1
	ER	132KV-BIHAR - NEPAL	-99	0	-9	-0.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-918	-906	-912	-21.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-86	0	-70	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-86	0	-70	-1.7