

## 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, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

दिनांक: 29<sup>th</sup> Jun 2020

Ref: POSOCO/NLDC/SO/Daily PSP Report

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.,२९ , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 28.06.2020.

महोदय/Dear Sir.

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, दिनांक 28-जून-२०२० 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 28<sup>th</sup> Jun 2020, 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:

A. Power Suppl	ly Position at All India and Regional level						
		NR	WR	SR	ER	NER	TOTAL
Demand Met dur	ring Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	59188	40910	34713	19372	2485	156668
Peak Shortage (M	MW)	368	0	0	0	6	374
Energy Met (MU	J)	1376	994	826	397	44	3637
Hydro Gen (MU)	)	358	61	72	138	29	659
Wind Gen (MU)		60	67	90	•	-	218
Solar Gen (MU)*		37.88	23.70	65.04	4.91	0.02	132
Energy Shortage	(MU)	9.4	0.0	0.0	0.0	0.5	9.9
Maximum Dema	and Met During the Day (MW) (From NLDC SCADA)	63133	42567	38129	19438	2532	160854
Time Of Maximu	ım Demand Met (From NLDC SCADA)	22:17	15:25	10:42	20:07	19:13	22:17
B. Frequency P	rofile (%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.028	0.00	0.00	3.14	3.14	75.00	21.86

All India	0.028	0.00	0.00	3.14	3.14	75.00	21.86	
. Power Sup	ply Position in States							='
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MIT)	Schedule	O.TTD	(3.533)	Shortage
U		day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Punjab	12427	0	278.9	146.9	-2.4	59	0.0
	Harvana	9642	0	209.5	141.1	1.5	249	0.0
	Rajasthan	11520	0	256.6	74.0	0.9	493	0.0
	Delhi	6086	0	112.5	99.7	1.1	501	0.0
NR	UP	24184	0	405.7	198.3	9.4	1048	0.0
	Uttarakhand	1765	0	40.1	17.4	0.3	103	0.0
	HP	1252	0	26.6	-2.1	-0.4	128	0.0
	J&K(UT) & Ladakh(UT)	2059	515	39.5	18.1	-1.6	277	9.4
	Chandigarh	327	0	6.1	5.6	0.5	65	0.0
	Chhattisgarh	3516	0	86.1	29.1	0.1	193	0.0
	Gujarat	14295	0	318.3	88.7	3.9	442	0.0
WR	MP	7961	0	173.9	96.5	-1.2	169	0.0
	Maharashtra	16156	0	371.0	185.8	-2.2	630	0.0
	Goa	387	0	8.5	7.8	0.2	48	0.0
	DD	221	0	4.9	4.8	0.1	26	0.0
	DNH	517	0	12.1	13.0	-0.9	36	0.0
	AMNSIL	847	0	18.8	8.7	-0.6	225	0.0
	Andhra Pradesh	7842	0	168.7	91.2	-1.2	644	0.0
	Telangana	7611	0	162.6	78.5	0.1	421	0.0
SR	Karnataka	8284	0	163.9	64.3	0.9	571	0.0
	Kerala	2896	0	58.6	41.8	0.4	241	0.0
	Tamil Nadu	11816	0	265.1	114.6	-3.0	533	0.0
	Puducherry	338	0	7.2	7.5	-0.3	33	0.0
	Bihar	5187	0	92.9	87.6	-0.1	554	0.0
	DVC	2800	0	61.4	-40.3	1.7	536	0.0
	Jharkhand	1446	0	25.1	18.9	-2.6	147	0.0
ER	Odisha	3730	0	79.6	-1.1	0.2	357	0.0
	West Bengal	6920	0	137.4	42.1	1.1	464	0.0
	Sikkim	74	0	0.9	1.1	-0.2	17	0.0
	Arunachal Pradesh	107	1	2.1	1.7	0.4	23	0.0
	Assam	1562	30	25.4	19.5	1.1	120	0.5
	Manipur	186	1	2.6	2.4	0.3	40	0.0
NER	Meghalaya	296	0	5.5	-0.9	-0.1	49	0.0
	Mizoram	94	1	1.7	1.2	0.3	14	0.0
	Nagaland	120	2	2.4	2.1	0.0	11	0.0
	Tripura	265	1	4.2	3.6	0.4	25	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	51.0	-0.9	-25.2
Day Peak (MW)	2186.0	-147.5	-1075.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	303.3	-280.8	115.4	-133.8	-4.0	0.0
Actual(MU)	298.8	-288.4	121.3	-133.6	-2.8	-4.5
O/D/U/D(MU)	-4.4	-7.5	5.9	0.3	1.3	-4.5
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F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5672	13134	10072	2320	1296	32493
State Sector	7530	24379	13243	4842	47	50041
Total	13202	37513	23315	7162	1343	82534

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	531	999	342	426	3	2301
Lignite	26	15	35	0	0	77
Hydro	358	61	72	138	29	659
Nuclear	29	36	47	0	0	112
Gas, Naptha & Diesel	31	75	19	0	18	143
RES (Wind, Solar, Biomass & Others)	119	108	199	5	0	430
Total	1095	1293	715	569	50	3722
					1	1
Share of RES in total generation (%)	10.87	8.32	27.78	0.87	0.04	11.56
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	46.27	15.81	44.46	25.18	57.21	32.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.086

Dased on State Wast Definants

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.

## INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 29-Jun-2020

Thypot:Export of ER (With NB)	nrt (MU) NET (MU)  24.5
ImportExport of ER (With NR)	10.0   -10.0
2	10.0   -10.0
3	9.4
4   765 kV   GANABAM-FATEHUR   S/C   97   125   0.0	0.0 0.0 7.3 -7.3 7.3 -7.3 6.2 -6.2 3.6 -3.6 3.3.8 -13.8 15.9 -15.9 6.0 -6.0 4.7 -4.7 2.0 -2.0 1.4 -1.4 0.0 0.0 0.0 0.0 0.0 0.4 0.0 0.0 0.0 0.4 0.0 0.0 0.0 0.1 1.5 0.0 1.5 0.0 1.5 0.0 1.5 0.0 1.5 0.0 1.5 0.0 0.1 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1
6   400 kV   PUSAULI-VARANAS   S/C   0   180   0.0     7   400 kV   PUSAULI-ALIAHABAD   S/C   0   180   0.0     8   400 kV   PUSAULI-ALIAHABAD   S/C   0   750   0.0     9   400 kV   PATNA-BAILA   D/C   0   752   0.0     10   400 kV   PATNA-BAILA   D/C   0   335   0.0     11   400 kV   BHHARSHARIF-BALIA   D/C   0   335   0.0     12   400 kV   MOTHARI-GORAKHPUR   D/C   0   326   0.0     12   400 kV   MOTHARI-GORAKHPUR   D/C   5   199   0.0     13   220 kV   PUSAULI-SAHUPURI   S/C   0   90   0.0     14   132 kV   SONE NAGAR-RHAND   S/C   0   0   0.0     15   132 kV   GARWAH-RHAND   S/C   0   0   0.4     16   132 kV   GARWAH-RHAND   S/C   0   0   0.4     17   132 kV   KARMANASA-SAHUPURI   S/C   0   0   0.0     17   132 kV   KARMANASA-SAHUPURI   S/C   0   0   0.0     18   17   SkV   KARMANASA-SAHUPURI   S/C   0   0   0.0     19   17   132 kV   KARMANASA-GHANDALLI   S/C   0   0   0.0     10   17   152 kV   KARMANASA-GHANDALLI   S/C   0   0   0.0     10   17   152 kV   KARMANASA-GHANDALLI   S/C   0   0   0.0     11   17   152 kV   KARMANASA-GHANDALLI   S/C   0   0   0.0     12   2   76 kV   NEW RANCH-DHARAMIAIGARH   D/C   783   68   10.4     3   76 kV   JHARSUGUDA-DURG   D/C   43   163   0.0     4   400 kV   JHARSUGUDA-DURG   D/C   43   163   0.0     4   400 kV   JHARSUGUDA-DURG   D/C   43   163   0.0     5   400 kV   RANCH-SIPAT   D/C   298   0   4.7     6   220 kV   BUDHIPADAR-KORBA   D/C   181   98   1.5     5   400 kV   RANCH-SIPAT   D/C   298   0   4.7     6   220 kV   BUDHIPADAR-KORBA   D/C   0   1373   0.0     1   400 kV   SANCH-SIPAT   D/C   0   499   0.0     2   HYDC   JEYPORE-GAZUWAKA B/B   D/C   0   479   9.0     3   765 kV   ABURHAR-AUGURA   D/C   0   479   9.0     5   220 kV   BUDHIPADAR-KORBA   D/C   0   479   9.0     6   50 kV   ABURHAR-AUGURA   D/C   0   499   0.0     7   765 kV   BINAGUR-BONGARGAON   D/C   0   538   0.0     1   400 kV   BINAGUR-BONGARGAON   D/C   0   500   0.0     1   400 kV   BINAGUR-BONGARGAON   D/C   0   1916   0.0     2   HYDC   CHAMPA-KURIKSHETRA   D/C   0   1916   0.0     4	6.2
7	3.6
9   400 kV   PATNA-BALIA   O/C   0   928   0.0       10   400 kV   BHIARNARIFF-BALIA   D/C   0   3355   0.0       11   400 kV   BHIARNARIFF-BALIA   D/C   0   326   0.0       12   400 kV   BHIARNARIFF-VARNANS   D/C   5   199   0.0       13   220 kV   PUSAULI-SAHUPUR   S/C   0   90   0.0       14   132 kV   SONE NAGAR-RIBIAND   S/C   0   0   0.0       15   132 kV   SONE NAGAR-RIBIAND   S/C   30   0   0.4       16   132 kV   KARMANASI-SAHUPUR   S/C   0   0   0.0       17   132 kV   KARMANASI-CHANDAULI   S/C   0   0   0.0       17   132 kV   KARMANASI-CHANDAULI   S/C   0   0   0.0       18   17   765 kV   JHARSUGUDA-DHARAMIAIGARH   D/C   783   68   10.4       19   765 kV   JHARSUGUDA-DHARAMIAIGARH   D/C   1344   0   20.9       2   765 kV   JHARSUGUDA-DURG   D/C   43   163   0.0       4   400 kV   JHARSUGUDA-AUGARH   D/C   1811   98   1.5       5   400 kV   RANCHI-SIPAT   D/C   298   0   4.7       6   220 kV   BUDHIPADAR-RIGARH   S/C   0   116   0.0       7   220 kV   BUDHIPADAR-KORBA   D/C   168   0   2.7       Import/Export of ER (With SR)   ER-WR   40.2       1   HYDC   IEYPORE-GAZUWAKA B/B   D/C   0   499   0.0       2   400 kV   ALIMELA-UPER-SILERRU   S/C   0   1873   0.0       4   400 kV   ALIMELA-UPER-SILERRU   S/C   0   158   0.0       1   HYDC   IEYPORE-GAZUWAKA B/B   D/C   0   538   0.0       2   400 kV   ALIMELA-UPER-SILERRU   S/C   0   158   0.0       1   HYDC   IEYPORE-GAZUWAKA B/B   D/C   0   538   0.0       2   400 kV   ALIMELA-UPER-SILERRU   S/C   0   158   0.0       1   HYDC   BUSWANTH CHARIALI-AGRA   D/C   0   538   0.0       1   HYDC   BUSWANTH CHARIALI-AGRA   D/C   0   538   0.0       1   HYDC   BUSWANTH CHARIALI-AGRA   D/C   0   538   0.0       1   HYDC   GERNORA ALIMERA   D/C   0   538   0.0       1   HYDC   CHAMPA-KURUSHETRA   D/C   0   166   0.0       1   HYDC   CHAMPA-KURUSHETRA   D/C   0   166   0.0       1   HYDC   CHAM	15.9
10	6.0
11	4.7
13   220 kV   PUSAULI-SAHUPURI   S/C   0   90   0.0     14   132 kV   SONE NAGAR-RHAND   S/C   0   0   0.0     15   132 kV   SONE NAGAR-RHAND   S/C   30   0   0.4     16   132 kV   KARMANASA-SAHUPURI   S/C   0   0   0.0     17   132 kV   KARMANASA-SAHUPURI   S/C   0   0   0.0     18   18 kV   KARMANASA-SAHUPURI   S/C   0   0   0.0     19   18   18   18   18   18   18     19   19   18   18   18   18     10   19   18   18   18   18     11   765 kV   JHARSUGUDA-DHARAMJAIGARH   D/C   783   68   10.4     2   765 kV   JHARSUGUDA-DHARAMJAIGARH   D/C   783   68   10.4     3   765 kV   JHARSUGUDA-DURG   D/C   43   163   0.0     4   400 kV   JHARSUGUDA-DURG   D/C   43   163   0.0     4   400 kV   JHARSUGUDA-BAIGARH   D/C   298   0   4.7     5   400 kV   RANCHI-SIPAT   D/C   298   0   4.7     6   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     7   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     7   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     1   HVDC   JEYPORE-GAZIWAKA BB   D/C   0   499   0.0     2   HVDC   TALCIER-KOLAR BB   D/C   0   1873   0.0     3   765 kV   BALMELA-UPPER-SILERRU   S/C   1   0   0.0     5   220 kV   BALMELA-UPPER-SILERRU   S/C   1   0   0.0     1   400 kV   ALIFURDUAR-SALAKATI   D/C   0   538   0.0     1   400 kV   ALIFURDUAR-SALAKATI   D/C   0   538   0.0     1   1   400 kV   ALIFURDUAR-SALAKATI   D/C   0   548   0.0     1   1   HVDC   BISWANATH CHARLALAGRA   - 0   704   0.0     1   Import/Export of VER (With NR)   1   1   1   1   1   1   1   1   1	1.4         -1.4           0.0         0.0           0.0         0.4           0.0         0.0           0.0         0.0           0.0         0.0           0.4         104.3           0.0         20.9           0.0         10.4           0.8         -0.8           0.0         4.7           1.4         -1.4           0.0         2.7           2.2         38.0           8.6         -8.6           41.8         41.8           47.7         -47.7           7.1         -7.1           0.0         0.0           98.1         -5.0           5.0         -5.0           1.6         -1.6           11.6         -11.6           17.2         -17.2           17.2         -52.9           0.0         10.2
14   132 kV   SONE NAGAR-RIHAND	0.0 0.0 0.0 0.4 0.0 0.4 0.0
16	0.0 0.0
17   132 kV   KARMANASA-CHANDAULI   S/C   0   0   0.0	0.0         0.0           04.7         -104.3           0.0         20.9           0.0         10.4           0.8         -0.8           0.0         1.5           0.0         4.7           1.4         -1.4           0.0         2.7           2.2         38.0           8.6         -8.6           41.8         -41.8           47.7         -47.7           7.1         -7.1           0.0         0.0           98.1         -98.1           5.0         -5.0           1.6         -1.6           1.6         -1.6           1.1.6         -17.2           17.2         -17.2           2.2.9         -5.2.9           0.0         10.2
Import/Export of ER (With WR)   1	0.0 20.9 0.0 10.4 0.8 -0.8 0.0 1.5 0.0 4.7 1.4 -1.4 0.0 2.7 2.2 38.0 8.6 -8.6 11.8 -41.8 147.7 -47.7 7.1 -7.1 0.0 0.0 18.1 -98.1 5.0 -5.0 1.6 -1.6 11.6 -11.6 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2
1   765 kV   JHARSUGUDA-DHARAMJAIGARH   Q/C   1344   0   20.9     2   765 kV   NEW RANCH-DHARAMJAIGARH   D/C   783   68   10.4     3   765 kV   JHARSUGUDA-DURG   D/C   43   163   0.0     4   400 kV   JHARSUGUDA-RAIGARH   Q/C   181   98   1.5     5   400 kV   RANCHI-SIPAT   D/C   298   0   4.7     6   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     7   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     7   220 kV   BUDHIPADAR-RAIGARH   D/C   168   0   2.7     Import/Export of ER (With SR)   ER-WR   40.2     1   HVDC   JEYPORE-GAZUWAKA B/B   D/C   0   499   0.0   0     2   HVDC   TALCHER-KOLAR BIPOLE   D/C   0   1873   0.0   0     4   400 kV   TALCHER-L/C   D/C   0   2602   0.0   0     4   400 kV   TALCHER-L/C   D/C   393   996   0.0   0     5   220 kV   BALIMELA-UPPER-SILERRU   S/C   1   0   0     1   400 kV   BINAGUR-BONGAIGAON   D/C   0   538   0.0   0     2   400 kV   ALIPURDUAR-BONGAIGAON   D/C   0   538   0.0   0     3   220 kV   ALIPURDUAR-BONGAIGAON   D/C   0   538   0.0   0     1   HVDC   BISWANATH CHARIALI-AGRA   D/C   0   158   0.0   0     1   HVDC   BISWANATH CHARIALI-AGRA   D/C   0   1001   0.0   0     1   HVDC   C   C   C   C   C   C   C   C   C	0.0 10.4 0.8 -0.8 0.0 1.5 0.0 4.7 1.4 -1.4 0.0 2.7 2.2 38.0 8.6 -8.6 11.8 -11.8 14.1.8 -11.8 14.1.8 -1.8 15.0 -5.0 16.0 -1.6 16.1 -1.6 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2
2   765 kV   NEW RANCHI-DHARAMIJAIGARH   D/C   783   68   10.4     3   765 kV   JHARSUGUDA-DURG   D/C   43   163   0.0     4   400 kV   JHARSUGUDA-RAIGARH   Q/C   181   98   1.5     5   400 kV   RANCHI-SIPAT   D/C   298   0   4.7     6   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     7   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     7   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     8   1   HVDC   JEYPORE-GAZUWAKA B/B   D/C   0   499   0.0     1   HVDC   JEYPORE-GAZUWAKA B/B   D/C   0   1873   0.0     2   HVDC   TALCHER-KOLAR BIPOLE   D/C   0   1873   0.0     3   765 kV   ANGUL-SRIKAKULAM   D/C   0   2602   0.0   0     4   400 kV   TALCHER-LOPER-SILERRU   S/C   1   0   0.0     5   220 kV   BALIMELA-UPPER-SILERRU   S/C   1   0   0.0     1   400 kV   ALIPURDUAR-SALAKATI   D/C   0   538   0.0     2   400 kV   ALIPURDUAR-SALAKATI   D/C   0   558   0.0     3   220 kV   ALIPURDUAR-SALAKATI   D/C   0   158   0.0     1   HVDC   BISWANATH CHARIALI-AGRA   - 0   704   0.0     1   HVDC   CHAMPA-KURUKSHETRA   D/C   0   1916   0.0     1   HVDC   CHAMPA-KURUKSHETRA   D/C   0   1916   0.0     4   765 kV   GWALIOR-AGRA   D/C   0   1163   0.0     4   765 kV   GWALIOR-AGRA   D/C   0   1163   0.0     5   765 kV   JABALPUR-ORAI   D/C   0   158   0.0     6   765 kV   JABALPUR-ORAI   D/C   0   1916   0.0     6   765 kV   JABALPUR-ORAI   D/C   0   1529   0.0     7   765 kV   JABALPUR-ORAI   D/C   0   1529   0.0     9   765 kV   SATINA-ORAI   S/C   344   0   5.4     11   400 kV   ZERDA-BAINSANTHA   D/C   0   1007   0.0     10   400 kV   ZERDA-BAINSANTHA   D/C   0   152,4     11   400 kV   ZERDA-BAINSANTHA   D/C   344   0   5.4     12   400 kV   ZERDA-BAINSANTHA   D/C   344   0   5.4     12   400 kV   ZERDA-BAINSANTHA   D/C   344   0   5.4     12   400 kV   ZERDA-BAINSANTHA   D/C   344   0   5.4     11   400 kV   ZERDA-BAINSANTHA   D/C   344   0   5.4     12   400 kV   ZERDA-BAINSANTHA   D/C   344   0   5.4     12   400 kV   ZERDA-BAINSANTHA   D/C   344   0   5.4     13   400 kV   ZERDA-BAINSANTHA   D/C   344   0	0.0 10.4 0.8 -0.8 0.0 1.5 0.0 4.7 1.4 -1.4 0.0 2.7 2.2 38.0 8.6 -8.6 11.8 -11.8 14.1.8 -11.8 14.1.8 -1.8 15.0 -5.0 16.0 -1.6 16.1 -1.6 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2
3   765 kV	0.8
S	0.0 4.7 1.4 -1.4 0.0 2.7 2.2 38.0 8.6 -8.6 41.8 -41.8 17.7 -47.7 7.1 -7.1 0.0 0.0 88.1 -98.1 5.0 -5.0 5.0 -5.0 1.6 -1.6 11.6 -11.6 11.6 17.2 -17.2 17.2 -17.2 52.9 -52.9 0.0 10.2
6   220 kV   BUDHIPADAR-RAIGARH   S/C   0   116   0.0     7   220 kV   BUDHIPADAR-KORBA   D/C   168   0   2.7	1.4 -1.4 0.0 2.7 2.2 38.0 8.6 -8.6 41.8 -41.8 47.7 -47.7 7.1 -7.1 9.0 0.0 8.1 -98.1 5.0 -5.0 5.0 -5.0 1.6 -1.6 11.6 -11.6 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2 17.2 -17.2
Tolerand   Tolerand	0.0 2.7 2.2 38.0 8.6 -8.6 11.8 -41.8 17.7 -47.7 7.1 -7.1 0.0 0.0 18.1 -98.1 5.0 -5.0 1.6 -1.6 11.6 -11.6 17.2 -17.2 17.2 -17.2 17.2 -17.2 2.9 -5.2.9 0.0 10.2
Import/Export of ER (With SR)	2.2         38.0           8.6         -8.6           41.8         -41.8           47.7         -47.7           7.1         -7.1           0.0         0.0           98.1         -98.1           5.0         -5.0           5.0         -5.0           1.6         -1.6           11.6         -11.6           17.2         -17.2           17.2         -17.2           25.9         -5.2.9           0.0         10.2
Import/Export of ER (With SR)	8.6 -8.6 41.8 -41.8 47.7 -47.7 7.1 -7.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1	11.8
3   765 kV   ANGUL-SRIKAKULAM   D/C   0   2602   0.0   4   4   400 kV   TALCHER-I/C   D/C   393   996   0.0   5   5   220 kV   BALIMELA-UPPER-SILERRU   N/C   1   0   0.0   5   1   0   0.0   5   1   0   0.0   0   5   1   0   0.0   0   0   0   0   0   0   0	17.7
4   400 kV   TALCHERJC   D/C   393   996   0.0     5   220 kV   BALIMELA-UPPER-SILERRU   S/C   1   0   0.0	7.1 -7.1 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.0 0.0 0.0 0.0
S   220 kV   BALIMELA-UPPER-SILERRU   S/C   1   0   0.0	0.0 0.0 18.1 -98.1 5.0 -5.0 5.0 -5.0 1.6 -1.6 11.6 -11.6 17.2 -17.2 17.2 -17.2 52.9 -52.9 0.0 10.2
Import/Export of ER (With NER)   1   400 kV   BINAGURI-BONGAIGAON   D/C   0   538   0.0	5.0         -5.0           5.0         -5.0           1.6         -1.6           11.6         -11.6           17.2         -17.2           17.2         -17.2           52.9         -52.9           0.0         10.2
1   400 kV   BINAGURI-BONGAIGAON   D/C   0   538   0.0	5.0         -5.0           1.6         -1.6           11.6         -11.6           17.2         -17.2           17.2         -17.2           52.9         -52.9           0.0         10.2
3   220 kV   ALIPURDUAR-SALAKATI   D/C   0   158   0.0	1.6         -1.6           11.6         -11.6           17.2         -17.2           17.2         -17.2           52.9         -52.9           0.0         10.2
Import/Export of NER (With NR)	11.6
Import/Export of NER (With NR)   1	17.2 -17.2 17.2 -17.2 52.9 -52.9 0.0 10.2
Import/Export of WR (With NR)   1	17.2 -17.2 52.9 -52.9 0.0 10.2
Import/Export of WR (With NR)   1	52.9 -52.9 0.0 10.2
2	0.0 10.2
3	
4         765 kV         GWALIOR-AGRA         D/C         0         2580         0.0         4           5         765 kV         PHAGI-GWALIOR         D/C         0         1163         0.0         0           6         765 kV         JABALPUR-ORAI         D/C         0         906         0.0         0           7         765 kV         GWALIOR-ORAI         S/C         386         0         7.3         0           8         765 kV         SATNA-ORAI         S/C         0         1529         0.0         0           9         765 kV         CHITORGARI-BANASKANTHA         D/C         0         1097         0.0         0           10         400 kV         ZERDA-KANKROLI         S/C         136         119         0.6           11         400 kV         ZERDA-BHINMAL         S/C         344         0         5.4           12         400 kV         V'CHAL-RIHAND         S/C         975         0         22.3	40.5 -40.5
6         765 kV         JABALPUR-ORAI         D/C         0         906         0.0           7         765 kV         GWALIOR-ORAI         S/C         386         0         7.3           8         765 kV         STANA-ORAI         S/C         0         1529         0.0           9         765 kV         CHITORGARH-BANASKANTHA         D/C         0         1097         0.0           10         400 kV         ZERDA-KANKROLI         S/C         136         119         0.6           11         400 kV         ZERDA-BHINMAL         S/C         344         0         5.4           12         400 kV         V'CHAL-RIHAND         S/C         975         0         22.3	45.5 -45.5
7         765 kV         GWALIOR-ORAI         S/C         386         0         7.3           8         765 kV         SATNA-ORAI         S/C         0         1529         0.0         9           9         765 kV         CHITORGARI-BANASKANTHA         D/C         0         1097         0.0         1           10         400 kV         ZERDA-KANKROLI         S/C         136         119         0.6           11         400 kV         ZERDA-BHINMAL         S/C         344         0         5.4           12         400 kV         V'CHAL-RIHAND         S/C         975         0         22.3	21.4 -21.4 29.9 -29.9
9         765 kV         CHITORGARH-BANASKANTHA         D/C         0         1097         0.0           10         400 kV         ZERDA-KANKROLI         S/C         136         119         0.6           11         400 kV         ZERDA-BHINMAL         S/C         344         0         5.4           12         400 kV         V'CHAL-RIHAND         S/C         975         0         22.3	0.0 7.3
10   400 kV   ZERDA-KANKROLI   S/C   136   119   0.6     11   400 kV   ZERDA - BHINMAL   S/C   344   0   5.4     12   400 kV   VCHAL - RIHAND   S/C   975   0   22.3	31.5 -31.5
11         400 kV         ZERDA -BHINMAL         S/C         344         0         5.4           12         400 kV         V'CHAL -RIHAND         S/C         975         0         22.3	11.7 -11.7 0.0 0.6
	0.0 5.4
13 TOURY RAFF-SHUJALFUR D/C 30 330 0.00	0.0 22.3
	2.1 -2.1 2.1 -2.1
15 220 kV BHANPURA-MORAK S/C 0 120 0.0	2.2 -2.2
	0.1 0.2 0.0 0.9
18 132 kV GWALIOR-SAWAI MADHOPUR S/C 0 0 0.0	0.0
19   132 kV   RAJGHAT-LALITPUR   D/C   0   0   0.0	0.0 0.0
WR-NR   47.1   2   Import/Export of WR (With SR)	39.6 -192.5
1 HVDC BHADRAWATI B/B - 0 1002 0.0	17.9 -17.9
	0.0 0.0 0.0 0.4
4 765 kV SOLAPUR-RAICHUR D/C 328 2057 0.3	20.5 -20.3
5 765 kV WARDHA-NIZAMABAD D/C 0 2441 0.0 3	31.5 -31.5
	0.0 11.5 0.0 0.0
8 220 kV PONDA-AMBEWADI S/C 0 0 0.0	0.0 0.0
	0.0 1.6 59.9 -56.1
WR-SR 13.8 INTERNATIONAL EXCHANGES	-30.1
	Energy Exchange
State Region Line Name Max (MW) Min (MW) Avg	(MW) (MU)
ER DAGACHU (2 * 63) 0 0	0.0
ER CHUKA (4*84) BIRPARA RECEIPT 298 287	264 6.3
	207 0.3
BHUTAN ER MANGDECHHU (4 x 180) 744 740	730 17.5
	034 24.8
	24.0
NER 132KV-SALAKATI - GELEPHU 53 0	46 1.1
NER 132KV-RANGIA - DEOTHANG 63 0	51 1.2
132KV-Tanakpur(NH)	J. 1,2
NR Mahendranagar(PG) -18 0	-6 -0.2
NEPAL ER 132KV-BIHAR - NEPAL -2 0	-1 0.0
220KV-MUZAFFARPUR -	
ER DHALKEBAR DC -128 -2	-30 -0.7
	948 -22.8
122KV.SIIPATMANI NACAR	-44.0
BANGLADESH NER COMILLA(BANGLADESH)-1 60 0	
NEP 132KV-SURAJMANI NAGAR - 50 0	-50 -1.2
COMILLA(BANGLADESH)-2 59 U	