

PERFORMANCE OVERVIEW

Distribution Loss

WEST BENGAL STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED			
STATEMENT OF TECHNICAL PARTICULARS			
Sl. No.	Particulars	2022-23	2021-22
1.0	Installed Generating Capacity at the year end (MW)		
	(a) Hydel (Excluding PPSP)	175.100	175.100
	(b) Diesel	0.000	0.820
	(c) PPSP	900.00	900.00
	(d) Solar	123.940	90.000
	Total	1199.040	1165.920
2.0	Generation in MKWH		
	(a) Hydel (Excluding PPSP)	581.699	552.128
	(b) PPSP	1578.056	1183.400
	(c) Solar	138.297	91.849
	Total	2298.052	1827.377
3.0	Auxiliary Consumption (MKWH)		
	(a) Hydel (Excluding PPSP)	5.817	5.521
	(b) PPSP (including Transformation loss)	26.827	20.118
	Total	32.644	25.639
4.0	Net Generation in MKWH (3-4)		
	(a) Hydel (Excluding PPSP)	575.882	546.607
	(b) PPSP	1551.229	1163.282
	(c) Solar	138.297	91.849
	Total	2265.408	1801.738
5.0	Energy Injected to WBSETCL System from Power Generation	2099.102	1677.061
6.0	Energy Injected to WBSEDCL System from Power Generation	166.306	124.677
	Total Generation :	2265.408	1801.738
7.0	Energy Injected to WBSETCL System from Power Purchase		
7.1	Central Sectors (MKWH)		
	NTPC	6871.153	5893.968
	NHPC (Rangit + Teesta V + TLDPIII + TLDPIV)	2060.381	2030.211
	PTC (Jhabua)	0.000	463.981
	PTC (Chukha & Kurichhu)	514.585	605.432
	PTC (Tala HEP)	908.533	1058.951
	PTC - J & K	0.000	172.013
	PTC (Jaiprakash)	0.000	486.912

ANNUAL REPORT & ACCOUNTS 2022-23

Sl. No.	Particulars	2022-23	2021-22
	PTC (Mangdechhu)	866.417	899.415
	TPTCL (Dagachu)	556.260	586.707
	NVVNL Bundle Power (Solar & Thermal)	366.412	350.451
	DVC Grid Supply (Mejia-V, RTPS)	356.026	960.939
	Kanti Bijli	2.910	219.983
	Sub Total	12502.677	13728.962
7.2	State Sectors (MKWH)		
	WBPDC	29035.934	27484.272
	WBPDC (DPL Unit)	2401.994	2272.566
	Sub Total	31437.927	29756.838
7.3	Short Term (MKWH)		
	Hindustan Power Exchange Limited	76.450	0.000
	Indian Power Exchange Limited	2126.285	831.709
	Power Exchange of India Limited	565.564	4.521
	Swap Power (IN)	90.200	0.000
	Sub Total	2858.499	836.229
7.4	Private Sectors (MKWH)		
	Electrosteel	17.497	16.568
	Neora Hydro	8.308	9.662
	Nippon Power	12.112	13.035
	Sree renuka Sugar	0.000	7.024
	Himadri Chemical	60.620	52.143
	Reshmi Cement	7.486	2.828
	Bengal Energy Limited	253.442	289.676
	APNRL	319.156	721.793
	Hiranmoyee	1692.996	1002.661
	Solitaire	6.842	6.578
	Reshmi Ispat Limited	8.087	8.026
	TPTCL (Mithon Right Bank)	2094.771	2044.548
	Sub Total	4481.317	4174.541
	Total (7.1+7.2+7.3+7.4)	51280.420	48496.571
8.0	Energy Injected to WBSEDCL System from Power Purchase		
8.1	Central Sectors (MKWH)		
	DVC (Radial Mode)	572.496	506.096
	Jharkhand Bijli Vitaran Nigam Ltd.	0.101	0.074

ANNUAL REPORT & ACCOUNTS 2022-23

Sl. No.	Particulars	2022-23	2021-22
	Assam Power Distribution Company Limited	0.863	0.771
	Govt. of Sikkim	0.388	0.424
	Sub Total	573.848	507.364
8.2	Private Sectors (MKWH)		
	CESC (Radial Mode)	5.929	14.201
	Sub Total	5.929	14.201
8.3	Non Conventional Source of Energy		
	WBREDA	0.000	0.000
	Sub Total	0.000	0.000
	Total (8.1+8.2+8.3)	579.777	521.566
9.0	Power Draw under UI mode (UIIN)	451.959	433.202
10.0	Total Power Purchase (7+8+9)	52312.156	49451.339
11.0	Grid Loss (Inter State Grid)	581.895	543.525
12.0	Gross Energy Available WBSETCL System (5+7+9-11)	53249.586	50063.309
13.0	Transmission Loss in WBSETCL System (MU)	1810.486	1702.153
14.0	Transmission Loss in WBSETCL System as a % of (13/12*100)	3.400	3.400
15.0	Gross Energy Available at WBSEDCL boundary from WBSETCL System (12 - 13)	51439.100	48361.157
16.0	Energy Outgo from WBSETCL System		
	Sale to person other licensee & consumer including Transmission loss	4758.250	7688.072
	Sale to Sikkim	46.153	52.005
	Bulk Supply to Licensee from WBSEDCL System (CESE, DPL, RAIL)	1257.286	0.250
	Pumping Power to PPSP including Transmission & Transformation loss	2207.566	1655.475
	Swap Power (out) including Transmission Loss	98.043	0.000
	Energy Outgo under UI mode (UIOUT) including Transmission loss	337.549	333.940
	Transmission Loss for sale to Sikkim & licensee at EHV	45.877	1.839
	Total	8750.724	9731.580
17.0	Net Energy available at WBSEDCL boundary from WBSETCL System (15 - 16)	42688.376	38929.577
18.0	Energy Injected directly to WBSEDCL System (6+8)	746.082	646.243
19.0	Energy Received for Wheeling at 33 KV	144.075	138.937
20.0	Total Energy available in WBSEDCL System (17+18+19)	43578.534	39414.756
21.0	Total Utilisation (MKWH)		
21.1	Bulk Supply to Licensee from Dist. System (DPSC, RAIL)	195.953	26.380

ANNUAL REPORT & ACCOUNTS 2022-23

Sl. No.	Particulars	2022-23	2021-22
21.2	Sale to WBSEDCL own Consumer		
	Centralised & De-Centralised Bulk	12638.113	12337.961
	L&MV	23059.150	20884.594
	Sub Total	35697.263	33222.554
21.3	Units Wheeled	142.668	138.241
21.4	Additional unit allowed for Wheeling	1.407	0.696
21.5	Utilization own premises of WBSEDCL	74.000	73.000
	Total (21.1+21.2+21.3+21.4+21.5)	36111.291	33460.871
22.0	Distribution Loss (MU) (20-21)	7467.243	5953.885
23.0	Distribution Loss as percentage	17.14	15.11

Category wise sales in MU, No. of Consumers & Connected Load (KVA)

Category	Sub Category	MU SOLD						NO OF CONSUMERS						CONNECTED LOAD					
		HV & EHV	Estwhile DPL Area	WBSEDCL	Estwhile DPL Area	L & MV	Grand Total	WBSEDCL	Estwhile DPL Area	WBSEDCL	Estwhile DPL Area	L & MV	Grand Total	WBSEDCL	Estwhile DPL Area	WBSEDCL	Estwhile DPL Area	L & MV	Grand Total
Domestic & Look deep	Commercial	26.13	6.09	14665.34	115.12	14691.47	121.208	49.00	18.00	19524579.00	67215.00	67233	19524528	13462	2273	11493170	147809	11506632	150082
		951.19	42.31	3816.12	29.49	4767.31	71.801	933.00	73.00	2097976.00	9441.00	9514	2098009	430516	23266	3191924	32009	362240.456	55275
	Public Utility	279.58	3.59	40.22	0.64	319.79	4.229	267.00	5.00	11877.00	78.00	83	12144	140125	880	31941	377	172066.0066	1257
	Sports Complex	5.01	0.15	0.00	0.00	5.01	0.155	22.00	1.00	0.00	0.00	22	22	1	9658	150	0	9658	150
	Pvt Educational Institute	42.77	3.84	2.44	0.30	45.21	4.142	68.00	21.00	166.00	9.00	30	234	25552	3090	1526	227	27078.19	3317
Commercial & others	Commercial Plantation	3.22	0.00	2.86	0.00	6.08	0.000	27.00	0.00	1019.00	0.00	0	1046	0	2343	0	5454	0	7797.31
	Construction	21.91	0.26	51.42	0.03	73.33	0.291	41.00	4.00	12376.00	36.00	40	12417	15063	255	79061	220	94123.901	475
	Emergency supply	93.19	0.00	0.00	0.00	93.19	0.000	8.00	0.00	3.00	0.00	0	11	25459	0	234	0	25461.34	0
	Common service for industrial Estate	0.20	0.00	0.029	0.00	0.23	0.000	3.00	0.00	3.000	0.00	0	6	310	0	57	0	367.31	0
	Short term	0.57	0.00	92.00	0.02	92.56	0.015	1.00	0.00	9393.00	3.00	3	9394	100	0	88646	22	88745.79471	22
Irrigation	Total Commercial	1397.63	50.16	4005.085	30.47	5402.72	80.633	1370	104	2132813	9567	9671	2134183	649126	27641	3398612	32855	4047738	60996
	Public Lighting	0.00	0.00	1606.64	9.351	1606.64	9.351	0	0	360173	5	5	360173	0	0	1422878	114	1422877.947	114
	Industrial	7803.89	1976.41	598.62	10.69	984.07	10.690	0	0	30262	155	155	30262	0	0	98575	747	98574.5763	747
	Pumping	353.61	17.07	333.02	0.02	686.63	17.087	346	9	38121	244	333	120148	2253040.5	353868	2011615	6013	4264655.106	359881
	Cold Storage	441.94	0.00	0.00	0.00	441.94	0.000	520	0	0	0	0	520	130575	0	0	0	130575	0
Own Consumers;	MES	128.56	0.00	0.00	0.00	128.56	0.000	42	0	0	0	0	42	32508	0	0	0	32508	0
	Traction	436.61	0.00	0.00	0.00	436.61	0.000	3	0	0	0	0	3	10500	0	0	0	10500	0
	Sub-total (A)	10588.381	2049.73	22888.88	170.27	33477.26	220.000	5767	220	22202659	77187	77407	22208426	3254555	387796	18635687	187587	21890242	575383
	[Previous year]	10450.91	1887.05	20724.23	160.37	31175.14	2047.415	5545	223	21418814	74470	74693	21424359	3399169	354517	17384816	177380	20783987	531897
	Other Licensee																		
Other Licensee	CESC & RAIL	1312.93				1312.93		1					1						
	DPS	140.30				140.30		1					1						
	Sikkim	46.15				46.15		1					1						
	Sub-total (B)	1499.392				1499.39		3					3						
	[Previous year]	78.63				78.63		3					3						
(C) Sale to person other than licensee and consumer	Current Year	4596.469				4596.47													
	[Previous year]	7426.677				7426.677													
	Current Year	94.71				94.71													
	[Previous year]	0.00				0.00													
	(D) Swap Out																		
TOTAL (A+B+C+D)	Current Year	16778.95	2049.73	22888.88	170.27	39667.83	2220.00	5770.00	220.00	22202659	77187	77407	22208429	3254555	387796	18635687	187587	21890242	575383
	[Previous year]	17956.23	1887.05	20724.23	160.37	38680.45	2047.42	5548.00	223.00	21418814	74470	74693	21424362	3399169	354517	17384816	177380	20783987	531897