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:01st Oct 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 30.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-सितंबर-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 30th September 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:** **01-Oct-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)	54771	48686	42523	20736	3044	169760
Peak Shortage (MW)	1811	48	0	0	0	1859
Energy Met (MU)	1264	1102	1000	429	58	3853
Hydro Gen (MU)	276	70	167	120	25	659
Wind Gen (MU)	9	117	62	-	-	188
Solar Gen (MU)*	54.79	28.72	92.33	4.04	0.26	180
Energy Shortage (MU)	8.65	0.48	0.82	2.21	0.00	12.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56539	50047	47198	20981	3137	172175
Time Of Maximum Demand Met (From NLDC SCADA)	20:43	18:55	10:55	19:32	17:59	19:06

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	0.046	0.09	1.76	8.67	10.52	73.72	15.76

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	10118	0	218.7	133.2	-0.4	71	0.00
	Haryana	8488	0	187.4	140.3	0.5	204	0.59
	Rajasthan	9620	0	211.0	58.9	2.4	360	1.02
	Delhi	5174	0	110.6	99.3	-0.1	137	0.00
	UP	20098	980	407.6	148.9	-0.6	353	3.04
	Uttarakhand	1930	0	42.6	14.1	1.4	166	0.55
	HP	1491	0	31.3	2.6	-0.3	80	0.00
	J&K(UT) & Ladakh(UT)	2392	250	49.0	26.2	3.5	392	3.45
	Chandigarh	258	0	5.4	5.8	-0.4	5	0.00
WR	Chhattisgarh	3737	0	89.2	39.9	1.2	304	0.00
	Gujarat	13698	0	297.1	120.7	1.9	992	0.48
	MP	10022	0	219.9	130.2	0.6	478	0.00
	Maharashtra	20217	0	437.2	153.4	-0.6	691	0.00
	Goa	609	0	12.6	11.6	0.3	37	0.00
	DD	337	0	7.5	7.0	0.5	93	0.00
	DNH	844	0	19.7	19.7	0.0	49	0.00
	AMNSIL	884	0	18.6	8.5	0.2	0	0.00
SR	Andhra Pradesh	8889	0	188.7	82.8	1.6	839	0.82
	Telangana	9173	0	190.6	25.7	-0.5	449	0.00
	Karnataka	11029	0	208.7	54.8	0.1	763	0.00
	Kerala	3675	0	74.2	47.7	-0.4	269	0.00
	Tamil Nadu	15146	0	328.8	180.3	1.6	636	0.00
	Puducherry	425	0	8.9	9.0	-0.1	38	0.00
ER	Bihar	5734	0	91.9	92.8	-1.0	621	1.84
	DVC	2611	0	55.4	-33.4	5.0	614	0.30
	Jharkhand	1446	0	24.0	18.7	-2.9	217	0.08
	Odisha	5152	0	110.1	33.5	0.1	296	0.00
	West Bengal	7925	0	146.2	31.1	2.8	710	0.00
	Sikkim	100	0	1.4	1.4	0.0	31	0.00
NER	Arunachal Pradesh	130	0	2.4	2.3	-0.1	59	0.00
	Assam	2038	0	38.5	30.1	0.7	98	0.00
	Manipur	175	0	2.6	2.6	0.0	24	0.00
	Meghalaya	322	0	5.7	2.5	0.0	36	0.00
	Mizoram	106	0	1.5	1.1	0.0	30	0.00
	Nagaland	107	0	2.5	2.0	-0.1	0	0.00
	Tripura	311	0	5.2	5.0	-0.2	101	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	37.0	0.9	-20.4
Day Peak (MW)	1844.0	94.6	-875.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	241.4	-147.6	49.7	-142.9	-0.6	0.0
Actual(MU)	220.4	-139.1	55.9	-133.6	-2.6	1.0
O/D/U/D(MU)	-21.0	8.5	6.2	9.3	-2.1	1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3607	18687	8152	2730	409	33585	43
State Sector	9110	19935	9528	5775	32	44380	57
Total	12717	38621	17680	8505	441	77964	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	609	965	481	465	11	2531	65
Lignite	27	11	44	0	0	81	2
Hydro	276	70	167	120	25	660	17
Nuclear	31	33	65	0	0	129	3
Gas, Naptha & Diesel	33	29	11	0	30	102	3
RES (Wind, Solar, Biomass & Others)	78	146	189	4	0	418	11
Total	1053	1254	958	589	66	3920	100

Share of RES in total generation (%)	7.39	11.65	19.79	0.68	0.39	10.66
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.54	19.87	44.04	21.10	38.84	30.76

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.071

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: 01-Oct-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	1501	0.0	29.1	-29.1
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	271	291	0.0	0.6	-0.6
4	765 kV	SASARAM-FATEHPUR	1	124	127	0.0	0.0	0.0
5	765 kV	GAYA-BALIA	1	0	559	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	185	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	116	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	528	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	4	0	842	0.0	15.8	-15.8
10	400 kV	BIHARSHARIFF-BALIA	2	48	283	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	293	0.0	5.1	-5.1
12	400 kV	BIHARSHARIFF-VARANASI	2	112	111	0.0	0.1	-0.1
13	220 kV	PUSAULI-SAHUPURI	1	11	67	0.0	0.9	-0.9
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	86.3	-86.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	371	633	0.0	1.9	-1.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	861	475	6.8	0.0	6.8
3	765 kV	JHARSUGUDA-DURG	2	37	280	0.0	3.2	-3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	14	348	0.0	3.9	-3.9
5	400 kV	RANCHI-SIPAT	2	232	122	1.4	0.0	1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	162	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	120	0	2.0	0.0	2.0
					ER-WR	10.1	11.5	-1.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	318	508	1.0	0.0	1.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1497	0.0	31.6	-31.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2829	0.0	48.5	-48.5
4	400 kV	TALCHER-I/C	2	629	129	1.9	0.0	1.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	1.0	80.1	-79.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	349	0.0	0.0	0.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	28	395	0.0	3.4	-3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	128	0.0	1.7	-1.7
					ER-NER	0.0	5.1	-5.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	15.7	-15.7
					NER-NR	0.0	15.7	-15.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1715	0.0	28.6	-28.6
2	HVDC	VINDHYACHAL B/B	-	227	102	0.8	0.0	0.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	493	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	1449	0.0	22.4	-22.4
5	765 kV	GWALIOR-PHAGI	2	0	1269	0.0	23.1	-23.1
6	765 kV	JABALPUR-ORAI	2	0	679	0.0	24.7	-24.7
7	765 kV	GWALIOR-ORAI	1	614	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	855	0.0	18.1	-18.1
9	765 kV	BANASKANTHA-CHITORGARH	2	566	248	3.1	0.0	3.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2542	0.0	47.8	-47.8
11	400 kV	ZERDA-KANKROLI	1	197	0	2.2	0.0	2.2
12	400 kV	ZERDA -BHINMAL	1	386	0	4.5	0.0	4.5
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	150	228	0.0	0.8	-0.8
15	220 kV	BHANPURA-RANPUR	1	48	21	0.3	0.1	0.2
16	220 kV	BHANPURA-MORAK	1	0	30	1.2	0.0	1.2
17	220 kV	MEHGAON-AURAIYA	1	170	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	128	0	2.5	0.0	2.5
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	48.8	177.7	-128.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	622	0	11.1	0.0	11.1
2	HVDC	RAIGARH-PUGALUR	2	1446	0	17.8	0.0	17.8
3	765 kV	SOLAPUR-RAICHUR	2	24	2356	0.0	24.3	-24.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2202	0.0	32.1	-32.1
5	400 kV	KOLHAPUR-KUDGI	2	905	0	14.3	0.0	14.3
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	1.5	0.0	1.5
					WR-SR	44.6	56.4	-11.7

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	692	0	474	11.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	769	0	746	17.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	285	0	258	6.2
	NER	132kV GELEPHU-SALAKATI	37	13	19	0.5
	NER	132kV MOTANGA-RANGIA	60	0	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	79	0	4	0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	84	0	36	0.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-726	-727	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-122	-2.9