

# National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

# POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर 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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 15<sup>th</sup> Mar 2020

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 14.03.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-मार्च-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ 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 14<sup>th</sup> Mar 2020, is available at the NLDC website.

धन्यवाद,

Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting: 15-Mar-2020

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	37811	47985	44391	16201	2392	148780
Peak Shortage (MW)	504	0	0	0	50	554
Energy Met (MU)	791	1127	1117	337	41	3413
Hydro Gen (MU)	148	42	84	32	5	310
Wind Gen (MU)	8	58	34	-	-	100
Solar Gen (MU)*	37.99	30.30	91.42	1.21	0.04	161
Energy Shortage (MU)	11.5	0.0	0.0	0.0	1.2	12.7
Maximum Demand Met During the Day (MW) From NLDC SCADA)	39746	52361	51771	17362	2434	158672
Fime Of Maximum Demand Met (From NLDC SCADA)	19:29	10:53	09:45	19:38	18:03	09:45

C. Power	Sumply	Docition	in	Stat

Region	States	Max. Demand Met during the day(MW)	Shortage during maximum	Energy Met (MU)	Drawal Schedule(MU)	OD(+)/UD(-)(MU)	Max OD(MW)	Energy Shortage (MU)
	Punjab	4869	Demand(MW)	96.0	66.6	-0.1	178	0.0
	Haryana	5456	0	103.4	91.2	0.4	170	0.0
	Rajasthan	12099	0	209.3	63.2	-3.4	169	0.0
	Delhi	3306	0	58.3	46.7	-0.3	143	0.0
NR	UP	13050	0	213.3	102.9	-1.0	945	0.0
	Uttarakhand	1750	0	32.8	12.1	0.2	198	0.0
	HP	1534	0	25.5	19.1	-0.7	128	0.0
	J&K(UT) &	2130	533	48.8	39.6	-0.3	147	11.5
	Ladakh(UT) Chandigarh	192	0	3.4	3.4	-0.1	17	0.0
	Chhattisgarh	3527	0	77.6	27.3	-0.9	438	0.0
	Gujarat	15685	0	333.1	92.6	2.7	640	0.0
	MP	10192	0	199.1	100.0	-1.2	533	0.0
WR	Maharashtra	22558	0	476.3	148.2	-1.0	436	0.0
	Goa	467	0	9.9	9.8	-0.4	29	0.0
	DD	325	0	7.4	7.1	0.3	29	0.0
	DNH	796	0	18.6	18.6	0.0	59	0.0
	Essar steel	761	0	5.1	5.1	0.0	229	0.0
	Andhra Pradesh	9809	0	198.5	85.4	1.2	501	0.0
	Telangana	11813	0	235.9	134.0	0.3	592	0.0
SR	Karnataka	12546	0	253.5	86.3	0.2	650	0.0
	Kerala	3926	0	81.6	65.2	1.0	176	0.0
	Tamil Nadu	15019	0	339.2	186.2	-0.7	702	0.0
	Puducherry	387	0	8.2	8.5	-0.3	34	0.0
	Bihar	3380	0	52.5	52.3	-2.2	277	0.0
	DVC	2858	0	58.3	-38.7	0.2	316	0.0
	Jharkhand	1071	0	18.1	11.5	-2.3	92	0.0
ER	Odisha	3994	0	78.1	2.8	0.4	301	0.0
	West Bengal	6508	0	129.0	37.3	-0.1	343	0.0
	Sikkim	147	0	1.4	1.9	-0.5	43	0.0
	Arunachal Pradesh	121	2	2.2	2.2	-0.1	71	0.0
	Assam	1374	19	22.8	19.8	-0.4	121	1.0
	Manipur	187	2	2.7	2.5	0.2	51	0.0
NER	Meghalaya	361	0	5.3	4.0	0.0	65	0.1
	Mizoram	97	1	1.7	1.4	0.2	30	0.0
	Nagaland	125	2	2.2	2.1	0.1	10	0.0
	Tripura	244	1	3.9	3.1	0.7	102	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.6	-8.7	-14.0
Day Peak (MW)	524.2	-523.0	-1072.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	178.7	-234.9	175.7	-124.5	5.0	0.0
Actual(MU)	164.0	-224.6	203.7	-147.2	7.6	3.5
O/D/U/D(MU)	-14.8	10.3	28.0	-22.7	2.6	3.5

## F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5376	16133	3802	460	727	26497
State Sector	19820	16921	8345	5302	11	50399
Total	25196	33053	12147	5762	738	76896

Coal	362	1104	554	484	11	2515
Lignite	19	13	53	0	0	85
Hydro	148	42	84	32	5	310
Nuclear	24	37	49	0	0	110
Gas, Naptha & Diesel	29	73	17	0	22	141
RES (Wind, Solar, Biomass & Others)	72	97	164	1	0	335
Total	654	1366	921	517	39	3496
Share of RES in total generation (%)	11.07	7.13	17.78	0.24	0.10	9.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.35	12.89	32.24	6.36	13.82	21.61

Based on Regional Max Demands	1.032
Based on State Max Demands	1 088

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:	ve) for NET (MU)
SI	Veltege Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
No	Voltage Level		Oilcuit	max import (mvv)	max Export (mivr)	import (iiio)	Export (iiio)	IEI (MO)
1 1	ort/Export of ER HVDC	(With NK) ALIPURDUAR-AGRA	T .	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	D/C	0	811	0.0	11.4	-11.4
4	765 kV	SASARAM-FATEHPUR	S/C	0	514	0.0	6.8	-6.8
5	765 kV	GAYA-BALIA	S/C	0	406	0.0	6.5	-6.5
6	400 kV	PUSAULI-VARANASI	S/C	0	194	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	129	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	651	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	Q/C	0	972	0.0	16.1	-16.1
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	372	0.0	5.0	-5.0
11	400 kV	MOTIHARI-GORAKHPUR	D/C D/C	0 80	356 346	0.0	6.1	-6.1
13	400 kV 220 kV	BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI	S/C	0	151	0.0	2.6 2.6	-2.6 -2.6
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	0.3	77.2	-76.9
Impo	ort/Export of ER	(With WR)						
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1244	0	21.0	0.0	21.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	211	555	0.0	5.4	-5.4
3	765 kV	JHARSUGUDA-DURG	D/C	0	229	0.0	3.7	-3.7
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	212	255	0.0	1.4	-1.4
_				-				
5	400 kV	RANCHI-SIPAT	D/C	69	190	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	S/C	38	90	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	D/C	111	12	1.3	0.0	1.3
					ER-WR	22.3	13.1	9.1
Impo	ort/Export of ER							
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	687	0.0	15.9	-15.9
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2473	0.0	46.9	-46.9
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3292	0.0	67.2	-67.2
4	400 kV	TALCHER-I/C	D/C	312	968	0.0	6.1	-6.1
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
Imm	ort/Export of ER	(Mish NED)			ER-SR	0.0	130.0	-130.0
1	400 kV	BINAGURI-BONGAIGAON	D/C	159	222	1.0	0.0	1.0
2	400 KV	ALIPURDUAR-BONGAIGAON	D/C	259	254	1.9	0.0	1.9
3	220 kV	ALIPURDUAR-SALAKATI	D/C	51	47	0.4	0.0	0.4
					ER-NER	3.4	0.0	3.4
Impo	ort/Export of NE	R (With NR)						
1	HVDC	BISWANATH CHARIALI-AGRA	-	466	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
Impo	ort/Export of WF							
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	155	0.0	25.7	-25.7
2	HVDC	V'CHAL B/B	D/C	448	0	7.5	0.0	7.5
3	HVDC	APL -MHG	D/C	0	1079	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	D/C	0	1079 1737	0.0 0.0	27.4	-26.7 -27.4
5	765 kV 765 kV	GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C	0 0 0	1079 1737 1166	0.0 0.0 0.0	27.4 19.1	-26.7 -27.4 -19.1
4 5 6	765 kV 765 kV 765 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI	D/C D/C D/C	0 0 0	1079 1737 1166 657	0.0 0.0 0.0 0.0	27.4 19.1 19.2	-26.7 -27.4 -19.1 -19.2
4 5 6 7	765 kV 765 kV 765 kV 765 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI	D/C D/C D/C S/C	0 0 0 0 0 700	1079 1737 1166 657	0.0 0.0 0.0 0.0 10.2	27.4 19.1 19.2 0.0	-26.7 -27.4 -19.1 -19.2 10.2
4 5 6	765 kV 765 kV 765 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI	D/C D/C D/C	0 0 0	1079 1737 1166 657	0.0 0.0 0.0 0.0	27.4 19.1 19.2	-26.7 -27.4 -19.1 -19.2
4 5 6 7 8	765 kV 765 kV 765 kV 765 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI	D/C D/C D/C S/C S/C	0 0 0 0 700	1079 1737 1166 657 0 1116	0.0 0.0 0.0 0.0 10.2	27.4 19.1 19.2 0.0 22.7	-26.7 -27.4 -19.1 -19.2 10.2 -22.7
4 5 6 7 8 9	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL	D/C D/C D/C S/C S/C S/C D/C	0 0 0 0 700 0 424	1079 1737 1166 657 0 1116 501	0.0 0.0 0.0 0.0 10.2 0.0	27.4 19.1 19.2 0.0 22.7	-26.7 -27.4 -19.1 -19.2 10.2 -22.7 -1.2
4 5 6 7 8 9	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI	D/C D/C D/C S/C S/C D/C S/C S/C D/C	0 0 0 0 700 0 424 180	1079 1737 1166 657 0 1116 501	0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4	27.4 19.1 19.2 0.0 22.7 1.2	-26.7 -27.4 -19.1 -19.2 10.2 -22.7 -1.2
4 5 6 7 8 9 10 11 12	765 kV 400 kV 400 kV 400 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR	D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 700 0 424 180 215 972	1079 1737 1166 657 0 1116 501 47 219 0	0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.0	-26.7 -27.4 -19.1 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.6
4 5 6 7 8 9 10 11 12 13	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 400 kV 220 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHAMPUR-RANPUR	D/C D/C D/C D/C S/C S/C S/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 700 0 424 180 215 972 178	1079 1737 1166 657 0 1116 501 47 219 0 274 67	0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.0 0.0	-26.7 -27.4 -19.1 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.6 -0.9
4 5 6 7 8 9 10 11 12 13 14	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 400 kV 220 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR	D/C D/C D/C D/C S/C S/C D/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 700 0 424 180 215 972 178 18	1079 1737 1737 0 1116 501 47 219 0 274 67	0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.0 0.0 0.6 1.0	-26.7 -27.4 -19.1 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.6 -0.9 -1.7
4 5 6 7 8 9 10 11 12 13 14 15	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK	DIC	0 0 0 700 0 424 180 215 972 178 18 0	1079 1737 11166 657 0 1116 501 47 219 0 274 67 127 0	0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.0 0.0 0.6 1.7	-26.7 -27.4 -19.1 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.6 -0.9 -1.7 -1.5
4 5 6 7 8 9 10 11 12 13 14 15 16 17	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-SHINMAL YCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAMPUR-AURAIYA	DIC	0 0 0 700 0 424 180 215 972 178 18 0	1079 1737 11166 657 0 11116 501 47 219 0 274 67 127 0	0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.0 0.0 1.0 1.7 0.0	-26.7 -27.4 -19.1 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.6 -0.9 -1.7 -1.5 -0.7
4 5 6 7 8 9 10 11 12 13 14 15	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK	DIC	0 0 0 700 0 424 180 215 972 178 18 0	1079 1737 11166 657 0 11116 501 47 219 0 274 67 127 0 5	0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1 0.0	27.4 19.1 19.2 0.0 0.22.7 1.2 0.0 0.0 0.0 0.6 1.7 0.0 0.0 0.0	-26.7 -27.4 -19.1 -19.2 -10.2 -22.7 -1.2 -1.4 -0.6 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0
4 5 6 7 8 9 10 11 12 13 14 15 16 17	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHIMMAL YICHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURANYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	DIC	0 0 0 700 0 424 180 215 972 178 18 0	1079 1737 11166 657 0 11116 501 47 219 0 274 67 127 0	0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.0 0.0 1.0 1.7 0.0	-26.7 -27.4 -19.1 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.6 -0.9 -1.7 -1.5 -0.7
4 5 6 7 8 9 10 11 12 13 14 15 16 17	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHIMMAL YICHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURANYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	DIC	0 0 0 700 0 424 180 215 972 178 18 0	1079 1737 11166 657 0 11116 501 47 219 0 274 67 127 0 5	0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1 0.0	27.4 19.1 19.2 0.0 0.22.7 1.2 0.0 0.0 0.0 0.6 1.7 0.0 0.0 0.0	-26.7 -27.4 -19.1 -19.2 -10.2 -22.7 -1.2 -1.4 -0.6 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0
4 5 6 7 8 9 10 11 12 13 14 15 16 17	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-SHINMAL YCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR)	DIC	0 0 0 0 700 0 424 180 215 972 178 18 0 105 68	1079 1166 657 0 1116 501 47 219 0 274 67 127 0 0 WR-NR	0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1 1.5 0.0 0.1 0.0	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 0.0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Impo	765 kV 765 kV 765 kV 775 kV 775 kV 765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 132 kV 132 kV HVDC HVDC HVDC HVDC 765 kV	GWALLOR-AGRA PHAGI-GWALLOR JABALPUR-ORAI GWALLOR-ORAI GWALLOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALLOR-SAWAI MADHOPUR LWISH SRI	D/C D/C D/C D/C D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 1106 657 0 1116 501 47 219 0 274 67 127 0 0 WR-NR	0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 0.0 0.1 1.5 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.45.2	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4	765 kV 765 kV 765 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV HUDG	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-SHIMMAL VICHAL-RIHAND RAPP-SHUJALPUR BHANPUR-ARNPUR BHANPUR-AWGRAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (WITH SR) BHANBUR-SHIERU	D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 700 0 424 180 215 972 178 18 0 105 68	1079 1737 1166 657 0 1116 501 47 219 0 67 127 67 127 0 WR-NR	0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0	27.4 19.1 19.2 0.0 22.7 1.2 0.0 0.0 0.0 0.0 1.7 0.0 0.0 1.7 0.0 0.0 1.7 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV PROPERTY OF WE HVDC 765 kV 765 kV 765 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHIMMAL VICHAL-RIHAND RAPP-SHUJALPUR BHANPUR-ARNPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR (WISH SR) BHADRAWATI BI'B BBARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 1166 657 0 1116 557 0 1118 47 219 0 274 67 127 0 WR-NR 1006 0 0 2820 3211	0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1 1.5 0.7 0.0 43.9 0.0 0.0 0.0 0.0 1.4	27.4 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.0 0.6 1.0 1.7 0.0 0.0 0.0 1.5 24.0 0.0 42.9 59.8	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6	765 kV 765 kV 7765 kV 7765 kV 7765 kV 7765 kV 7765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 400 kV	GWALLOR-AGRA PHAGI-GWALLOR JABALPUR-ORAI GWALLOR-ORAI GWALLOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-ARNPUR BHANPUR-ARNPUR BHANPUR-AWANYA MALANPUR-AURAIYA GWALLOR-SAWAI MADHOPUR  ( With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZ-AMABAD KOLHAPUR-KUMGI KOLHAPUR-KUMGI	DIC DIC DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 0 424 180 215 972 178 18 0 105 68 0 0 0 0 0 821	1079 1166 657 0 1116 501 47 219 0 274 67 1227 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.0 1.7 0.0 0.0 0.0 145.2 24.0 0.0 0.0 242.9 59.8 0.0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 400 kV 400 kV 400 kV 420 kV 220 kV 220 kV 220 kV 132 kV 152 kV HVDC HVDC 765 kV 400 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-HIMMAL VICHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI BIB BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI	D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 700 0 424 180 215 972 178 18 0 105 68 0	1079 1737 1166 657 0 1116 501 47 219 0 0 47 274 67 127 0 WR-NR 1006 0 2620 3211 0 0 60	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 0.0 1.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-26.7 -27.4 -19.1 -19.1 -19.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.9 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -1.2
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6	765 kV 765 kV 7765 kV 7765 kV 7765 kV 7765 kV 7765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 400 kV	GWALLOR-AGRA PHAGI-GWALLOR JABALPUR-ORAI GWALLOR-ORAI GWALLOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-ARNPUR BHANPUR-ARNPUR BHANPUR-AWANYA MALANPUR-AURAIYA GWALLOR-SAWAI MADHOPUR  ( With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZ-AMABAD KOLHAPUR-KUMGI KOLHAPUR-KUMGI	DIC DIC DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 0 424 180 215 972 178 18 0 105 68 0 0 0 0 0 821	1079 1166 657 0 1116 501 47 219 0 274 67 1227 0 0 WR-NR 1006 0 2620 3211 0 0 94	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.0 0.6 1.0 1.7 0.0 0.0 145.2 24.0 0.0 24.9 59.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-26.7 -27.4 -19.1 -19.2 -19.2 -1.2 -1.4 -0.0 -22.6 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -11.4 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 400 kV 400 kV 400 kV 420 kV 220 kV 220 kV 220 kV 132 kV 152 kV HVDC HVDC 765 kV 400 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-HIMMAL VICHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI BIB BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI	DIC DIC DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 0 424 180 215 972 178 18 0 0 105 68 0 0 0 0 0 0 0 821 0 0 0	1079 1737 17166 657 0 1116 501 47 219 0 274 67 1227 0 0 WR-NR 1006 0 2620 3211 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 0.0 1.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-26.7 -27.4 -19.1 -19.1 -19.2 -22.7 -1.2 -1.4 -0.0 -22.6 -0.9 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -1.2
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 400 kV 400 kV 400 kV 420 kV 220 kV 220 kV 220 kV 132 kV 152 kV HVDC HVDC 765 kV 400 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-HIMMAL VICHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI BIB BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI	DIC DIC DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 0 700 0 424 180 215 972 178 18 0 105 68 0	1079 1737 17166 657 0 1116 501 47 219 0 274 67 1227 0 0 WR-NR 1006 0 2620 3211 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.0 0.6 1.0 1.7 0.0 0.0 145.2 24.0 0.0 24.9 59.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.4 -0.0 -22.6 -0.5 -0.5 -1.7 -1.5 -0.7 -0.0 -101.3 -101.3 -101.3 -11.4 -11.4 -1.8 -114.9
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 400 kV 400 kV 400 kV 420 kV 220 kV 220 kV 220 kV 132 kV 152 kV HVDC HVDC 765 kV 400 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-HIMMAL VICHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI BIB BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI	D/C	0 0 0 0 700 0 424 180 215 972 178 18 0 0 105 68 0 0 0 0 0 0 0 821 0 0 0	1079 1737 17166 657 0 1116 501 47 219 0 274 67 1227 0 0 WR-NR 1006 0 2620 3211 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.0 0.6 1.0 1.7 0.0 0.0 145.2 24.0 0.0 24.9 59.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -11.4 -11.4 -11.4 -11.4 -11.4 -11.4 -11.4 -11.4 -11.5 -11.8 -11.4 -11.8 -11.4 -11.8 -11.8 -11.8 -11.8 -11.8 -11.8 -11.8 -11.8 -11.9 -12.7 -13.8 -13.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 765 kV 7765 kV 7765 kV 7765 kV 7765 kV 7765 kV 7765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 120 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHIMMAL VICHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARAI MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR (WISH SR) BHADRAWATI BIB BARSUR-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	D/C	0 0 0 0 700 0 424 180 215 972 178 18 0 105 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 1737 1737 17166 657 0 1116 501 47 219 0 274 67 1227 0 WR-NR 1006 0 0 2620 3211 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1 1.5 0.7 0.0 43.9 0.0 0.0 0.0 11.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.45.2 24.0 0.0 24.0 0.0 145.2 24.0 0.0 42.9 55.8 0.0 0.0 128.0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -11.4 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 765 kV 765 kV 7755 kV 7755 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 1400 kV 400 kV 400 kV 50	GWALIOR-AGRA  PHAGI-GWALIOR  JABALPUR-ORAI  GWALIOR-ORAI  GWALIOR-ORAI  CHITORGARH-BANASKANTHA  ZERDA-KANKROLI  ZERDA-KANKROLI  ZERDA-BHIMMAL  YICHAL-RIHAND  RAPP-SHUJALPUR  BHANPURA-RANPUR  BHANPURA-RANPUR  BHANPURA-WORAK  MALANPURA-WORAK  MALANPUR-AURAIYA  GWALIOR-SAWAI MADHOPUR  (With SR)  BHADRAWATI B/B  BARSUR-LSILERU  SOLAPUR-RAICHUR  WARDHA-NIZ-BHANBAD  KOLHAPUR-RHIKODI  PONDA-AMBEWADI  XELDEM-AMBEWADI  Region  ER  ER  ER  ER  ER	DIC DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 0 424 180 215 972 178 18 0 0 105 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 11079 11079 11166 657 0 11116 501 47 219 0 0 274 67 127 0 0 5 0 WR-NR 1006 0 0 26520 3211 0 0 60 94 WR-SR  NGES Max (MW) 0 0 3227 88	0.0 0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 0.0 1.4 0.0 0.0 0.1 0.0 0.1 0.0 0.0 0.1 1.5 0.7 0.0 0.0 0.0 1.5 1.8 13.1  Min (MW) 0 0 104	27.4 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 0.0 1.0 1.7 2.0 0.0 0.0 0.0 1.0 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -0.8 -0.8 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -11.2 -1.8 -114.9 -114.9 -114.9 -114.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 765 kV 765 kV 7755 kV 7755 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 1400 kV 400 kV 400 kV 50	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHIMMAL YICHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  UWIN SR) BHADRAWATI BIB BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  REGION  REGION  ER  ER  ER	DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 0 424 180 215 972 178 18 0 0 105 68 0 0 0 0 0 0 821 0 0 0 0 0 821 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 11079 1106 657 0 11116 551 47 219 0 274 67 127 0 5 0 WR-NR 1006 0 0 2820 3211 0 0 60 94 WR-SR  WS-SR  WS-SR	0.0 0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 22.6 0.0 0.1 0.0 0.1 1.5 0.7 0.0 43.9 0.0 0.0 0.0 11.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	27.4 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.0 0.6 1.0 1.7 0.0 0.0 0.0 1.0 1.7 2.0 0.0 0.0 0.0 1.0 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.4 -0.0 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -1.2 -1.8 -114.9 -1.9 -1.9 -1.9 -1.9 -1.14 -1.14 -1.14 -1.14 -1.14 -1.15 -1.15 -1.14 -1.15 -1
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 765 kV 765 kV 7755 kV 7755 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 1400 kV 400 kV 400 kV 50	GWALIOR-AGRA  PHAGI-GWALIOR  JABALPUR-ORAI  GWALIOR-ORAI  GWALIOR-ORAI  CHITORGARH-BANASKANTHA  ZERDA-KANKROLI  ZERDA-KANKROLI  ZERDA-BHIMMAL  YICHAL-RIHAND  RAPP-SHUJALPUR  BHANPURA-RANPUR  BHANPURA-RANPUR  BHANPURA-WORAK  MALANPURA-WORAK  MALANPUR-AURAIYA  GWALIOR-SAWAI MADHOPUR  (With SR)  BHADRAWATI B/B  BARSUR-LSILERU  SOLAPUR-RAICHUR  WARDHA-NIZ-BHANBAD  KOLHAPUR-RHIKODI  PONDA-AMBEWADI  XELDEM-AMBEWADI  Region  ER  ER  ER  ER  ER	D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 700 0 424 180 215 972 178 18 0 0 105 68 0 0 0 0 821 0 0 0 821 0 0 0 821 0 0 0 821 0 1 0 0 821 0 1 0 0 0 821 0 0 0 0 821 0 0 0 0 821 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 11079 11079 11166 657 0 11116 501 47 219 0 0 274 67 127 0 0 5 0 WR-NR 1006 0 0 26520 3211 0 0 60 94 WR-SR  NGES Max (MW) 0 0 3227 88	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 0.0 1.0 1.7 2.0 0.0 0.0 0.0 1.0 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-26.7 -27.4 -19.1 -19.2 -19.2 -10.2 -22.7 -1.2 -1.4 -0.0 -0.8 -0.8 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -11.2 -1.8 -114.9 -114.9 -114.9 -114.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 765 kV 765 kV 7755 kV 7755 kV 765 kV 765 kV 765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 1400 kV 400 kV 400 kV 50	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (Wish SR) BHADRAWATI BI'B BHADRAWATI BI'B BHADRAWATI BI'B GRABUR-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI REGION ER ER ER ER ER ER RER NER NER NER	DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 1 80 215 178 18 0 105 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 11079 11079 11166 657 0 11116 501 47 219 0 274 67 1227 0 0 WR-NR 1006 0 2620 3211 0 0 0 WR-SR WR-SR NGES Max (MW) 0 0 327 88	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.7 0.0 145.2 24.0 0.0 145.2 24.0 0.0 128.0  Avg (MW)  -38 98 68 -13 -9	-26.7 -27.4 -19.1 -19.2 -19.2 -19.2 -1.2 -1.4 -0.0 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -1.12 -1.8 -114.9 -114.9 -114.9 -114.9 -114.9 -114.9 -116 -0.3 -0.2 -1.0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 765 kV 765 kV 765 kV 80 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WARAI MEHGAON-AUKAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (WIRIS SR) BHADRAWATI BI'B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZ AMABAD KOLHAPUR-KUMGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER ER ER ER NER NER NER NE	D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 700 0 424 1800 215 972 178 18 0 105 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 1079 1737 1166 657 0 1116 501 47 219 0 274 67 1227 0 0 WR-NR 1006 0 2620 3211 0 0 0 WR-SR WR-SR WR-SR 48 20 18	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 0.0 1.4 0.0 0.0 0.1 0.0 0.1 0.0 0.0 1.5 0.7 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.7 0.0 0.0 145.2 24.0 0.0 42.9 59.8 0.0 1.2 0.0 128.0  Avg (MW) 0 -336 98 68 -13 -9	-26.7 -27.4 -19.1 -19.2 -19.2 -1.2 -1.4 -0.0 -0.5 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -1.12 -1.8 -114.9 -114.9 -114.9 -114.9 -114.9 -115.9 -1.0 -1.5 -1.6 -0.3 -0.2 -1.0 -1.5
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 765 kV 765 kV 765 kV 80 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (Wish SR) BHADRAWATI BI'B BHADRAWATI BI'B BHADRAWATI BI'B GRABUR-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI REGION ER ER ER ER ER ER RER NER NER NER	DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 0 424 1800 215 972 178 18 0 105 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 11079 11079 11166 657 0 11116 501 47 219 0 274 67 1227 0 0 WR-NR 1006 0 2620 3211 0 0 0 WR-SR WR-SR NGES Max (MW) 0 0 327 88	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.7 0.0 145.2 24.0 0.0 145.2 24.0 0.0 128.0  Avg (MW)  -38 98 68 -13 -9	-26.7 -27.4 -19.1 -19.2 -19.2 -19.2 -1.2 -1.4 -0.0 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -1.12 -1.8 -114.9 -114.9 -114.9 -114.9 -114.9 -114.9 -116 -0.3 -0.2 -1.0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Import 1 2 3 4 5 6 7	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 765 kV 765 kV 765 kV 80 kV	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WARAI MEHGAON-AUKAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (WIRIS SR) BHADRAWATI BI'B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZ AMABAD KOLHAPUR-KUMGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER ER ER ER NER NER NER NE	DIC DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 0 424 180 215 972 178 18 0 0 105 68 0 0 0 0 0 0 0 821 0 0 0 0 0 821 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 1079 1737 1166 657 0 1116 501 47 219 0 274 67 1227 0 0 WR-NR 1006 0 2620 3211 0 0 0 WR-SR WR-SR WR-SR 48 20 18	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 0.0 1.4 0.0 0.0 0.1 0.0 0.1 0.0 0.0 1.5 0.7 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.7 0.0 0.0 145.2 24.0 0.0 42.9 59.8 0.0 1.2 0.0 128.0  Avg (MW) 0 -336 98 68 -13 -9	-26.7 -27.4 -19.1 -19.2 -19.2 -1.2 -1.4 -0.0 -0.5 -0.6 -0.9 -1.7 -1.5 -0.7 -0.0 -101.3 -24.0 -0.0 -42.9 -59.8 -11.4 -0.0 -1.12 -1.8 -114.9 -114.9 -114.9 -114.9 -114.9 -115.9 -1.0 -1.5 -1.6 -0.3 -0.2 -1.0 -1.5
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	765 kV 765 kV 775 kV 775 kV 775 kV 775 kV 775 kV 775 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 775 kV 400 kV 818 kV 81	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-ARNPUR BHANPUR-ARNPUR BHANPUR-AWANTAI GWALIOR-SAWAI MADHOPUR (With SR) BHANPUR-AWANTAI BHANPUR-AWANTAI BHANPUR-AWANTAI GWALIOR-SAWAI MADHOPUR OWALIOR-SAWAI MADHOPUR CWITT SAWAI MADHOPUR BHADRAWATI BIB BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKONI PONDA-AMBEWADI  REGION ER ER ER ER NER NER NER NER NER NER RE ER	DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 1 80 215 972 178 18 0 105 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 11737 1166 657 0 1116 501 47 219 0 274 67 127 0 0 WR-NR 1006 0 0 2620 3211 0 0 94 WR-SR WR-SR Max (MW) 0 3277 88 20 18 0 -190 -278	0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.1 0.0 0.1 1.5 0.7 0.0 0.0 1.5 0.7 0.0 0.0 1.1 1.5 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.7 0.0 0.0 145.2 24.0 0.0 145.2 24.0 0.0 145.2 24.0 0.0 128.0  Avg (MW) 0 -38 98 68 -13 -9 0 -61 -261	-26.7 -27.4 -19.1 -19.2 -19.2 -1.2 -1.4 -0.0 -0.9 -1.7 -1.5 -0.0 -101.3 -24.0 -0.0 -1.17 -1.18 -11.4 -0.0 -1.5 -1.5 -1.6 -1.1.6 -1.1.6 -1.1.6 -1.1.6 -1.1.8 -1.1.8 -1.1.9 -1.1.8 -1.1.9 -1.1.9 -1.1.9 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 765 kV 765 kV 765 kV 80 kV	GWALLOR-AGRA PHAGI-GWALLOR JABALPUR-ORAI GWALLOR-ORAI GWALLOR-ORAI GWALLOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAMD RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WANTA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALLOR-SAWAI MADHOPUR  I (Winh SR) BHADRAWATI B/B BARSUR-I-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI  Region  ER  ER  ER  ER  NER  NER  NER  NER  N	DIC DIC DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 1 0 424 180 215 972 178 18 0 105 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 11079 1737 11166 657 0 0 11116 501 47 219 0 274 67 127 0 0 WR-NR 1006 0 0 2620 3211 0 0 0 94 WR-SR WR-SR WR-SR 488 20 18	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.1 1.5 0.7 0.0 0.0 1.5 0.7 0.0 0.0 1.1 1.5 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.2 24.0 0.0 145.2 24.0 0.0 128.0  Avg (MW) 0 -38 68 -13 -9 0 -61	-26.7 -27.4 -19.1 -19.2 -19.2 -1.2 -1.4 -0.0 -0.5 -0.6 -0.9 -1.7 -1.5 -0.0 -101.3 -24.0 -0.0 -1.1.4 -0.0 -1.1.5 -1.1.5 -1.1.8 -114.9 -1.1.8 -1.1.9 -1.1.8 -1.1.9 -1.1.8 -1.1.9 -1.1.8 -1.1.9 -1.1.8 -1.1.9 -1.1.8 -1.1.9 -1.1.8 -1.1.9 -1.1.8 -1.1.8 -1.1.9 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.1.8 -1.8 -
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	765 kV 765 kV 775 kV 775 kV 775 kV 775 kV 775 kV 775 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 775 kV 400 kV 818 kV 81	GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI GWALIOR-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHIMMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-ARNPUR BHANPUR-ARNPUR BHANPUR-AWANTAI GWALIOR-SAWAI MADHOPUR (With SR) BHANPUR-AWANTAI BHANPUR-AWANTAI BHANPUR-AWANTAI GWALIOR-SAWAI MADHOPUR OWALIOR-SAWAI MADHOPUR CWITT SAWAI MADHOPUR BHADRAWATI BIB BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKONI PONDA-AMBEWADI  REGION ER ER ER ER NER NER NER NER NER NER RE ER	DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	0 0 0 0 700 1 424 180 215 972 178 18 0 105 68 0 0 0 0 0 0 0 821 0 0 0 0 821 0 0 0 0 0 0 0 821 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1079 11737 1166 657 0 1116 501 47 219 0 274 67 127 0 0 WR-NR 1006 0 0 2620 3211 0 0 94 WR-SR WR-SR Max (MW) 0 3277 88 20 18 0 -190 -278	0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.2 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.1 0.0 0.1 1.5 0.7 0.0 0.0 1.5 0.7 0.0 0.0 1.1 1.5 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.4 19.1 19.1 19.2 0.0 0.0 22.7 1.2 0.0 0.0 0.0 0.6 1.0 1.7 0.0 0.0 1.7 0.0 0.0 145.2 24.0 0.0 145.2 24.0 0.0 145.2 24.0 0.0 128.0  Avg (MW) 0 -38 98 68 -13 -9 0 -61 -261	-26.7 -27.4 -19.1 -19.2 -19.2 -1.2 -1.4 -0.0 -0.9 -1.7 -1.5 -0.0 -101.3 -24.0 -0.0 -1.17 -1.18 -11.4 -0.0 -1.5 -1.5 -1.6 -1.1.6 -1.1.6 -1.1.6 -1.1.6 -1.1.8 -1.1.8 -1.1.9 -1.1.8 -1.1.9 -1.1.9 -1.1.9 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0 -1.1.0