

# National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

# POWER SYSTEM OPËRATION 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: 01<sup>st</sup> Apr 2021

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

- 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 31.03.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-मार्च-2021 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 31<sup>st</sup> March 2021, is available at the NLDC website.

धन्यवाद.

### पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day A. Power Supply Position at All India and Regional level Date of Reporting: 01-Apr-2021 NR WR SR ER NER TOTAL Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs) 41860 48327 2108 Peak Shortage (MW) 1080 O 180 1260 Energy Met (MU) 925 1321 1232 483 37 3998 Hydro Gen (MU) 116 43 69 34 6 267 Wind Gen (MU) Solar Gen (MU)\* 197 5.03 0.13 53.01 39.61 112.66 210 Energy Shortage (MU) 7.60 0.00 0.00 0.00 4.54 12.14 Maximum Demand Met During the Day (MW) (From NLDC SCADA) 57414 47630 57987 23636 2335 175489 Time Of Maximum Demand Met (From NLDC SCADA) 19:35 10:53 19:12 10:55 B. Frequency Profile (%) < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 Region All India 0.040 0.00 0.00 68.27 C. Power Supply Position in States Max.Demand Energy Met )D(+)/UD(-Drawal Max OD Shortage during Energy Region States Met during the maximu Schedule (MU) (MU) (MW) (MU) dav(MW) Demand(MW) (MU) 126.4 159 Punjab -1.0 Haryana 5967 112.8 74.0 0.3 255 0.00 Rajasthan 9973 203.4 7.3 0.9 662 0.00 3570 17521 Delhi 58.3 NR 295.3 294 UP 0 115.0 -4.7 0.00 Uttarakhand 1716 28.1 HP 1518 0 29.1 20.9 0.5 168 0.00 J&K(UT) & Ladakh(UT) 2485 400 47.8 39.1 7.60 -1.5 362 Chandigarh 181 3.4 0.0 18 0.00 Chhattisgarh 4533 0 108.1 49.2 -0.6 206 0.00 Gujarat 18183 392.0 118.6 0.00 219.0 546.1 MP 10701 108.1 -1.9 582 0.00 wr Maharashtra 25270 0 188.7 -2.5 892 0.00 Goa 552 319 0 12.2 12.2 -0.5 0.00 24 35 DD 0 7.2 6.8 0.4 0.00DNH 806 18.7 18.7 0.00 AMNSIL 838 17.4 1.2 1.0 311 0.00 118.7 Andhra Pradesh 11123 0.00 Telangana 13361 278.8 154.6 -0.5 788 0.00 SR 99.5 13948 0 272.2 0.1 610 Karnataka 0.00 60.8 Kerala Tamil Nadu 15975 359.7 218.5 -4.0 862 0.00 421 Puducherry 9.0 85.4 -52.6 Bihar 5401 0 95.5 0.3 343 0.00 DVC 3283 69.2 0.2 436 0.00Jharkhand 1565 28.1 0.00 ER 42.3 Odisha 4815 0 99.0 0.8 418 0.00 West Bengal 9158 1.2 2.2 Sikkim 79 1.2 0.1 0.00 Arunachal Pradesh 2.3 128 -0.3 23 0.01 1 Assam 1335 140 21.2 16.2 0.1 102 4.50 Manipur 188 2.1 0.1 42 0.01 NER 0.00 Meghalaya Mizoram 101 1.0 1.4 -0.4 36 0.01 0.01 Nagaland 107 1.7 1.8 -0.2 19 0.00 D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve) Bhutan Nepal -13.3 Bangladesh -23.0 -1033.0 349.0 -647.9  $E.\ Import/Export\ by\ Regions\ (in\ MU)\ -\ Import(+ve)/Export(-ve);\ OD(+)/UD(-)$ TOTAL WR SR ER NER NR Schedule(MU) Actual(MU) O/D/U/D(MU) 118.8 -279.8 255.3 -97.1 0.0

#### F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5199	13103	4842	1208	1222	25573	41
State Sector	13202	12876	6496	3643	11	36227	59
Total	18401	25978	11338	4851	1233	61801	100
A VIIII	10401	23710	11330	7031	1233	01001	100

#### G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	537	1357	613	569	11	3086	75
Lignite	22	11	45	0	0	78	2
Hydro	116	43	69	34	6	268	7
Nuclear	27	25	41	0	0	93	2
Gas, Naptha & Diesel	27	46	15	0	24	112	3
RES (Wind, Solar, Biomass & Others)	115	136	214	5	0	470	11
Total	844	1617	997	608	41	4107	100
							i
Share of RES in total generation (%)	13.62	8.41	21.44	0.83	0.32	11.44	
Share of Non-foscil fuel (Hydro Nuclear and DES) in total generation(%)	20.52	12.62	22.47	C 10	14.61	20.22	I

1.077

#### H. All India Demand Diversity Factor Based on Regional Max Demands

Based on State Max Demands	1.116
The state of the s	

<sup>\*</sup>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: 01-Apr-2021

						Date of Reporting:	01-Apr-2021
Sl Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (			1			1	
1 HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2 HVDC	PUSAULI B/B	- :	0	248	0.0	5.9	-5.9
3 765 kV 4 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	2	134 59	530 232	0.0	7.2 2.5	-7.2 -2.5
5 765 kV	GAYA-BALIA	i	0	330	0.0	5.2	-5.2
6 400 kV	PUSAULI-VARANASI	11	0	214	0.0	4.2	-4.2
7 400 kV 8 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1	0 490	99 422	0.0	1.7 1.0	-1.7 -1.0
9 400 KV	PATNA-BALIA	4	3	804	0.0	13.0	-13.0
10 400 kV	BIHARSHARIFF-BALIA	2	267	202	0.0	0.6	-0.6
11 400 kV	MOTIHARI-GORAKHPUR	2	69	269	0.0	3.3	-3.3
12 400 kV 13 220 kV	BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI	2	142 75	194 120	0.0	2.0 1.0	-2.0 -1.0
14 132 kV	SONE NAGAR-RIHAND	i	0	0	0.0	0.0	0.0
15 132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
16 132 kV	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	0	0	0.0	0.0 0.0	0.0
17 132 kV	KARMANASA-CHANDAULI	1	0	ER-NR	0.0	47.6	0.0 -47.3
Import/Export of ER (	(With WR)				OID .		7710
1 765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1589	0	26.0	0.0	26.0
2 765 kV	NEW RANCHI-DHARAMJAIGARH	2	681	486	4.1	0.0	4.1
3 765 kV	JHARSUGUDA-DURG	2	22	198	0.0	1.9	-1.9
4 400 kV	JHARSUGUDA-RAIGARH	4	0	377	0.0	4.5	-4.5
5 400 kV	RANCHI-SIPAT	2	205	201	0.3	0.0	0.3
6 220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	1.8	-1.8
7 220 kV	BUDHIPADAR-KORBA	2	169	0	2.7	0.0	2.7
Import/Eyeout of ED	(With SD)			ER-WR	33.1	8.2	25.0
Import/Export of ER (	JEYPORE-GAZUWAKA B/B	2	0	406	0.0	8.6	-8.6
2 HVDC	TALCHER-KOLAR BIPOLE	2	0	2003	0.0	47.5	-47.5
3 765 kV	ANGUL-SRIKAKULAM	2	0	3115	0.0	65.1	-65.1
4 400 kV 5 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	1	0	988	0.0	5.2	-5.2 0.0
				ER-SR	0.0	121.3	-121.3
Import/Export of ER (							
1 400 kV	BINAGURI-BONGAIGAON	2	247	1	3.0	0.0	3.0
2 400 kV 3 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	423 61	0	5.0 0.8	0.0	5.0 0.8
		• •		ER-NER	8.8	0.0	8.8
Import/Export of NER	(With NR)		4				
1 HVDC	BISWANATH CHARIALI-AGRA	2	468	0 NER-NR	11.6 11.6	0.0	11.6 11.6
Import/Export of WR	(With NR)				11.0	0.0	11.0
1 HVDC	CHAMPA-KURUKSHETRA	2	0	1802	0.0	33.2	-33.2
2 HVDC 3 HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	239	0	6.0	0.0	6.0
4 765 kV	GWALIOR-AGRA	2	0	1171 2245	0.0	17.2 35.7	-17.2 -35.7
5 765 kV	PHAGI-GWALIOR	2	35	746	0.0	8.1	-8.1
6 765 kV	JABALPUR-ORAI	2	328	715	0.0	18.8	-18.8
7 765 kV 8 765 kV	GWALIOR-ORAI SATNA-ORAI	1	496	12 1280	8.1 0.0	0.0 23.5	8.1 -23.5
9 765 kV	CHITORGARH-BANASKANTHA	2	952	0	12.1	0.0	12.1
10 400 kV	ZERDA-KANKROLI	1	303	0	5.2	0.0	5.2
11 400 kV	ZERDA -BHINMAL	1	538	0	8.8	0.0	8.8
12 400 kV 13 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	968 334	260	21.7 1.8	0.0	21.7 1.8
14 220 kV	BHANPURA-RANPUR	1	0	12	0.1	0.4	-0.3
15 220 kV	BHANPURA-MORAK	1	0	30	0.4	0.2	0.2
16 220 kV	MEHGAON-AURAIYA	1	124 90	0	0.8	0.0	0.8
17 220 kV 18 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	0	0	1.4 0.0	0.0	1.4 0.0
19 132 kV	RAJGHAT-LALITPUR	2	Ö	0	0.0	0.0	0.0
Y 4/5 4 63275	ard on			WR-NR	66.3	137.1	-70.8
Import/Export of WR 1 HVDC							
			0	1026	0.0	24.1	24.1
2 HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	0	1026 1502	0.0	24.1 59.4	-24.1 -59.4
2 HVDC 3 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0	1502 2069	0.0 0.0	59.4 33.3	-59.4 -33.3
2 HVDC 3 765 kV 4 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD		0 0	1502 2069 3440	0.0 0.0 0.0	59.4 33.3 64.0	-59.4 -33.3 -64.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 2 2 2	0 0 0 936	1502 2069 3440 0	0.0 0.0 0.0 15.3	59.4 33.3 64.0 0.0	-59.4 -33.3 -64.0 15.3
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2	0 0 0 936 0	1502 2069 3440 0 0	0.0 0.0 0.0	59.4 33.3 64.0 0.0 0.0	-59.4 -33.3 -64.0 15.3 0.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV	BHADRAWATI B/B BHADRAWATI B/B SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2 2 2 2 2	0 0 0 936	1502 2069 3440 0 0 0 91	0.0 0.0 0.0 15.3 0.0 0.0	59.4 33.3 64.0 0.0 0.0 0.0 0.0	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 1 1	0 0 0 936 0 0	1502 2069 3440 0 0 0 91 WR-SR	0.0 0.0 0.0 15.3 0.0	59.4 33.3 64.0 0.0 0.0	-59.4 -33.3 -64.0 15.3 0.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 2 1 1 1 INTER	0 0 0 936 0 0 0	1502 2069 3440 0 0 0 0 91 WR-SR	0.0 0.0 0.0 15.3 0.0 0.0 1.6	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6 -163.9
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 2 2 1 1 1 1 INTER	0 0 0 936 0 0 0 NATIONAL EXCHA!	1502 2069 3440 0 0 0 91 WR-SR	0.0 0.0 0.0 15.3 0.0 0.0	59.4 33.3 64.0 0.0 0.0 0.0 0.0	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6 -163.9 Energy Exchange
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 2 2 1 1 1 1 INTER Line	0 0 0 936 0 0 0 NATIONAL EXCHAI Name	1502 2069 34440 0 0 91 WR-SR NGES	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8 Avg (MW)	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6 -163.9 Energy Exchange (MU)
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGECHI Le, ALIPURDUAR RE	0 0 936 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 0 91 WR-SR	0.0 0.0 0.0 15.3 0.0 0.0 1.6	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6 -163.9 Energy Exchange
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 2 2 2 1 1 1 INTER  INTER  400kV MANGDECHI- i.e. ALIPURDUAR RE MANGDECHI-HEP / 400kV TALA-BINAGI	0 0 936 0 0 936 0 0 0 0 NATIONAL EXCHA Name U-ALIPURDUAR 1&2 CEIPT (from 18 1804 W) USB 11,24 (& 400K)	1502 2069 34440 0 0 91 WR-SR NGES	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8 Avg (MW)	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6 -163.9 Energy Exchange (MU)
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUA R R MANGDECHH HEP P 400kV TALA-BINAGI MALBASE - BINAGI	0 0 0 936 0 0 0 0 0 NATIONAL EXCHA Name UU-ALIPURDUAR 1&2 CEIPT (from p=180MW) URI 1,2,4 (& 400kV   RR) i.e. BINAGURI	1502 2069 34440 0 0 91 WR-SR NGES	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8 Avg (MW)	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6 -163.9 Energy Exchange (MU)
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER LINE LINE LONG LONG LONG LONG LONG LONG LONG LONG	0 0 0 936 936 0 0 0 NATIONAL EXCHA Name IU-ALIPURDUAR 182 CEIPT (from 15 IRMW) UEI 1,2,4 (8-400K) URD 16.5 BINAGURI A HEP (6+170MW)	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW)	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8  Avg (MW)	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6 -163.9 Energy Exchange (MU)
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 2 2 1 1 INTER LINE LINE LONE LONE LONE LONE LONE LONE LONE LO	0 0 0 0 936 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW)	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8  Avg (MW)	-59.4 -33.3 -64.0 15.3 0.0 0.0 1.6 -163.9 Energy Exchange (MU)
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARIP-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KURGI KOLHAPUR-KURGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RE MANGDECHI i.e. ALIPURDUAR RE MANGDECHI III.E. BINAGI MALBASE BINAGI RECEIPT (from TAL	0 0 0 0 936 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW)	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 180.8 Avg (MW)	-59.4 -33.3 -64.0 15.3 -0.0 0.0 1.6 -163.9 Energy Exchange (MU) 2.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  Region  ER  ER  ER	2 2 2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI 60kALIPURGDECHI FAMORETALA-BINAG MALBASE - BINAGE MALBASE - BIN	0 0 0 0 936 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW) 190 93	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8 Avg (MW) 81	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -1.6 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARIP-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KURGI KOLHAPUR-KURGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 2 2 1 1 INTER LINE LINE LONE LONE LONE LONE LONE LONE LONE LO	0 0 0 0 936 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW)	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 180.8 Avg (MW)	-59.4 -33.3 -64.0 15.3 -0.0 0.0 1.6 -163.9 Energy Exchange (MU) 2.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARIP-UGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI- ic. ALIPURDUAR RE MANGBECHI- ic. ALIPURDUAR RE 20kV CHUHABIR MALBASE - BINAGU RECEIPT (from CHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU	0 0 0 0 936 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR Max (MW) 190 93	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -1.63.9  Energy Exchange (MU) -2.0 -1.8 -0.6
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  Region  ER  ER  ER	2 2 2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI 60kALIPURGDECHI FAMORETALA-BINAG MALBASE - BINAGE MALBASE - BIN	0 0 0 0 936 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW) 190 93	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 180.8 Avg (MW) 81	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -1.6 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH te. ALIPURDUAR RE MANGBECHU HEP- 400kV TALA-BINAGE MALBASE - BINACH RECEIPT (from TAL ZONV CHUKHA-BIR MALBASE - BIRACH ISZONV CHUKHA-BIR MALBASH ISZONV CHUKHA-BI	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 34440 0 0 0 91 WR-SR NGES Max (MW) 190 93 15	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW) 0 58	59.4 33.3 64.0 9.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -1.6 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARIP-UGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI- ic. ALIPURDUAR RE MANGBECHI- ic. ALIPURDUAR RE 20kV CHUHABIR MALBASE - BINAGU RECEIPT (from CHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU	0 0 0 0 9.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR Max (MW) 190 93	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW)	59.4 33.3 64.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -1.63.9  Energy Exchange (MU) -2.0 -1.8 -0.6
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER	2 2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI 400kV MANGDECHI 400kV TALA-BINAG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BIRPAR RECEIPT (from TAL 220kV CHUKHIA-BIR RECEIPT (from TAL 23kV-GEYLEGPH 132kV Motanga-Rang 132kV-TANAKPUR(! MAHENDRANAGAR	0 0 0 9.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW) 190 93 15	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW) 0 58	59.4 33.3 64.0 9.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER	2 2 2 2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI 400kV MANGDECHI HEP 400kV TALA-BINAGI MALBASE - BINAGI MALBASE - BINAGI MALBASE - BINAGI MALBASE - BIRPAR RECEIPT (from TAL 220kV CHUKHIA-BIR RECEIPT (from TAL 132kV-GEYLEGPHL 132kV Motanga-Rang 132kV-TANAKPUR(i	0 0 0 9.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 34440 0 0 0 91 WR-SR NGES Max (MW) 190 93 15	0.0 0.0 0.0 15.3 0.0 0.0 1.6 16.9 Min (MW) 0 58	59.4 33.3 64.0 9.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -1.6 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARIP-UGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  ER  ER  ER  NER  NER	2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU BEP- 400kV TALA-BINAGI MALBASE - BINAGU RECEIPT (from 1 bit MALBASE - BINAGU MALBASE	0 0 0 9.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW) 190 93 15	0.0 0.0 0.0 15.3 0.0 0.0 15.3 0.0 0.0 16.9  Min (MW)  0 2 0 0 0	59.4 33.3 64.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26 13	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHADRAWATI B/B RAIGARIP-UGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  ER  ER  ER  NER  NER	2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU BEP- 400kV TALA-BINAGI MALBASE - BINAGU RECEIPT (from 1 bit MALBASE - BINAGU MALBASE	0 0 0 936 0 0 0 936 0 0 0 0 NATIONAL EXCHA Name III-ALIPURDUAR 182 CZEIPT (from 181 182,168 400kV IRI) i.e. BINAGURI JEH 182,168 400kV A 169 BIRRAR KHA HEP 4*84MW) - SALAKATI iii	1502 2069 3440 0 0 0 91 WR-SR NGES Max (MW) 190 93 15	0.0 0.0 0.0 15.3 0.0 0.0 15.3 0.0 0.0 16.9  Min (MW)  0 2 0 0 0	59.4 33.3 64.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26 13	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV State	BHADRAWATI BB RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  Region  ER  ER  ER  NER  NER	2 2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI 400kV MANGDECHI 400kV MANGDECHI 400kV TANKADECHI 400kV TANKAD	0 0 0 936 0 0 0 936 0 0 0 0 NATIONAL EXCHA Name III-ALIPURDUAR 182 CZEIPT (from 181 182,168 400kV IRI) i.e. BINAGURI JEH 182,168 400kV A 169 BIRRAR KHA HEP 4*84MW) - SALAKATI iii	1502 2069 34440 0 0 0 91 91 WR-SR NGES Max (MW) 190 93 15 27 24	0.0 0.0 0.0 0.0 0.0 15.3 0.0 0.0 0.0 1.6 16.9  Min (MW)	59.4 33.3 64.0 9.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26 13 2	-59.4 -33.3 -64.0 -16.3 -9.0 -9.0 -16.3 -16.3.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0 -0.0 -7.8
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV State	BHADRAWATI BB RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  Region  ER  ER  ER  NER  NER	2 2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI 400kV MANGDECHI 400kV MANGDECHI 400kV TANKADECHI 400kV TANKAD	0 0 0 9.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 34440 0 0 0 91 91 WR-SR NGES Max (MW) 190 93 15 27 24	0.0 0.0 0.0 0.0 0.0 15.3 0.0 0.0 0.0 1.6 16.9  Min (MW)	59.4 33.3 64.0 9.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26 13 2	-59.4 -33.3 -64.0 -15.3 -0.0 -0.0 -1.6 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0 -0.0 -7.8
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV State	BHADRAWATI BB RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI REGION ER	2 2 2 2 2 2 2 2 1 1 INTER Line 400KV MANGDECHI 400KV MALABINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BIRAGR MALBASE - BIRAGR RECEIPT (from TALL 220KV CHUKHIA-BIR RECEIPT (from TALL 132KV-GEYLEGPHL 132KV-MUZAFFARF DC 132KV-BIHAR - NEP	0 0 0 9.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1502 2069 3440 0 0 0 91 WR-SR  NGES  Max (MW)  190  93  15  27  24  0  -338	0.0 0.0 0.0 0.0 15.3 0.0 1.6 1.6 16.9  Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 0.0 180.8  Avg (MW)  81  75  -26  13  2  0  -326	-59.4 -33.3 -64.0 -55.3 -0.0 -0.0 -1.6 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0 -7.8 -5.5
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV State  BHUTAN	BHADRAWATI BB RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-RUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  Region  ER  ER  ER  NER  NER  NER  ER  ER  ER	2 2 2 2 2 2 2 1 1 INTER  LINE  400kV ALMORDECHE  400kV TALABNAG  MALOSECHU HEP  400kV TALABNAG  MALOSECHU HEP  MANGECHU HEP  MANGECHU HEP  MALBASE HINAG  MALEASIS HINAG  MALE	0 0 0 9.36 0 0 0 0 0 0 NATIONAL EXCHA Name (U-ALIPURDUAR 182 CEIPT (from 15 180MW) URI 12.4 (8-400KV IRI) i.e. BINAGURI A HEP (6-110MW) PARA 182 (8-206KV A LEB 184 KHA HEP 4-84MW) (- SALAKATI in  WH) - (PG)	1502 2069 3440 0 0 0 91 91 WR-SR  NGES  Max (MW) 190 93 15 27 24 0 -338 -310	0.0 0.0 0.0 0.0 0.0 15.3 0.0 0.0 0.0 1.6 16.9  Min (MW)	59.4 33.3 64.0 9.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26 13 2 0 -326 -228	-59.4 -33.3 -64.0 -3.5 -5.3 -0.0 -0.0 -1.6 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0 -0.0 -7.8 -5.5 -20.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV State	BHADRAWATI BB RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI REGION ER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic, ALIPURDUAR RE MANGDECHU BEP- 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINA	0 0 0 9.36 0 0 0 0 0 0 NATIONAL EXCHA Name (U-ALIPURDUAR 182 CEIPT (from 15 180MW) URI 12.4 (8-400KV IRI) i.e. BINAGURI A HEP (6-110MW) PARA 182 (8-206KV A LEB 184 KHA HEP 4-84MW) (- SALAKATI in  WH) - (PG)	1502 2069 3440 0 0 0 91 WR-SR  NGES  Max (MW)  190  93  15  27  24  0  -338	0.0 0.0 0.0 0.0 15.3 0.0 1.6 1.6 16.9  Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 0.0 180.8  Avg (MW)  81  75  -26  13  2  0  -326	-59.4 -33.3 -64.0 -55.3 -0.0 -0.0 -1.6 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0 -7.8 -5.5
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV State  BHUTAN	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUIGGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER  NER  NER  NER  ER	2 2 2 2 2 2 2 1 1 INTER  LINE  400kV ALMORDECHE  400kV TALABNAG  MALOSECHU HEP  400kV TALABNAG  MALOSECHU HEP  MANGECHU HEP  MANGECHU HEP  MALBASE HINAG  MALEASIS HINAG  MALE	0 0 0 936 0 0 0 936 0 0 0 NATIONAL EXCHA Name RU-ALIPURDUAR 182 CEIPT (from 18 IRAN 18	1502 2069 3440 0 0 0 91 WR-SR  NGES  Max (MW)  190  93  15  27  24  0  -338  -310  -864	0.0 0.0 0.0 0.0 0.0 15.3 0.0 1.6 1.6 16.9  Min (MW)	59.4 33.3 64.0 0.0 0.0 0.0 0.0 0.0 180.8  Avg (MW)  81  75  -26  13  2  0  -326  -228  -832  -63	-59.4 -33.3 -64.0 -3.3 -64.0 -15.3 -0.0 -1.6 -163.9 -163.9 -1.8 -0.6 -0.3 -0.0 -7.8 -5.5 -20.0
2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV State  BHUTAN	BHADRAWATI BB RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-RUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  Region  ER  ER  ER  NER  NER  NER  ER  ER  ER	2 2 2 2 2 2 2 1 1 1 INTER  LINE 400kV ALMORDECH IE 400kV ALMORDECH IE 400kV TALMORDECH IE 132KV-GEYLEGPH 132KV-GEYLEGPH 132KV-GEYLEGPH 132KV-TANAKPURC MAHENDRANAGAR 400KV-MUZAFFARF DC 132KV-BIHAR - NEP BHERAMARA HVDC 132KV-SURAJMANI COMILLA(BANGLA)	0 0 0 0 936 0 0 936 0 0 0 0 NATIONAL EXCHA Name  IIIALIPURDUAR 18-2 CZEIPT (from 18 1804 18 1804 18 18 18 18 18 18 18 18 18 18 18 18 18 1	1502 2069 3440 0 0 0 91 91 WR-SR  NGES  Max (MW) 190 93 15 27 24 0 -338 -310	0.0 0.0 0.0 0.0 0.0 15.3 0.0 0.0 0.0 1.6 16.9  Min (MW)	59.4 33.3 64.0 9.0 9.0 9.0 9.0 9.0 180.8  Avg (MW) 81 75 -26 13 2 0 -326 -228	-59.4 -33.3 -64.0 -64.0 -15.3 -0.0 -0.0 -16.3 -163.9  Energy Exchange (MU) -2.0 -1.8 -0.6 -0.3 -0.0 -7.8 -5.5 -20.0