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: 16th June 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 15.06.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-जून-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 15th June 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:** **16-Jun-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)	49034	47283	37117	20799	2975	157208
Peak Shortage (MW)	200	0	0	0	4	204
Energy Met (MU)	1264	1169	876	434	55	3799
Hydro Gen (MU)	336	58	79	119	24	616
Wind Gen (MU)	54	167	221	-	-	442
Solar Gen (MU)*	46.86	34.84	83.86	4.96	0.24	171
Energy Shortage (MU)	3.79	0.00	0.00	0.00	0.04	3.83
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59059	49934	40578	20918	3122	166857
Time Of Maximum Demand Met (From NLDC SCADA)	11:58	14:41	09:32	21:06	20:00	10:42

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	0.036	0.00	0.45	3.21	3.66	70.96	25.38

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	11272	0	243.2	162.5	-2.3	182	0.00
	Haryana	8524	0	175.8	135.0	-3.4	139	0.00
	Rajasthan	11646	0	238.4	83.5	-1.1	315	0.33
	Delhi	5771	0	113.2	99.1	-1.1	213	0.01
	UP	17998	0	369.9	158.8	-1.6	438	0.00
	Uttarakhand	1909	0	41.9	15.7	0.1	152	0.00
	HP	1464	0	30.1	-0.6	0.8	131	0.00
	J&K(UT) & Ladakh(UT)	2319	250	45.7	20.9	0.1	334	3.45
	Chandigarh	304	0	5.7	6.2	-0.5	11	0.00
WR	Chhattisgarh	3293	0	78.1	26.0	-0.5	212	0.00
	Gujarat	17624	0	381.5	148.7	2.8	658	0.00
	MP	8478	0	193.5	103.9	-2.4	620	0.00
	Maharashtra	20973	0	460.0	177.2	-0.2	1036	0.00
	Goa	518	0	11.1	8.6	1.9	45	0.00
	DD	321	0	7.1	6.6	0.5	37	0.00
	DNH	790	0	18.3	18.2	0.1	39	0.00
	AMNSIL	908	0	19.8	2.3	0.2	357	0.00
SR	Andhra Pradesh	8360	0	179.8	46.6	1.2	688	0.00
	Telangana	6695	0	141.8	59.5	-0.2	425	0.00
	Karnataka	8958	0	167.9	53.6	0.1	967	0.00
	Kerala	3082	0	62.2	34.2	-0.1	316	0.00
	Tamil Nadu	14033	0	316.4	135.3	0.1	543	0.00
	Puducherry	392	0	8.4	8.6	-0.2	33	0.00
ER	Bihar	5341	0	96.4	87.9	1.1	641	0.00
	DVC	3044	0	65.8	-37.9	-0.8	235	0.00
	Jharkhand	1407	0	25.8	23.0	-2.2	211	0.00
	Odisha	4564	0	91.2	29.4	-1.0	331	0.00
	West Bengal	7594	0	154.1	57.8	0.0	312	0.00
	Sikkim	78	0	1.2	1.3	-0.1	26	0.00
NER	Arunachal Pradesh	135	0	2.2	2.1	-0.1	48	0.01
	Assam	1967	0	35.8	30.1	0.8	157	0.00
	Manipur	201	2	2.7	2.5	0.2	28	0.01
	Meghalaya	305	0	5.3	1.4	0.0	46	0.00
	Mizoram	108	1	1.7	1.6	0.1	34	0.01
	Nagaland	146	1	2.4	2.6	-0.2	13	0.01
	Tripura	292	0	5.2	4.6	0.2	54	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.4	-7.4	-24.8
Day Peak (MW)	1869.0	-466.0	-1066.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.7	-185.3	9.6	-134.7	0.8	0.0
Actual(MU)	289.1	-174.6	15.1	-134.9	3.5	-1.8
O/D/U/D(MU)	-20.6	10.8	5.5	-0.2	2.8	-1.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6896	19968	8872	0	738	36474	41
State Sector	12078	20905	14058	4717	11	51769	59
Total	18974	40873	22930	4717	750	88243	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	456	1021	335	482	10	2305	59
Lignite	24	9	51	0	0	84	2
Hydro	336	58	79	119	24	616	16
Nuclear	30	32	66	0	0	128	3
Gas, Naptha & Diesel	28	39	13	0	23	103	3
RES (Wind, Solar, Biomass & Others)	119	202	330	5	0	655	17
Total	993	1361	873	606	57	3890	100

Share of RES in total generation (%)	11.94	14.83	37.77	0.81	0.42	16.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	48.84	21.44	54.30	20.44	42.62	35.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.084

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: 16-Jun-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	800	0.0	19.2	-19.2
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	782	0.0	13.2	-13.2
4	765 kV	SASARAM-FATEHPUR	1	89	301	0.0	3.6	-3.6
5	765 kV	GAYA-BALIA	1	0	498	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	123	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	670	0.0	11.5	-11.5
9	400 kV	PATNA-BALIA	4	0	1024	0.0	19.1	-19.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	330	0.0	4.1	-4.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	418	0.0	7.1	-7.1
12	400 kV	BIHARSHARIFF-VARANASI	2	11	261	0.0	3.6	-3.6
13	220 kV	PUSAULI-SAHUPURI	1	3	93	0.0	1.2	-1.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.2	0.0	0.2
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	0.2	103.8	-103.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1261	169	7.7	0.0	7.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1194	177	14.8	0.0	14.8
3	765 kV	JHARSUGUDA-DURG	2	167	175	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	97	334	0.0	2.2	-2.2
5	400 kV	RANCHI-SIPAT	2	333	74	3.8	0.0	3.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	105	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	152	0	1.7	0.0	1.7
					ER-WR	28.0	4.1	23.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	134	0.0	2.6	-2.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2673	0.0	44.6	-44.6
4	400 kV	TALCHER-I/C	2	201	620	1.3	0.0	1.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	86.8	-86.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	373	0.0	5.5	-5.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	35	470	0.0	5.9	-5.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	128	0.0	2.1	-2.1
					ER-NER	0.0	13.5	-13.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3026	0.0	56.4	-56.4
2	HVDC	VINDHYACHAL B/B	-	0	0	0.0	0.0	0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1263	0.0	31.5	-31.5
4	765 kV	GWALIOR-AGRA	2	0	2560	0.0	43.1	-43.1
5	765 kV	PHAGI-GWALIOR	2	0	1930	0.0	33.6	-33.6
6	765 kV	JABALPUR-ORAI	2	810	1034	0.0	33.9	-33.9
7	765 kV	GWALIOR-ORAI	1	731	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	1514	0.0	30.9	-30.9
9	765 kV	CHITORGARH-BANASKANTHA	2	1678	385	11.1	0.9	10.1
10	400 kV	ZERDA-KANKROLI	1	356	0	4.3	0.0	4.3
11	400 kV	ZERDA -BHINMAL	1	563	0	9.6	0.0	9.6
12	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.8	0.0	21.8
13	400 kV	RAPP-SHUJALPUR	2	61	564	0.0	6.1	-6.1
14	220 kV	BHANPURA-RANPUR	1	0	102	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	1	99	21	0.2	0.3	0.0
17	220 kV	MALANPUR-AURAIYA	1	66	32	0.6	0.1	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	59.6	239.6	-180.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	0	7.4	0.0	7.4
2	HVDC	RAIGARH-PUGALUR	2	578	0	11.6	0.0	11.6
3	765 kV	SOLAPUR-RAICHUR	2	2332	772	13.8	0.0	13.8
4	765 kV	WARDHA-NIZAMABAD	2	116	1750	0.0	21.8	-21.8
5	400 kV	KOLHAPUR-KUDGI	2	1229	0	16.2	0.0	16.2
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	80	1.6	0.0	1.6
					WR-SR	50.6	21.8	28.8

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)	657	0	504	12.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1022	1008	1017	24.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	277	0	246	5.9
	NER	132KV-GEYLEGPHU - SALAKATI	-47	16	-35	-0.8
	NER	132kV Motanga-Rangia	-70	21	-49	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.5
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-290	-4	-168	-4.0
	ER	132KV-BIHAR - NEPAL	-102	-1	-78	-1.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-931	-907	-911	-21.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-67	0	-61	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-68	0	-61	-1.5