



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड कंट्रोलर ऑफ इंडिया 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: 14.07.2024

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 13.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-जुलाई-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 13.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 14-Jul-2024

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)	77483	58307	45057	27654	3417	211918
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1712	1367	1092	602	66	4839
Hydro Gen (MU)	377	27	56	71	38	568
Wind Gen (MU)	31	234	250	-	-	515
Solar Gen (MU)*	148.56	74.31	90.88	2.24	1.14	317
Energy Shortage (MU)	0.08	0.00	0.00	0.00	0.00	0.08
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	79105	59530	49609	29387	3464	213329
Time Of Maximum Demand Met	22:29	19:43	15:54	23:29	20:41	22:22

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	0.052	0.00	0.05	7.20	7.24	70.95	21.80

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	15121	0	325.8	212.4	-0.7	263	0.00
	Haryana	12784	0	268.1	201.8	-1.3	209	0.00
	Rajasthan	13558	0	296.3	96.1	1.1	500	0.00
	Delhi	6470	0	131.1	120.2	-1.1	142	0.00
	UP	27244	0	538.0	260.9	-0.4	809	0.00
	Uttarakhand	2459	0	51.5	27.0	0.1	146	0.08
	HP	1841	0	38.8	4.2	0.4	104	0.00
	J&K(UT) & Ladakh(UT)	2560	0	51.3	30.0	-4.9	95	0.00
	Chandigarh	356	0	7.1	7.5	-0.3	28	0.00
	Railways NR ISTS	204	0	4.3	3.9	0.4	58	0.00
WR	Chhattisgarh	5573	0	122.8	72.8	-1.8	269	0.00
	Gujarat	18694	0	416.0	108.3	-7.9	630	0.00
	MP	11464	0	255.1	136.3	-1.3	860	0.00
	Maharashtra	22409	0	500.3	147.4	-5.1	751	0.00
	Goa	617	0	12.7	12.3	0.1	45	0.00
	DNHDDPDCL	1302	0	29.3	29.7	-0.4	91	0.00
	AMNSIL	821	0	18.2	6.3	0.2	312	0.00
	BALCO	524	0	12.5	12.6	-0.1	8	0.00
	Andhra Pradesh	9112	0	200.0	31.9	-4.5	496	0.00
	Telangana	11835	0	234.9	148.1	0.2	1121	0.00
SR	Karnataka	11860	0	222.4	32.2	-4.4	316	0.00
	Kerala	3751	0	76.7	51.0	1.2	403	0.00
	Tamil Nadu	16462	0	347.6	151.5	-6.3	905	0.00
	Puducherry	465	0	10.4	10.1	-0.4	18	0.00
	Bihar	6754	0	140.6	129.1	0.1	274	0.00
ER	DVC	3444	0	73.8	-33.6	-1.1	221	0.00
	Jharkhand	2217	0	44.8	31.7	1.1	195	0.00
	Odisha	5816	0	118.4	42.3	-1.2	512	0.00
	West Bengal	11127	0	223.3	84.1	-0.5	390	0.00
	Sikkim	74	0	1.2	1.5	-0.3	31	0.00
	Railways ER ISTS	17	0	0.1	0.2	0.0	4	0.00
	Arunachal Pradesh	166	0	2.9	2.4	0.1	95	0.00
NER	Assam	2269	0	44.7	35.2	1.1	285	0.00
	Manipur	178	0	3.0	2.9	0.0	64	0.00
	Meghalaya	312	0	5.9	-0.8	-0.1	59	0.00
	Mizoram	127	0	2.2	0.8	-0.1	6	0.00
	Nagaland	160	0	3.3	2.8	0.0	16	0.00
	Tripura	329	0	3.7	5.2	-2.1	52	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	39.2	17.9	-24.3	-27.4
Day Peak (MW)	2119.3	858.1	-1035.0	-1370.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	388.8	-347.6	24.0	-64.8	-0.4	24.0
Actual(MU)	384.8	-343.8	19.6	-64.1	-2.7	13.3
O/D/U/D(MU)	-3.9	3.8	-4.4	0.7	-2.3	-10.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3157	13301	6138	6201	697	29493	56
State Sector	4806	9850	7163	1324	119	23261	44
Total	7963	23150	13301	7525	816	52754	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	791	1406	590	650	13	3451	66
Lignite	26	14	47	0	0	87	2
Hydro	377	27	56	71	38	568	11
Nuclear	30	47	76	0	0	153	3
Gas, Naptha & Diesel	16	28	5	0	22	71	1
RES (Wind, Solar, Biomass & Others)	186	309	368	4	1	869	17
Total	1426	1832	1141	725	75	5199	100

Share of RES in total generation (%)	10.10	16.89	32.23	0.49	1.53	15.94
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	39.56	20.96	43.76	10.29	52.13	29.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.080

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211665	14:59	0
Non-Solar hr	213329	22:22	40

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 07:00 to 17:00hrs and rest are Non-Solar Hours

*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: 14-Jul-2024

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	353	0.0	8.2	-8.2
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	809	510	0.0	0.1	-0.1
4	765 kV	SASARAM-FATEHPUR	1	246	294	0.0	2.1	-2.1
5	765 kV	GAYA-BALIA	1	0	584	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	0	90	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	58	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	704	0.0	10.7	-10.7
9	400 kV	PATNA-BALIA	2	254	539	0.0	6.2	-6.2
10	400 kV	NAUBATPUR-BALIA	2	179	147	0.0	1.7	-1.7
11	400 kV	BIHARSHARIFF-BALIA	2	375	64	2.3	0.0	2.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	384	0.0	5.8	-5.8
13	400 kV	BIHARSHARIFF-VARANASI	2	205	168	0.0	1.2	-1.2
14	220 kV	SAHUPURI-KARMANASA	1	68	28	0.0	0.3	-0.3
15	132 kV	NAGAR INTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						2.8	48.9	-46.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	794	1203	0.0	4.2	-4.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2880	97	39.5	0.0	39.5
3	765 kV	JHARSUGUDA-DURG	2	141	225	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	414	268	1.0	0.0	1.0
5	400 kV	RANCHI-SIPAT	2	798	42	10.2	0.0	10.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	218	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	0	135	0.0	1.2	-1.2
ER-WR						50.7	9.3	41.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	108	113	0.0	0.3	-0.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1993	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2099	0.0	27.5	-27.5
4	400 kV	TALCHER-I/C	2	0	1254	0.0	19.0	-19.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	75.9	-75.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAN	2	72	285	0.0	3.6	-3.6
2	400 kV	ALIPURDUAR-BONGAIGAN	2	1	499	0.0	7.6	-7.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	106	0.0	1.7	-1.7
ER-NER						0.0	12.9	-12.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARALI-AGRA	2	0	704	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4025	0.0	67.0	-67.0
2	HVDC	VINDHYACHAL B/B	-	94	508	2.2	1.1	1.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2357	0.0	53.2	-53.2
4	765 kV	GWALIOR-AGRA	2	0	2799	0.0	45.6	-45.6
5	765 kV	GWALIOR-PHAGI	2	743	1605	2.2	16.8	-14.6
6	765 kV	JABALPUR-ORAI	2	0	1389	0.0	41.8	-41.8
7	765 kV	GWALIOR-ORAI	1	629	48	9.0	0.0	9.0
8	765 kV	SATNA-ORAI	1	0	1088	0.0	21.5	-21.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	137	2329	0.0	28.6	-28.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3799	0.0	68.8	-68.8
11	400 kV	ZERDA-KANKROLI	1	14	355	0.0	2.7	-2.7
12	400 kV	ZERDA-BHINMAL	1	76	244	0.1	2.7	-2.6
13	400 kV	VINDHYACHAL-RIHAND	1	971	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUALPUR	2	209	664	0.8	5.3	-4.4
15	400 kV	NEEMUCH-Chittoorgarh	2	227	588	1.0	4.1	-3.1
16	220 kV	BHANUPURA-RANPUR	1	0	172	0.0	3.5	-3.5
17	220 kV	BHANUPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	82	27	0.4	0.1	0.3
19	220 kV	MALANPUR-AURAIYA	1	57	41	0.2	0.3	-0.2
20	132 kV	GWALIOR-SAWALMADHOPUR	1	0	0	0.0	0.0	0.0
21	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						37.3	365.1	-327.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI/B	-	501	0	12.0	0.0	12.0
2	HVDC	RAIGARH-PUGALUR	2	0	1103	0.0	20.1	-20.1
3	765 kV	SOLAPUR-RAICHUR	2	2193	341	29.3	0.4	28.9
4	765 kV	WARDHA-NIZAMABAD	2	357	2352	0.6	20.1	-19.5
5	765 kV	WARORA-WARANGAL(NEW)	2	507	2173	1.5	16.2	-14.7
6	400 kV	KOLHAPUR-KUDGI	2	2062	0	36.8	0.0	36.8
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	97	1.7	0.0	1.7
WR-SR						81.9	56.7	25.2

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 Lc. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	763	0	686	16.46
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	966	851	868	20.83
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	216	0	-6	-0.15
	NER	132kV GELEPHU-SALAKATI	42	29	36	0.86
	NER	132kV MOTANGA-RANGIA	64	35	51	1.21
NEPAL	NR	NEPAL IMPORT (FROM UP)	-12	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	68	0	55	1.32
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	790	466	693	16.62
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-864	-930	-22.33
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1370	-1003	-1143	-27.43
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-94	0	-82	-1.96

