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 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 29.06.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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:** **30-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)	66160	49850	41585	22498	2778	182871
Peak Shortage (MW)	1205	44	0	0	2	1251
Energy Met (MU)	1566	1149	1046	489	52	4302
Hydro Gen (MU)	344	57	115	122	20	658
Wind Gen (MU)	25	79	49	-	-	153
Solar Gen (MU)*	55.32	37.54	108.45	5.15	0.10	207
Energy Shortage (MU)	19.61	0.53	0.00	0.00	0.04	20.18
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70696	50401	49123	22826	2898	187964
Time Of Maximum Demand Met (From NLDC SCADA)	23:14	15:40	12:51	21:35	19:53	11:46

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	0.027	0.00	0.46	4.26	4.72	81.88	13.40

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	12695	1550	296.3	168.1	-0.1	143	13.22
	Haryana	11209	0	248.6	179.3	1.8	294	0.79
	Rajasthan	12672	0	274.6	82.6	3.0	612	0.00
	Delhi	6522	0	132.4	118.9	-0.9	221	0.00
	UP	23424	0	476.8	196.4	3.4	525	2.15
	Uttarakhand	2145	0	48.1	22.2	1.3	242	0.00
	HP	1488	0	33.4	1.4	0.7	126	0.00
	J&K(UT) & Ladakh(UT)	2356	250	48.4	22.6	1.1	327	3.45
	Chandigarh	370	0	7.2	7.1	0.1	39	0.00
WR	Chhattisgarh	4066	44	96.0	47.7	1.0	308	0.53
	Gujarat	16268	0	347.3	118.3	1.5	793	0.00
	MP	9233	0	207.4	115.1	-0.2	430	0.00
	Maharashtra	19847	0	442.6	129.5	-0.5	662	0.00
	Goa	575	0	11.9	11.0	0.3	32	0.00
	DD	333	0	7.3	7.0	0.3	26	0.00
	DNH	818	0	18.7	18.3	0.4	69	0.00
	AMNSIL	820	0	18.1	3.9	0.4	316	0.00
SR	Andhra Pradesh	9657	0	195.3	77.2	5.0	1255	0.00
	Telangana	10940	0	225.8	76.6	-0.7	581	0.00
	Karnataka	10660	0	199.4	53.3	2.5	804	0.00
	Kerala	3483	0	71.7	42.2	0.1	209	0.00
	Tamil Nadu	16040	0	344.9	206.4	2.0	861	0.00
	Puducherry	403	0	8.5	8.5	0.0	31	0.00
ER	Bihar	6212	0	114.1	104.1	0.9	443	0.00
	DVC	3178	0	67.3	-50.2	-1.2	246	0.00
	Jharkhand	1459	0	27.4	22.6	-1.8	276	0.00
	Odisha	4947	0	110.7	43.0	1.0	394	0.00
	West Bengal	8337	0	168.3	37.6	1.5	533	0.00
	Sikkim	85	0	1.3	1.4	-0.1	41	0.00
NER	Arunachal Pradesh	121	1	2.3	1.9	0.3	23	0.01
	Assam	1801	0	33.0	28.6	0.1	101	0.00
	Manipur	188	1	2.6	2.5	0.1	24	0.01
	Meghalaya	299	0	5.5	1.8	-0.1	70	0.00
	Mizoram	100	1	1.6	1.6	-0.1	17	0.01
	Nagaland	141	1	2.5	2.6	-0.1	8	0.01
	Tripura	293	0	4.4	3.9	-0.1	84	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	35.1	-7.8	-24.4
Day Peak (MW)	1681.0	-518.2	-1041.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	355.7	-274.3	67.5	-147.6	-1.4	0.0
Actual(MU)	327.7	-255.5	71.3	-142.5	-2.6	-1.5
O/D/U/D(MU)	-28.0	18.9	3.7	5.1	-1.2	-1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4863	19367	7912	870	888	33900	48
State Sector	7170	17814	8365	3633	11	36993	52
Total	12033	37181	16277	4503	900	70894	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	719	1184	580	541	16	3039	69
Lignite	30	7	55	0	0	92	2
Hydro	344	57	115	122	20	658	15
Nuclear	30	32	43	0	0	105	2
Gas, Naptha & Diesel	25	52	10	0	24	111	3
RES (Wind, Solar, Biomass & Others)	98	117	185	5	0	405	9
Total	1247	1448	988	668	60	4410	100

Share of RES in total generation (%)	7.86	8.07	18.68	0.77	0.17	9.17
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.87	14.19	34.69	19.05	33.87	26.48

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.081

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-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	852	0.0	20.7	-20.7
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	713	0.0	13.2	-13.2
4	765 kV	SASARAM-FATEHPUR	1	0	283	0.0	3.9	-3.9
5	765 kV	GAYA-BALIA	1	0	617	0.0	11.2	-11.2
6	400 kV	PUSAULI-VARANASI	1	0	212	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	85	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	809	0.0	15.1	-15.1
9	400 kV	PATNA-BALIA	4	0	1115	0.0	21.8	-21.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	555	0.0	10.8	-10.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	486	0.0	8.8	-8.8
12	400 kV	BIHARSHARIFF-VARANASI	2	0	267	0.0	5.0	-5.0
13	220 kV	PUSAULI-SAHUPURI	1	0	176	0.0	2.0	-2.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	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	124.3	-124.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	757	141	5.3	0.0	5.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1174	153	13.6	0.0	13.6
3	765 kV	JHARSUGUDA-DURG	2	120	138	0.0	0.2	-0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	192	55	1.2	0.0	1.2
5	400 kV	RANCHI-SIPAT	2	310	47	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	111	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	153	0	2.7	0.0	2.7
					ER-WR	26.0	1.6	24.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1188	0.0	28.8	-28.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2514	0.0	38.6	-38.6
4	400 kV	TALCHER-I/C	2	619	0	12.0	0.0	12.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	77.4	-77.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	321	0.0	4.5	-4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	1	374	0.0	4.7	-4.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	95	0.0	1.6	-1.6
					ER-NER	0.0	10.8	-10.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.5	-14.5
					NER-NR	0.0	14.5	-14.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3527	0.0	50.5	-50.5
2	HVDC	VINDHYACHAL B/B	-	0	101	2.5	2.3	0.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1453	0.0	28.7	-28.7
4	765 kV	GWALIOR-AGRA	2	0	2672	0.0	46.2	-46.2
5	765 kV	PHAGI-GWALIOR	2	0	1640	0.0	35.2	-35.2
6	765 kV	JABALPUR-ORAI	2	750	1108	0.0	39.3	-39.3
7	765 kV	GWALIOR-ORAI	1	682	0	13.3	0.0	13.3
8	765 kV	SATNA-ORAI	1	0	1482	0.0	29.9	-29.9
9	765 kV	CHITORGARH-BANASKANTHA	2	642	625	0.8	0.0	0.8
10	400 kV	ZERDA-KANKROLI	1	162	46	1.6	0.0	1.6
11	400 kV	ZERDA -BHINMAL	1	339	14	4.5	0.0	4.5
12	400 kV	VINDHYACHAL -RIHAND	1	959	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	510	0.0	7.8	-7.8
14	220 kV	BHANPURA-RANPUR	1	0	101	0.0	1.5	-1.5
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
16	220 kV	MEHGAON-AURAIYA	1	115	0	0.5	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	77	7	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	46.6	242.2	-195.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	334	447	7.3	0.0	7.3
2	HVDC	RAIGARH-PUGALUR	2	0	3305	0.0	19.7	-19.7
3	765 kV	SOLAPUR-RAICHUR	2	732	1909	0.0	5.8	-5.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2599	0.0	34.5	-34.5
5	400 kV	KOLHAPUR-KUDGI	2	986	0	15.9	0.0	15.9
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	76	1.4	0.0	1.4
					WR-SR	24.6	60.0	-35.4

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	614	0	588	14.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	854	661	686	16.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	274	0	127	3.1
	NER	132kV GELEPHU-SALAKATI	26	18	23	0.5
	NER	132kV MOTANGA-RANGIA	35	33	38	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	-225	-1	-100	-2.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-227	0	-179	-4.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-917	0	-907	-21.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-124	0	-109	-2.6