ComEd®

December 2007 SYSTEM DATA BOOK

[2006 -Year End Data]

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4-30-08 BHP

December 2007 System Data Book
Exelon Energy Delivery
Commonwealth Edison Company

ComEd
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Number of Customers and Area of Service in Square Miles
(As of 12-31-06)

Number of Customers (1)

Residential		3,406,239
Small commercial and industrial		352,618
Large commercial and industrial		1,925
Public authorities		1,069
Street & Highway Lighting		4,776
Electric railroads		2
Wholesale		4
	Total Customers	3,766,633

Area Square Miles (2)

Chicago		310
East Central		400
Northeast		532
Northwest		5,385
Southeast		1,113
Southwest		2,718
West Central		932
	Outside Chicago Total	11,080
	Company Total	11,390

(1) Customer counts per Revenue Analysis Report – year-end December 2006.
(2) Variances in area square miles from previous year's reports are a result of improved geographical information tracking.

Number of Terminals
Supplying 4 kV, 12 kV, 34 kV and 69 kV Systems
2006

SS AND DC's	4kV	12kV	TOTAL
Chicago	109	33	142
East Central	27	32	59
Northeast	75	68	143
Northwest	25	116	141
Southeast	35	44	79
Southwest	27	96	123
West Central	8	86	94
TOTAL	306	475	781

TSS AND TDC's	12kV	34kV	69kV	TOTAL
Chicago	60	2	5	67
East Central	33	6	--	39
Northeast	25	9	--	34
Northwest	21	15	3	39
Southeast	20	5	--	25
Southwest	26	13	--	39
West Central	18	8	--	26
TOTAL	203	58	8	269

For
High Voltage ESS's

69 kV and Above

NORMAL CAPACITY (MVA) (1)

	CN	CS	CE	NE	NW	SE	SW	
2002	30	530	258	433	1,035	687	1,055	4,028
	C	EC	NE	NW	SE	SW	WC	
2003	813	0	440	916	673	1,038	50	3,930
2004	663	0	387	735	673	968	50	3,476
2005	663	0	321	735	673	1,048	50	3,490
2006	622	0	366	735	593	1,010	50	3,416

NON-COINCIDENT LOAD (MVA) (2)

	CN	CS	CE	NE	NW	SE	SW	
2002	32	30	360	149	87	188	438	1,283
	C	EC	NE	NW	SE	SW	WC	
2003	129	0	151	188	181	553	368	1,570
2004	149	0	148	220	176	493	352	1,538
2005	151	0	145	220	170	485	353	1,524
2006	148	0	144	221	160	474	351	1,498

(1) Edison owned transformers only. Capacity shown is based on fan rating (where applicable).

(2) Loads include customer owned capacity.

Comparison of 12 kV & 34 kV
T.S.S. & T.D.C. Load and Capacity (1)
(Inside Chicago)

12 kV NORMAL CAPACITY (MVA)

	CHICAGO NORTH	CHICAGO SOUTH	TOTAL
2002	4,408	2,193	6,601
	CHICAGO		
2003	7,145		7,145
2004	7,330		7,330
2005	7,219		7,219
2006	7,648		7,648

12KV NON-COINCIDENT PEAK LOAD (MVA)

	CHICAGO NORTH	CHICAGO SOUTH	TOTAL
2002	3,536	1,700	5,236
	CHICAGO		
2003	6,602		6,602
2004	6,068		6,068
2005	5,900		5,900
2006	6,443		6,443

12 kV LOAD/CAPACITY RATIO

	CHICAGO NORTH	CHICAGO SOUTH	TOTAL
2002	80%	78%	79%
	CHICAGO		
2003	92%		92%
2004	83%		83%
2005	82%		82%
2006	84%		84%

34 kV NORMAL CAPACITY (MVA)

	CHICAGO	TOTAL
2005	534	534
2006	556	556

34 kV NON-COINCIDENT PEAK LOAD (MVA)

	CHICAGO	TOTAL
2005	340	340
2006	353	353

34 kV LOAD/CAPACITY RATIO

	CHICAGO	TOTAL
2005	64%	64%
2006	63%	63%

Comparison of 12 kV & 34 kV
T.S.S. & T.D.C. Load and Capacity
(Outside Chicago)

12 kV NORMAL CAPACITY (MVA)

	CE	NE	NW	SE	SW		TOTAL
2002	3,400	4,572	1,662	1,932	1,929		13,495
	EC	NE	NW	SE	SW	WC	
2003	3,665	2,422	1,145	1,780	2,020 (1)	1,495	12,527 (1)
2004	3,660	2,417	1,117	1,780	2,071	1,551	12,596
2005	3,720	2,497	1,120	1,780	2,153	1,640	12,910

12 kV NON-COINCIDENT PEAK LOAD (MVA)

	CE	NE	NW	SE	SW		TOTAL
2002	3,207	3,858	1,406	1,639	1,799		11,909
	EC	NE	NW	SE	SW	WC	
2003	3,082	2,100	947	1,651	1,724	1,280	10,784
2004	3,066	2,094	918	1,575	1,848	1,335	10,836
2005	3,113	2,229	931	1,598	1,848	1,371	11,090
2006	3,194	2,317	1,010	1,672	2,069	1,502	11,764

12 kV LOAD/CAPACITY RATIO

	CE	NE	NW	SE	SW		TOTAL
2002	94%	84%	85%	85%	93%		88%
	EC	NE	NW	SE	SW	WC	
2003	84%	87%	83%	93%	85% (1)	86%	86% (1)
2004	84%	87%	82%	88%	89%	86%	86%
2005	84%	89%	83%	89%	86%	84%	86%
2006	83%	89%	84%	90%	84%	82%	85%

34 kV NORMAL CAPACITY (MVA)

	EC	NE	NW	SE	SW	WC	TOTAL
2004	555	885	860	557	1,144	822	4,823
2005	555	892	930	558	1,158	809	4,903
2006	678	941	968	583	1,156	951	5,277

34 kV NON-COINCIDENT PEAK LOAD (MVA)

	EC	NE	NW	SE	SW	WC	TOTAL
2004	501	733	715	443	994	730	4,116
2005	502	733	716	429	1,015	726	4,121
2006	484	759	841	465	1,017	803	4,369

34 kV LOAD/CAPACITY RATIO

	EC	NE	NW	SE	SW	WC	TOTAL
2004	90%	83%	83%	80%	87%	89%	85%
2005	90%	82%	77%	77%	89%	90%	84%
2006	71%	80%	87%	80%	88%	84%	82%

(1) Revised Number

Comparison of 4kV & 12 kV Substation & Distribution Center Loads and Capacity (Inside Chicago)

NORMAL CAPACITY (MVA)

	CHICAGO	CHICAGO NORTH	CHICAGO SOUTH	TOTAL
4 kV				
2002	--	598	446	1,044
2003	1,142	--	--	1,142
2004	1,139	--	--	1,139
2005	1,081	--	--	1,081
2006	1,150	--	--	1,150
12 kV				
2002	--	0	60	60
2003	286	--	--	286
2004	316	--	--	316
2005	316	--	--	316
2006	330	--	--	330
Total 4kV & 12 kV				
2002	--	598	506	1,104
2003	1,428	--	--	1,428
2004	1,455	--	--	1,455
2005	1,397	--	--	1,397
2006	1,480	--	--	1,480

NON-COINCIDENT PEAK LOADS (MVA)

4 kV				
2002	--	367	250	617
2003	854	--	--	854
2004	808	--	--	808
2005	793	--	--	793
2006	871	--	--	871
12 kV				
2002	--	0	28	28
2003	183	--	--	183
2004	175	--	--	175
2005	180	--	--	180
2006	192	--	--	192
Total 4kV & 12 kV				
2002	--	367	278	645
2003	1,037	--	--	1,037
2004	983	--	--	983
2005	973	--	--	973
2006	1,063	--	--	1,063
LOAD/CAPACITY RATIO				
2002	--	61%	55%	58%
2003	73%	--	--	73%
2004	68%	--	--	68%
2005	69%	--	--	69%
2006	72%	--	--	72%

Comparison of 4kV & 12 kV Substation & Distribution Center Loads and Capacity (Outside Chicago)

NORMAL CAPACITY (MVA)

4 kV

	CE	NE	NW	SE	SW		TOTAL
2002	346	444	131	180	114		1,215
	EC	NE	NW	SE	SW	WC	
2003	141	444	131	189	124	42	1,071
2004	141	444	131	192	125	42	1,075
2005	141	444	131	192	125	42	1,075
2006	138	463	130	197	137	44	1,109

12 kV

	CE	NE	NW	SE	SW		TOTAL
2002	777	679	1,066	368	652		3,542
	EC	NE	NW	SE	SW	WC	
2003	230	495	713	348	635	641	3,062
2004	222	512	784	338	669	680	3,205
2005	222	512	792	338	676	687	3,227
2006	250	605	853	366	704	771	3,549

Total 4 kV & 12 kV

	CE	NE	NW	SE	SW		TOTAL
2002	1,123	1,123	1,197	548	766		4,757
	EC	NE	NW	SE	SW	WC	
2003	371	939	844	537	759	683	4,133
2004	363	956	915	530	794	722	4,280
2005	363	956	923	530	801	729	4,302
2006	388	1,068	983	563	841	815	4,658

NON-COINCIDENT PEAK LOAD (MVA)

4 kV

	CE	NE	NW	SE	SW		TOTAL
2002	201	286	59	88	63		697
	EC	NE	NW	SE	SW	WC	
2003	89	299	72	100	83	30	673
2004	90	282	66	100	79	28	645
2005	90	282	66	100	79	31	648
2006	90	318	71	104	77	27	687

12 kV

	CE	NE	NW	SE	SW		TOTAL
2002	496	417	620	246	420		2,199
	EC	NE	NW	SE	SW	WC	
2003	175	368	501	280	491	483	2,298
2004	173	373	558	278	525	549	2,456
2005	173	373	558	281	525	549	2,459
2006	178	392	627	306	559	618	2,680

Total 4 kV & 12 kV

	CE	NE	NW	SE	SW		TOTAL
2002	697	703	679	334	483		2,896
	EC	NE	NW	SE	SW	WC	
2003	264	667	573	380	574	513	2,971
2004	263	655	624	378	604	577	3,101
2005	263	655	624	381	604	580	3,107
2006	268	710	698	410	636	645	3,367

LOAD/CAPACITY

	CE	NE	NW	SE	SW		TOTAL
2002	62%	63%	57%	61%	63%		61%
	EC	NE	NW	SE	SW	WC	
2003	71%	71%	68%	71%	76%	75%	72%
2004	72%	69%	68%	71%	76%	80%	72%
2005	72%	69%	68%	72%	76%	80%	72%
2006	67%	66%	71%	73%	76%	79%	72%

Number of 4 kV, 12 kV & 34 kV Lines and Feeders
(Inside and Outside Chicago)
(Includes A.C. Network Feeders)

NUMBER OF 4 kV

	2002		2003	2004	2005	2006
CN	302	C	634	631	614	627
CS	179	EC	72	72	76	76
CE	200	NE	209	210	209	220
NE	236	NW	62	62	60	60
NW	64	SE	86	85	85	85
SE	88	SW	58	58	56	65
SW	59	WC	19	19	19	19
Total	1,128		1,140	1,137	1,119	1,152

NUMBER OF 12 kV

CN	761	C	1331	1,363	1,343	1,383
CS	376	EC	612	614	620	625
CE	613	NE	471	473	471	479
NE	797	NW	311	314	313	314
NW	396	SE	317	317	316	319
SE	307	SW	402	416	413	429
SW	372	WC	297	310	317	326
Total	3,622(1)		3,741(2)	3,807 (2)	3,793 (2)	3,875

NUMBER OF A.C. NETWORK FEEDERS

Chicago	(1)		(2)	(2)	(2)	(2)

TOTAL 4 kV, 12 kV AND A.C. NETWORK FEEDERS

	4,750		4,881	4,944	4,912	5,027

NUMBER OF 34kV

	2002		2003	2004	2005	2006
CE	61	C	24	24	24	24
NE	64	EC	30	30	30	36
NW	55	NE	47	47	48	50
SE	27	NW	46	46	45	55
SW	61	SE	28	28	28	29
		SW	62	61	61	63
		WC	35	35	34	38
Total	268		272	271	270	295

TOTAL FOR 4kV, 12kV & 34KV

	5,018		5,153	5,215	5,182	5,322

(1) Chicago AC Network Feeders included in Chicago North Count.
(2) Chicago AC Network Feeders included in Chicago Count.

Distribution Class Transformers (≤ 500 kVA) on

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Distribution Class Transformers (≤ 500 kVA) on C.E. Co System

Estimated Number of Units in Service (1) (2)

	2001		2004		2005		2006 (4)
CN	46,411	CN	101,820	C	102,846	C	101,742
CS	30,548	CS	74,329	EC	76,066	EC	72,482
NE	106,792	NE	70,411	NE	71,957	NE	69,196
NC/SC	92,908	CE	91,036	NW	94,173	NW	90,360
SE	67,826	SE	72,065	SE	74,054	SE	70,019
SW	82,862	SW	92,506	SW	96,069	SW	86,420
NW	108,259	NW	68,264	WC	72,149	WC	65,347
System Total	535,606		570,431		587,314		555,566

Estimated Number of Transformer Locations in Service

	2005	2006 (4)
C	69,586	66,724
EC	64,327	62,168
NE	63,004	60,741
NW	79,045	76,244
SE	63,127	60,434
SW	82,235	76,506
WC	63,334	58,729
System Total	484,658	461,546

Net Number of Units Added During Year (1)(2)

	2001		2004 (3)		2005		2006
CN	208	C	--	C	24	C	70
CS	5	EC	--	EC	61	EC	57
NE	356	NE	--	NE	484	NE	305
CE	584	NW	--	NW	570	NW	415
SE	452	SE	--	SE	168	SE	299
SW	3002	SW	--	SW	274	SW	1,082
NW	619	WC	--	WC	635	WC	578
System Total	5,226		34,825		2,216		2,806

(1) 2002 data not available.
(2) 2003 data not available.
(3) Due to region changes, net number added during year cannot be calculated by region. The 2004 net number added system total includes years 2002, 2003, and 2004.
(4) Differences in current data to previous years' data are attributed to improved data integrity.

Distribution Class Transformers (≤ 500 kVA) on C.E. Co System

(1)

Installed Nameplate Capacity (kVA)

	2001		2003 (2)		2004		2005	2006 (6)
CN	5,647,135	C	9,689,722	C	9,767,279	C	11,067,220	7,908,240
CS	2,532,018	EC	5,331,367	EC	5,393,924	EC	3,925,146	3,997,190
NE	7,078,986	NE	4,372,673	NE	4,453,215	NE	3,421,854	3,418,090
CE	5,931,911	NW	3,530,204	NW	3,591,382	NW	3,674,476	3,302,824
SE	3,213,798	SE	3,382,231	SE	3,416,016	SE	3,271,131	2,631,191
SW	3,870,713	SW	4,514,059	SW	4,614,989	SW	4,415,861	3,075,531
NW	4,302,092	WC	3,197,999	WC	3,308,570	WC	2,805,976	2,215,542
System Total	32,576,653		34,018,255		34,545,375		32,581,664	26,548,606

Net Increase (KVA)

	2001		2003 (3)		2004		2005	2006 (6)
CN	48,573	C	--	C	77,557	C	548	8,035
CS	-351	EC	--	EC	62,557	EC	2,690	2,778
NE	55,185	NE	--	NE	80,542	NE	19,282	19,317
CE	65,170	NW	--	NW	61,178	NW	19,404	17,644
SE	26,648	SE	--	SE	33,785	SE	5,608	7,405
SW	114,424	SW	--	SW	100,930	SW	8,796	25,629
NW	38,719	WC	--	WC	110,571	WC	24,929	27,050
System Total	348,368		1,441,602		527,120		81,255	107,856

Average Nameplate Capacity of Transformers (KVA)

	2001		2003 (2)(4)		2004(5)		2005	2006
CN	122	C	149	C	96	C	169	118
CS	83	EC	87	EC	73	EC	62	64
NE	66	NE	73	NE	63	NE	55	56
CE	64	NW	47	NW	39	NW	47	43
SE	47	SE	56	SE	47	SE	52	43
SW	47	SW	59	SW	50	SW	54	40
NW	40	WC	55	WC	48	WC	45	38
System Total	61		74		61		69	57

(1) 2002 data not available.
(2) Revised Numbers
(3) Due to region changes, net increase (kVA) cannot be calculated by region.
(4) Prior to 2003 the average kVA per transformer was reported. Starting in 2003 the average kVA per transformer location is reported.
(5) 2004 average kVA per transformer was reported.
(6) Differences in current data to previous years' data are attributed to improved data integrity.

Distribution Transformers (1)
Based on C.E.Co. Plant Report

	12/31/05 Report (2) (3)		12/31/06 Report (2) (3)	
	Number	Investment (4) (In $1,000's)(5)	Number	Investment (4) (In $1,000's)(5)
TOTAL Overhead	223,663	$177,953	226,442	$191,554
TOTAL Compartmental	188,734	$287,465	196,189	$315,480
TOTAL Dry Type	5,640	$46,590	5,894	$50,177
TOTAL Vault Type	55	$1,107	55	$1,108
TOTAL Auto (12 kV and Under)	3,145	$12,044	3,200	$12,743
TOTAL Small Power (501 kVA to < 10 MVA)	4,008	$78,283	4,076	$83,278
TOTAL Line Transformers	425,245	$603,443	435,856	$654,340

(1) Accounting definition of distribution transformers (Account 33680) includes all transformers (distribution and small power class) except those included in station accounts which are the Generation Stations, Substations, Electric Service Stations, and Network Vaults.
(2) Does not include transformers more than 30 years old. After 30 years, they are considered retired and are not tracked.
(3) Due to Y56 database changes, single phase and three phase transformer numbers and investment dollars cannot be separated.
(4) Transformers only - not including cost of installation.
(5) Dollars may not total because of rounding ($1,000's)

Miscellaneous Data
From C.E.Co. Plant Report

POLES (DISTRIBUTION PLANT)	12/31/05	12/31/06
Wholly Owned - Number	773,035	776,627
Investment (1)	$473,992,445	$510,635,445
Average Investment Per Pole	$613.16	$657.50
Jointly Owned - Number	591,705	591,737
Investment (1)	$132,022,066	$133,392,941
Average Investment Per Pole	$223.12	$225.43
Wholly and Jointly Owner – Number	1,364,740	1,368,364
Investment (1)	$606,014,511	$644,028,386
Average Investment Per Pole	$444.05	$470.66

CONDUCTORS (PRIMARY DISTRIBUTION – 12/31/2006 – From CEGIS)

Overhead	Miles	Miles	Miles	Total Overhead Circuit Miles
Voltage	1 Phase	2 Phase	3 Phase	
4 kV	636	229	1,031	1,895
12 kV	13,330	3,699	13,749	30,778
34 kV	<1	<1	3,203	3,203
Total	13,966	3,928	17,983	35,876

Underground	Miles	Miles	Miles	Total Underground Circuit Miles
Voltage	1 Phase	2 Phase	3 Phase	
4 kV	214	34	1,017	1,265
12 kV	14,113	1,784	11,903	27,800
34 kV	19	0	271	290
Total	14,346	1,818	13,191	29,355

CONDUCTORS (1/C & MULTICONDUCTORS)

	Miles (1000's) 12/31/05 (5)	Investment (Millions) 12/31/05 (1)	Miles (1000's) 12/31/06 (5)	Investment (Millions) 12/31/06 (1)
OVERHEAD (BARE & WEATHER RESISTANT)				
Copper	34.6	$54.5	34.6	$59.3
Aluminum & ACSR	73.8	$498.0	74.1	$510.2
Other	8.7	$2.7	8.7	$2.8
Cable (2)	12.2	$216.6	12.2	$216.9
Total Overhead Conductors	129.3	$771.8	129.6	$789.1
Total Overhead Circuit Miles	43.9		44.1	
UNDERGROUND				
Cable in Duct	8.8	$873.4	9.0	$945.2
Cable Buried	35.3	$1651.5	36.8	$1769.9
Non Load (3)	2.2	$61.4	2.2	$61.4
Total Underground Cable	46.3	$2,586.3	48.0	$2,776.5
Conduit, Trench Miles (4)	4.5	$440.5	4.5	$441.2

(1) Includes all Costs
(2) Prior to 2003 overhead cable was included in the copper and aluminum conductor calculations.
(3) Prior to 2003 non-load cable was included in the cable in duct and buried cable calculations.
(4) Not Including Conduit in Tunnels.
(5) Includes service and secondary conductors.

Miscellaneous Distribution Cost Data (3)

TYPICAL LINE CONSTRUCTION (1)	12/31/05	12/31/06 (4)
34 kV - 3-Phase Overhead Line	$139,830 / mile	
12 kV - 3-Phase Overhead Feeder - In Chicago	$188,631 / mile	
12 kV - 3-Phase Overhead Feeder - Outside Chicago	$151,789 / mile	
12 kV - 1-Phase Overhead Feeder - In Chicago	$89,190 / mile	
12 kV - 1-Phase Overhead Feeder - Outside Chicago	$65,106 / mile	

TYPICAL ELECTRIC SERVICE STATION (2)	12/31/05	12/31/06 (4)
34 kV - Including 1-3750 kVA Transformer	$95,082	
12 kV - Including 1-1500 kVA Transformer	$40,387	
12 kV - Including 3-50 kVA Transformers	$12,674	

(1) Work Order Cost

(2) Work Order Costs Not Including Transformer Hauling, Land or Yardwork.

(3) Costs calculated using data from G.C.O 25 dated 10/1/2005.

(4) Data no longer available in this format.

Transmission Line Statistics (2)

Overhead Transmission

Line Voltage	12-31-05 Structure Miles (1)	12-31-05 Structure Miles (1)	12-31-06 Structure Miles (1)	12-31-06 Circuit Miles
765 kV	90	90	90	90
345 kV	1,388	2,609	1,388	2,609
138 kV	1,629	2,587	1,628	2,585
69 kV	50	53	50	53
Total Overhead System	3,157	5,339	3,156	5,337

Underground Transmission

Line Voltage	Three Phase Cable Miles 12-31-05	Three Phase Cable Miles 12-31-06
345 kV	12.20	12.20
138 kV	278.98	282.06
69 kV	96.10	96.10
Total Underground System	387.28	390.36

(1) Structure miles are included with the highest voltage on the structures.

(2) Includes C.E. Co of Indiana.

Performance of 138 kV and 34 kV Lines

138kV Lines

Number of Lines (1)									Number of Lockouts								
		CE	NE	NW	SE	SW		Total			CE	NE	NW	SE	SW		Total
2002		29	32	35	15	47		158	2002		5	2	3	5	12		27
	C	EC	NE	NW	SE	SW	WC			C	EC	NE	NW	SE	SW	WC	
2003		25	19	27	23	40	27	161	2003		3	1	6	10	9	9	38
2004									2004		2	1	3	7	8	2	23
2005	115	25	19	31	23	43	33	289	2005	18	1	2	5	4	9	5	44
2006	119	25	19	32	24	42	35	296	2006	8	2	0	9	5	16	0	40

Number of Tripouts								
		CE	NE	NW	SE	SW		Total
2002		6	7	13	6	18		50
	C	EC	NE	NW	SE	SW	WC	
2003		5	3	10	12	16	16	62
2004		3	7	10	19	25	15	79
2005	5	1	0	11	6	15	9	47
2006	7	2	5	21	12	19	4	70

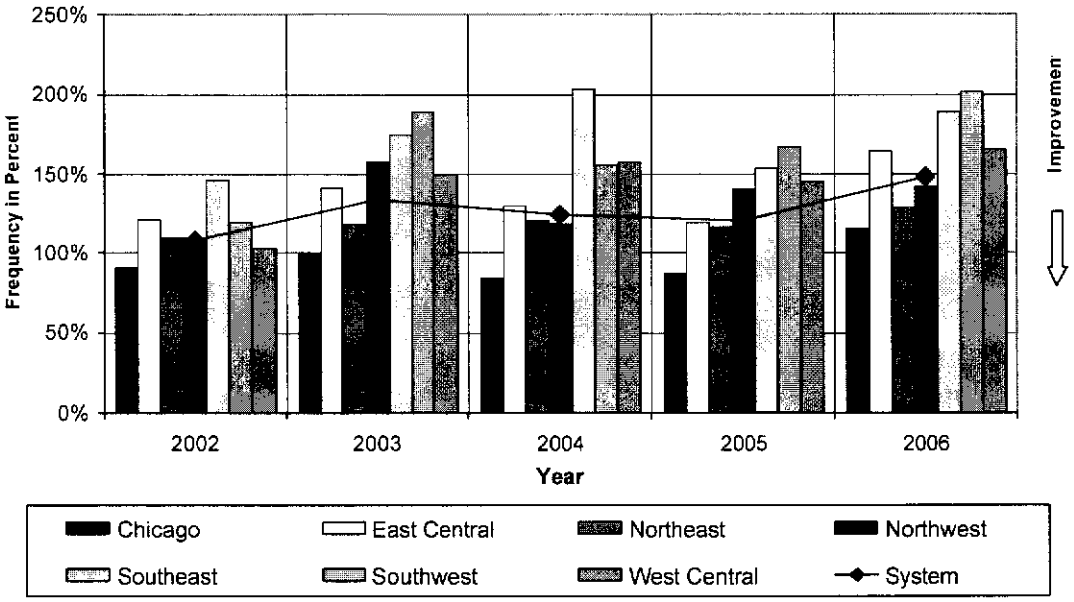
34kV Lines

Number of Lockouts								
		CE	NE	NW	SE	SW		Total
2002		20	28	27	34	47	9	165
	C	EC	NE	NW	SE	SW	WC	
2003		14	36	51	45	77	21	244
2004		10	29	41	40	67	27	214
2005	17	15	32	59	43	76	43	285
2006	33	17	46	57	38	73	36	300

Number of Tripouts (2)								
		CE	NE	NW	SE	SW		Total
2002		159	153	223	85	264		884
	C	EC	NE	NW	SE	SW	WC	
2003		92	157	276	155	351	170	1,201
2004		69	145	230	125	313	165	1,047
2005	54	55	115	182	111	224	130	871
2006	104	71	143	226	109	283	168	1,104

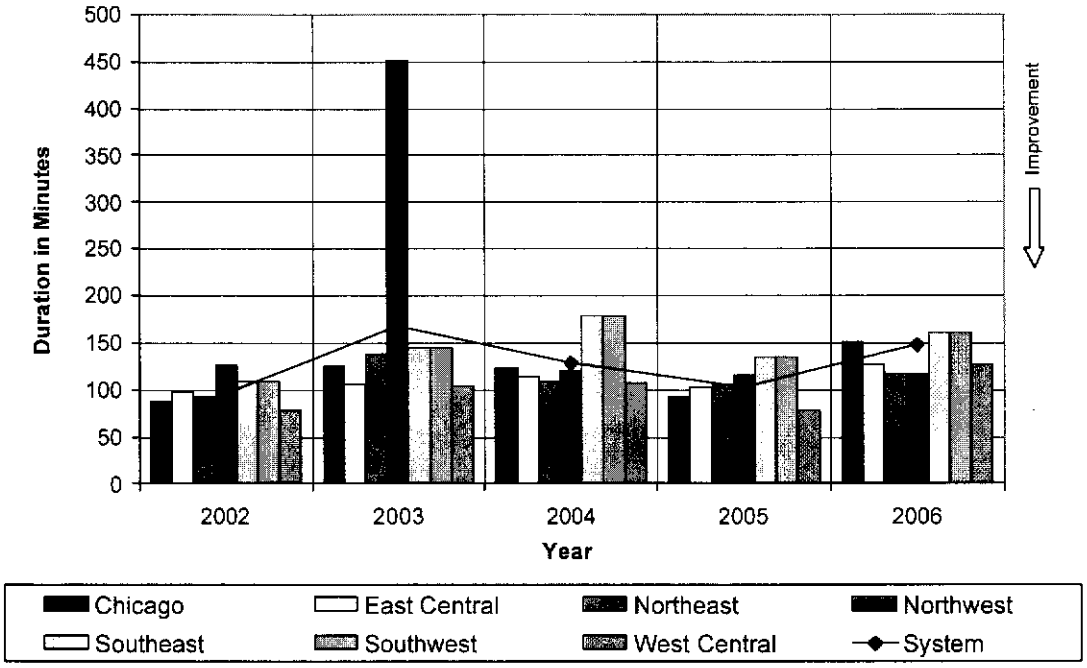
(1) 2004 Data not Available
(2) Includes Number of Lockouts

Interruption Frequency*

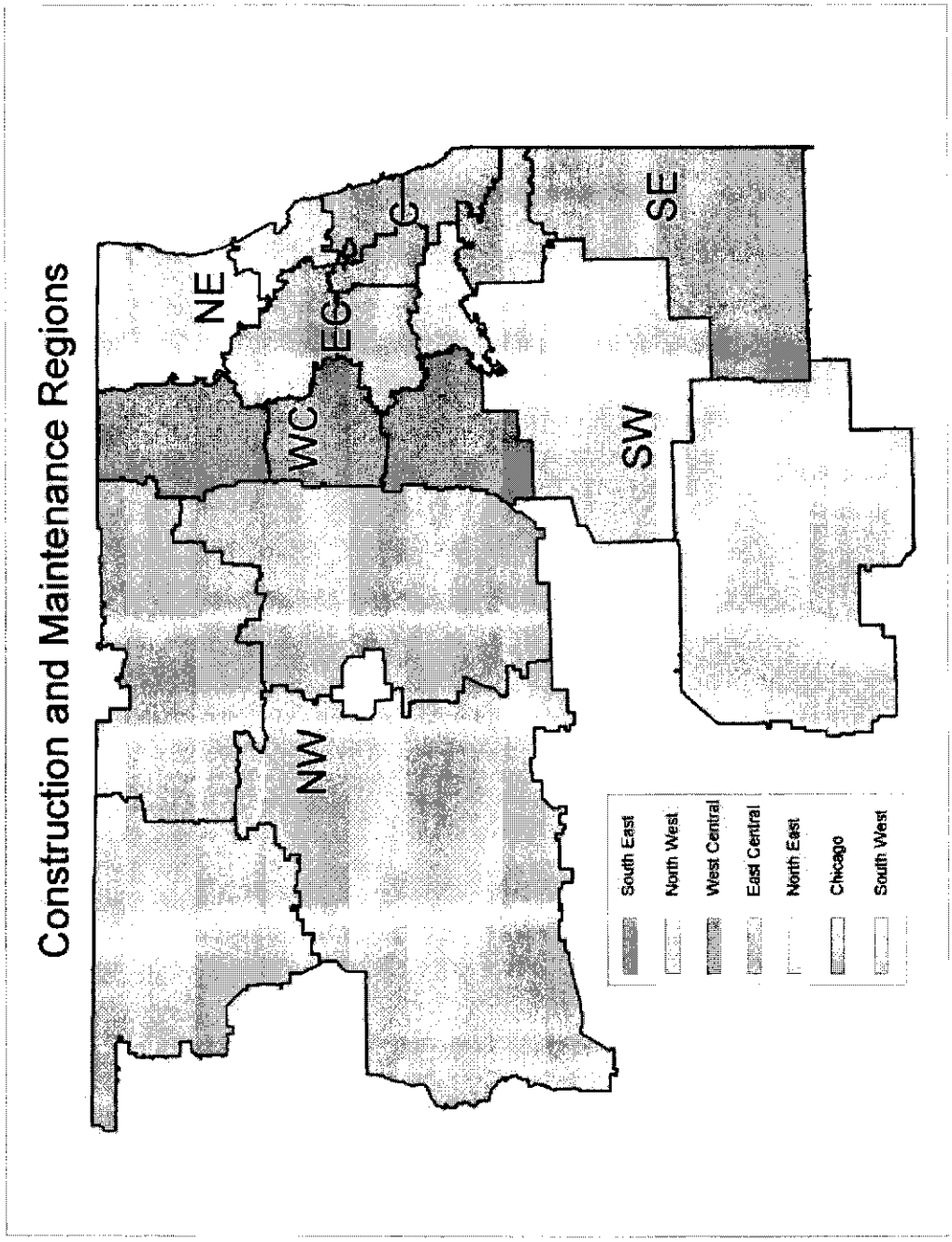


$$*\text{SAIFI} = \frac{\text{Total number of customer interruptions}}{\text{Total number of customers served}}$$

Interruption Duration*



*CAIDI = $\frac{\text{Sum of all customer interruption durations}}{\text{Total number of customer interruptions}}$


Construction and Maintenance Regions
NE
EC
WC
NW
SW
SE
South East
North West
West Central
East Central
North East
Chicago
South West

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