



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 17th July 2019

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
- मुख्य महाप्रबंधक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतेिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Chief General Manager, 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 16.07.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-जुलाई-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 16th July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

17-Jul-19

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	49017	49337	41780	20677	2632	163443
Peak Shortage (MW)	632	0	20	0	199	851
Energy Met (MU)	1106	1173	952	473	46	3749
Hydro Gen (MU)	347	18	51	112	30	558
Wind Gen (MU)	67	159	143	-----	-----	369
Solar Gen (MU)*	17.64	21.65	79.51	2.27	0.05	121
Energy Shortage (MU)	9.8	0.0	0.2	0.0	2.9	12.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	52221 22:38	52014 14:43	42647 19:29	22370 00:04	2631 19:52	168969 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	0.043	0.00	0.00	2.73	2.73	68.11	29.16

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	6250	0	133.7	103.4	-9.5	80	0.0
	Haryana	7610	0	157.5	127.5	-1.8	242	0.0
	Rajasthan	11904	0	264.3	66.2	-0.6	499	0.0
	Delhi	5001	0	108.0	89.8	-1.1	134	0.0
	UP	17652	180	331.6	146.3	1.5	747	0.0
	Uttarakhand	1701	0	36.5	14.5	0.5	306	0.0
	HP	1372	0	28.3	-2.5	-0.8	43	0.0
	J&K	2044	511	41.3	18.8	0.9	271	9.8
WR	Chandigarh	205	0	4.3	5.3	-1.0	-7	0.0
	Chhattisgarh	4632	0	105.6	47.6	1.2	356	0.0
	Gujarat	16427	0	368.8	80.1	1.4	604	0.0
	MP	9353	0	209.7	99.7	0.0	528	0.0
	Maharashtra	19703	0	444.6	119.7	-0.2	420	0.0
	Goa	541	0	11.4	11.0	-0.2	35	0.0
	DD	340	0	7.7	7.1	0.6	52	0.0
	DNH	809	0	18.9	19.1	-0.2	57	0.0
SR	Essar steel	352	0	6.2	5.7	0.6	362	0.0
	Andhra Pradesh	8408	0	178.1	23.1	3.6	773	0.0
	Telangana	8392	0	182.5	77.1	1.1	642	0.0
	Karnataka	10402	0	201.1	59.5	3.4	879	0.0
	Kerala	3562	0	70.0	59.2	3.0	477	0.2
	Tamil Nadu	14245	0	312.7	122.6	3.6	923	0.0
	Pondy	406	0	8.2	8.3	-0.1	36	0.0
	ER	Bihar	5065	0	95.7	92.0	-0.2	350
DVC		2960	0	66.4	-26.2	-1.1	285	0.0
Jharkhand		1322	0	26.5	17.6	-0.6	185	0.0
Odisha		4575	0	103.0	48.4	1.0	402	0.0
West Bengal		8732	0	180.8	83.3	2.6	445	0.0
NER	Sikkim	101	0	0.5	1.2	-0.7	20	0.0
	Arunachal Pradesh	118	2	2.4	2.5	-0.1	1	0.0
	Assam	1616	100	27.3	20.4	1.5	186	2.8
	Manipur	160	2	2.4	2.4	0.1	25	0.0
	Meghalaya	310	0	5.3	-1.1	-0.2	29	0.0
	Mizoram	90	1	1.7	1.3	0.3	26	0.0
	Nagaland	141	2	2.3	2.2	0.0	33	0.0
	Tripura	267	4	4.2	3.8	-0.3	72	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	42.5	-2.4	-24.1
Day peak (MW)	1890.2	-240.7	-1102.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	195.3	-199.7	29.5	-4.3	-20.6	0.3
Actual(MU)	142.4	-206.3	71.8	-2.9	-18.2	-13.1
O/D/U/D(MU)	-52.9	-6.6	42.3	1.4	2.4	-13.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4209	16676	9022	2940	50	32897
State Sector	12130	14670	7610	4780	56	39246
Total	16339	31346	16632	7720	106	72143

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	424	1096	473	394	10	2397
Lignite	19	10	34	0	0	63
Hydro	347	18	51	112	30	558
Nuclear	27	30	58	0	0	116
Gas, Naptha & Diesel	29	44	12	0	29	114
RES (Wind, Solar, Biomass & Others)	99	185	253	2	0	540
Total	945	1384	882	509	69	3788

Share of RES in total generation (%)	10.47	13.40	28.70	0.45	0.07	14.25
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	50.05	16.90	41.06	22.51	43.91	32.04

H. Diversity Factor

All India Demand Diversity Factor	1.017
-----------------------------------	-------

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

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Date of Reporting : 17-Jul-19

Import=(+ve)
/Export =(-ve) for
NET (MU)

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	345	56	3.2	0.0	3.2	
2		SASARAM-FATEHPUR	S/C	273	177	3.6	0.0	3.6	
3		GAYA-BALIA	S/C	99	235	0.0	1.0	-1.0	
4		HVDC	ALIPURDUAR-AGRA	-	0	1802	0.0	43.5	-43.5
5			PUSAULI B/B	S/C	0	248	0.0	3.1	-3.1
6	400 kV	PUSAULI-VARANASI	S/C	0	217	0.0	2.9	-2.9	
7		PUSAULI -ALLAHABAD	S/C	38	67	0.0	0.0	0.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	166	339	0.0	2.2	-2.2	
9		PATNA-BALIA	Q/C	104	484	0.0	4.3	-4.3	
10		BIHARSHARIFF-BALIA	D/C	50	137	0.0	0.8	-0.8	
11		MOTIHARI-GORAKHPUR	D/C	5	247	0.0	3.0	-3.0	
12		BIHARSHARIFF-VARANASI	D/C	235	51	2.8	0.0	2.8	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	206	0.0	4.3	-4.3	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6	
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
ER-NR						10.2	65.2	-55.1	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	2063	0	42.2	0.0	42.2	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1334	0	21.6	0.0	21.6	
20		JHARSUGUDA-DURG	D/C	345	1	5.9	0.0	5.9	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	421	0	6.0	0.0	6.0	
22		RANCHI-SIPAT	D/C	476	0	7.0	0.0	7.0	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	98	0.0	1.6	-1.6	
24		BUDHIPADAR-KORBA	D/C	175	0	3.2	0.0	3.2	
ER-WR						85.9	1.6	84.2	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1845.0	0.0	24.2	-24.2	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	319.0	0.0	7.4	-7.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2175.0	0.0	41.9	-41.9	
28	400 kV	TALCHER-I/C	D/C	329.0	906.0	0.0	3.8	-3.8	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	73.5	-73.5	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	640	0.0	6.7	-7	
31		ALIPURDUAR-BONGAIGAON	D/C	522	0	8.8	0.0	9	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	22	96	0.0	0.4	0	
ER-NER						8.8	7.0	1.7	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	803	0.0	19.8	-19.8	
NER-NR						0.0	19.8	-19.8	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1000	0.0	11.7	-11.7	
35		V'CHAL B/B	D/C	453	0	8.3	0.0	8.3	
36		APL -MHG	D/C	0	1168	0.0	29.1	-29.1	
37	765 kV	GWALIOR-AGRA	D/C	0	1702	0.0	25.4	-25.4	
38		PHAGI-GWALIOR	D/C	0	825	0.0	11.8	-11.8	
39		JABALPUR-ORAI	D/C	0	735	0.0	20.3	-20.3	
40		GWALIOR-ORAI	S/C	347	0	6.7	0.0	6.7	
41		SATNA-ORAI	S/C	0	1173	0.0	23.9	-23.9	
42		CHITTORGARH-BANASKANTHA	D/C	198	589	0.0	3.5	3.5	
43		ZERDA-KANKROLI	S/C	185	8	2.5	0.0	2.5	
44	400 kV	ZERDA -BHINMAL	S/C	377	0	7.0	0.0	7.0	
45		V'CHAL -RIHAND	S/C	966	0	22.1	0.0	22.1	
46		RAPP-SHUJALPUR	D/C	238	159	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	61	41	0.4	0.2	0.2	
48		BHANPURA-MORAK	S/C	0	129	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	100	0	1.1	0.0	1.1	
50		MALANPUR-AURAIYA	S/C	64	18	0.4	0.1	0.3	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						48.4	127.7	-72.3	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	94	999	0.6	12.2	-11.6	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	581	1432	0.0	9.1	-9.1	
55		WARDHA-NIZAMABAD	D/C	0	2295	0.0	30.0	-30.0	
56	400 kV	KOLHAPUR-KUDGI	D/C	772	0	11.0	0.0	11.0	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	77	0.0	1.5	-1.5	
59		XELDEM-AMBEWADI	S/C	0	44	0.8	0.0	0.8	
WR-SR						12.5	52.7	-40.2	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						42.5	
61		NEPAL						-2.4	
62		BANGLADESH						-24.1	