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: 13th September 2022

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 12.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-सितंबर-2022 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 12th Sep 2022, 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:** **13-Sep-2022**

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)	70615	50162	41671	23092	3122	188662
Peak Shortage (MW)	59	0	0	0	0	59
Energy Met (MU)	1615	1177	881	498	57	4228
Hydro Gen (MU)	366	111	177	152	29	835
Wind Gen (MU)	9	61	239	-	-	309
Solar Gen (MU)*	94.84	34.48	88.59	4.63	0.63	223
Energy Shortage (MU)	7.91	0.05	0.00	1.06	0.06	9.08
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72472	52324	41731	23394	3168	190764
Time Of Maximum Demand Met (From NLDC SCADA)	22:37	18:53	19:02	19:27	18:45	19:31

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	0.050	0.41	2.26	7.58	10.24	76.66	13.10

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	13321	0	295.7	181.3	-1.2	151	0.00
	Haryana	11244	0	240.8	166.7	0.1	181	0.00
	Rajasthan	14379	0	302.7	109.8	1.6	390	0.91
	Delhi	6444	0	132.5	121.2	-1.2	184	0.00
	UP	24663	0	508.1	252.3	-2.8	378	6.02
	Uttarakhand	2290	0	48.0	23.6	0.3	150	0.11
	HP	1606	0	32.9	-2.7	0.3	93	0.69
	J&K(UT) & Ladakh(UT)	2593	0	48.1	25.0	-1.4	183	0.18
	Chandigarh	344	0	6.7	6.9	-0.2	19	0.00
WR	Chhattisgarh	4215	0	98.3	54.5	0.1	505	0.00
	Gujarat	15957	0	339.8	207.4	-4.7	642	0.00
	MP	10355	0	233.4	121.1	0.0	407	0.00
	Maharashtra	20851	0	453.1	168.2	-4.8	702	0.00
	Goa	540	0	11.3	11.3	0.0	67	0.05
	DNHDDPDCL	1216	0	28.0	27.9	0.1	46	0.00
	AMNSIL	638	0	13.5	8.2	-0.8	222	0.00
SR	Andhra Pradesh	8286	0	180.5	13.6	-2.9	737	0.00
	Telangana	8126	0	157.1	24.0	-0.7	539	0.00
	Karnataka	7800	0	150.0	14.4	-2.7	818	0.00
	Kerala	3609	0	72.8	29.7	-1.4	318	0.00
	Tamil Nadu	15313	0	311.4	123.7	-3.7	759	0.00
	Puducherry	410	0	8.9	8.5	-0.3	42	0.00
ER	Bihar	5936	15	112.6	105.8	-3.0	204	0.81
	DVC	3366	0	73.5	-25.9	0.3	275	0.00
	Jharkhand	1522	149	29.2	19.6	-1.5	145	0.25
	Odisha	5866	0	126.0	40.0	-1.6	340	0.00
	West Bengal	7595	0	155.5	36.8	-0.1	303	0.00
	Sikkim	108	0	1.6	1.6	0.0	20	0.00
NER	Arunachal Pradesh	144	0	2.4	2.2	0.2	42	0.00
	Assam	2099	0	37.3	30.6	-0.1	139	0.00
	Manipur	192	6	2.6	2.6	0.1	39	0.06
	Meghalaya	312	0	5.5	1.5	-0.1	41	0.00
	Mizoram	100	0	1.4	0.7	-0.3	4	0.00
	Nagaland	149	0	2.4	2.1	-0.1	10	0.00
	Tripura	269	0	5.0	4.6	-0.6	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.6	8.2	-24.6
Day Peak (MW)	2018.0	388.0	-1049.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	382.8	-118.5	-112.5	-143.6	-8.2	0.0
Actual(MU)	390.9	-101.6	-130.7	-158.5	-10.5	-10.5
O/D/U/D(MU)	8.1	16.9	-18.2	-14.9	-2.3	-10.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3872	13621	6968	2670	334	27464	42
State Sector	6065	17723	10727	3150	178	37842	58
Total	9937	31344	17695	5820	511	65306	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	761	1063	391	530	15	2760	62
Lignite	30	7	54	0	0	91	2
Hydro	357	111	177	152	29	826	19
Nuclear	28	40	42	0	0	110	2
Gas, Naptha & Diesel	18	3	9	0	29	58	1
RES (Wind, Solar, Biomass & Others)	121	96	372	5	1	595	13
Total	1316	1319	1045	686	74	4440	100

Share of RES in total generation (%)	9.21	7.29	35.65	0.67	0.86	13.40
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.46	18.72	56.63	22.76	40.26	34.47

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.058

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: 13-Sep-2022

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	1502	0.0	35.5	-35.5
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.5	-8.5
3	765 kV	GAYA-VARANASI	2	99	761	0.0	8.3	-8.3
4	765 kV	SASARAM-FATEHPUR	1	0	537	0.0	7.1	-7.1
5	765 kV	GAYA-BALIA	1	0	779	0.0	12.9	-12.9
6	400 kV	PUSAULI-VARANASI	1	0	202	0.0	4.0	-4.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	221	0.0	4.2	-4.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1207	0.0	22.2	-22.2
9	400 kV	PATNA-BALIA	2	0	687	0.0	12.0	-12.0
10	400 kV	NAUBATPUR-BALIA	2	0	737	0.0	12.7	-12.7
11	400 kV	BIHARSHARIFF-BALIA	2	0	699	0.0	9.5	-9.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	573	0.0	10.5	-10.5
13	400 kV	BIHARSHARIFF-VARANASI	2	10	360	0.0	4.5	-4.5
14	220 kV	SAHUPURI-KARAMNASA	1	5	140	0.0	2.3	-2.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	154.1	-153.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	647	0.0	1.2	-1.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1117	36	14.8	0.0	14.8
3	765 kV	JHARSUGUDA-DURG	2	0	335	0.0	3.9	-3.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	522	0.0	6.3	-6.3
5	400 kV	RANCHI-SIPAT	2	221	127	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	137	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	79	62	0.3	0.0	0.3
					ER-WR	17.0	13.6	3.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	697	0	15.6	0.0	15.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1489	0.0	25.1	-25.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2361	0.0	36.2	-36.2
4	400 kV	TALCHER-I/C	2	1484	189	10.5	0.0	10.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	15.6	61.3	-45.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	357	0.0	4.5	-4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	267	267	0.2	0.0	0.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	101	0.0	1.2	-1.2
					ER-NER	0.2	5.7	-5.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.8	-16.8
					NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5035	0.0	82.7	-82.7
2	HVDC	VINDHYACHAL B/B	-	448	0	8.3	0.0	8.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1015	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	1577	0.1	24.6	-24.5
5	765 kV	GWALIOR-PHAGI	2	0	2095	0.0	31.6	-31.6
6	765 kV	JABALPUR-ORAI	2	0	1216	0.0	37.3	-37.3
7	765 kV	GWALIOR-ORAI	1	541	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	1	0	1156	0.0	22.7	-22.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1064	386	11.0	0.3	10.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3241	0.0	57.1	-57.1
11	400 kV	ZERDA-KANKROLI	1	208	81	1.6	0.0	1.6
12	400 kV	ZERDA -BHINMAL	1	413	160	2.7	0.0	2.7
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	0	765	0.0	9.0	-9.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	76	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	63	0	1.5	0.0	1.5
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	56.7	290.8	-234.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2876	0	69.4	0.0	69.4
3	765 kV	SOLAPUR-RAICHUR	2	2051	793	22.8	1.1	21.7
4	765 kV	WARDHA-NIZAMABAD	2	477	1543	1.4	11.6	-10.2
5	400 kV	KOLHAPUR-KUDGI	2	1792	0	29.3	0.0	29.3
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	91	1.7	0.0	1.7
					WR-SR	148.6	12.7	135.9

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)	705	0	681	16.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1069	0	1025	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	219	0	198	4.8
	NER	132kV GELEPHU-SALAKATI	-16	-10	-14	-0.3
	NER	132kV MOTANGA-RANGIA	-41	-19	-33	-0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-39	0	-13	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	427	279	353	8.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-926	-906	-916	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-123	0	-108	-2.6