

Republic of the Philippines
ENERGY REGULATORY COMMISSION
San Miguel Avenue, Pasig City

DRAFT NO. 1

**AMENDMENTS TO THE RULES AND REGULATIONS
IMPLEMENTING REPUBLIC ACT NO. 7832**

Pursuant to the provisions of Section 14 of Republic Act No 7832, otherwise known as the “Anti-Electricity and Electric Transmission Lines/Materials Pilferage Act of 1994” and Section 41 of Republic Act No. 9136, otherwise known as the Electric Power Industry Reform Act of 2001, the Energy Regulatory Commission (ERC) hereby promulgates the amendments to the Rules and Regulations Implementing Republic Act No. 7832.

Section 1. The following provisions of the Implementing Rules and Regulations of RA 7832 are hereby amended to read as follows:

**RULES AND REGULATIONS IMPLEMENTING
REPUBLIC ACT NO. 7832**

RULE III

PRIMA FACIE EVIDENCE

Section 3. Any natural or juridical person, whether or not he is a registered customer of a distribution utility, may be found guilty of any of the violations contained in the Act or its Implementing Rules and Regulations (IRR), provided the proper procedures are strictly complied with by the concerned distribution utility. Such person may be assessed a differential billing and surcharge, whenever applicable.

RULE IV (NEW PROVISIONS)

GENERAL PRINCIPLES

SECTION 1. ALL APPREHENSIONS FOR ALLEGED VIOLATIONS OF R.A. 7832 MUST BE MADE IN THE PRESENCE OF THE REGISTERED CUSTOMER, ACTUAL USER OR THEIR AUTHORIZED REPRESENTATIVES. THE SAID REPRESENTATIVE MUST BE A RESIDENT OF THE PREMISES AND OF LEGAL AGE WITH SUFFICIENT DISCRETION AND DISCERNMENT. ONLY THE AFOREMENTIONED PERSONS WHO WITNESSED THE APPREHENSION AND THE OFFICER OF THE LAW PRESENT DURING THE ACTUAL APPREHENSION SHALL SIGN THE INSPECTION REPORT PREPARED BY THE APPREHENDING OFFICER.

SECTION 2. AN APPREHENSION FOR ALLEGED VIOLATION OF RA 7832 MAY BE DONE ANYTIME AND THE APPREHENDING OFFICER SHALL BE ALLOWED TO CONFISCATE ALL IMPLEMENTS OF THE ALLEGED VIOLATION. THE APPREHENDING OFFICER MUST DETERMINE WITH REASONABLE CERTAINTY WHICH PREMISES ACTUALLY BENEFITTED FROM SUCH ILLEGAL USE OF ELECTRICITY AND ONLY RESIDENTS THEREOF MAY BE HELD LIABLE FOR THE PAYMENT OF THE DIFFERENTIAL BILLING.

SECTION 3. WHEN THE PERSON APPREHENDED IS NOT A REGISTERED CUSTOMER OF THE CONCERNED DISTRIBUTION UTILITY (DU) OR THE PERSON'S ACCOUNT HAS BEEN DISCONNECTED OR TERMINATED, THE DU SHALL BE ALLOWED TO COLLECT THE DIFFERENTIAL BILLING FROM SUCH PERSON BY FILING THE APPROPRIATE COMPLAINT BEFORE THE REGULAR COURTS.

IF NO CASE HAS BEEN FILED AND SUCH PERSON APPLIES FOR ELECTRIC SERVICE, THE DU MAY RECOVER THE DIFFERENTIAL BILLING FROM THE SAID PERSON BASED ON SUBSTANTIAL EVIDENCE BEFORE THE APPLICATION FOR ELECTRIC SERVICE CAN BE GIVEN DUE COURSE.

SECTION 4. THE OFFICER OF THE LAW MUST WITNESS THE ENTIRE PROCESS OF APPREHENSION.

SECTION 5. THE REGISTERED CUSTOMER, ACTUAL USER OR HIS DULY AUTHORIZED REPRESENTATIVE MUST BE FURNISHED A COPY OF THE INSPECTION REPORT IMMEDIATELY AFTER SIGNING THE SAME.

SECTION 6. THE CUSTOMER OR ACTUAL USER MUST BE IN RECEIPT OF A COPY OF THE INSPECTION REPORT BEFORE THE DIFFERENTIAL BILLING, IF APPLICABLE, CAN BE DEMANDED. BEFORE ANY ACTUAL DISCONNECTION OF ELECTRIC SERVICE, A DEMAND LETTER PREPARED IN ACCORDANCE WITH THESE RULES AND SIGNED BY THE DULY AUTHORIZED REPRESENTATIVE OF THE CONCERNED DISTRIBUTION UTILITY MUST BE SERVED ON THE REGISTERED CUSTOMER OR ACTUAL USER.

SECTION 7. THE CUSTOMER OR ACTUAL USER IS GIVEN TWENTY FOUR (24) HOURS FROM RECEIPT OF THE DEMAND LETTER TO SETTLE THE DIFFERENTIAL BILLING. IF THE DEMAND LETTER IS SERVED OR RECEIVED DURING WEEKENDS OR HOLIDAYS, THE CUSTOMER OR ACTUAL USER SHALL BE ALLOWED TO SETTLE THE DIFFERENTIAL BILLING AT THE NEXT WORKING DAY.

SECTION 8. ANY VIOLATION OF SECTIONS 1 TO 5 OF RULE IV MAY BE A GROUND FOR ABSOLVING THE CUSTOMER OR ACTUAL USER/OCCUPANT FROM ANY LIABILITY.

SECTION 9. IF A CUSTOMER HAS SEVERAL ACCOUNTS, THE APPREHENSION OF ONE ACCOUNT SHALL NOT PREJUDICE THE OTHER UNRELATED ACCOUNTS.

SECTION 10. DISCONNECTION OF ELECTRIC SERVICE SHALL MEAN DISCONNECTION OF THE LEGITIMATE ELECTRIC SERVICE OF THE CONSUMER OR ACTUAL USER WHO WAS APPREHENDED, EFFECTED IN THE SUBJECT PREMISES WHERE THE VIOLATION WAS DISCOVERED. THE DISCONNECTION SHALL NOT BE EXTENDED TO OTHER ELECTRIC SERVICE/S OF THE CONSUMER NOT INVOLVED IN THE VIOLATION.

SECTION 11. NO CUSTOMER SHALL BE ALLOWED TO PROVIDE ELECTRICITY TO PREMISES OTHER THAN THOSE COVERED UNDER THE CUSTOMER'S SERVICE CONTRACT WITH THE DISTRIBUTION UTILITY. IN SUCH CASES, THE DISTRIBUTION UTILITY SHALL HAVE THE RIGHT TO DISCONNECT THE CUSTOMER'S ELECTRIC SERVICE FOR CONTINUOUS VIOLATION HEREOF. THE CUSTOMER MAY BE ASSESSED A SURCHARGE FOR SUCH VIOLATION. AS THERE IS NO UNREGISTERED CONSUMPTION, THE DISTRIBUTION UTILITY SHALL NOT BE ALLOWED TO ASSESS A DIFFERENTIAL BILLING FROM SUCH CUSTOMER.

SECTION 12. NO SURCHARGE SHALL BE IMPOSED UNLESS THERE IS ACTUAL ADMISSION BY THE CONCERNED CUSTOMER OR THERE IS A FINAL JUDGMENT OF VIOLATION RENDERED BY THE REGULAR COURTS OR THE ERC.

RULE (V) VI

DISCONNECTION OF ELECTRIC SERVICE

Section 1. Right to disconnect and its requirements. x x x

The written notice or warning being referred to herein shall be served prior to such disconnection and shall indicate the x x x

- a) Computation of the unbilled consumption in kilowatthour INCLUDING THE METHODOLOGY USED IN COMPUTING THE SAME
- b) The period to be used in computing the differential billing
- c) The latest Inspection Report prior to apprehension.

Section 2. Inspection Report. – An Inspection Report must be accomplished by the DISTRIBUTION utility ~~or cooperative~~ concerned after every inspection, monitoring of meter installation or apprehension, indicating the following:

- a) Date and time of the inspection;
- b) Condition of the meters, SEALS, instrument transformers and metering installations;
- c) Changes made with the connections during the time of inspection;
- d) DETAILED SKETCH OF THE ALLEGED VIOLATION;
- e) Replacement made on the metering installations, if any;
- f) Signature over the printed name of the Inspector; and

- g) Signature over the printed name of the consumer CUSTOMER/ACTUAL USER or ~~his~~ THEIR duly authorized representatives.

The accomplished Inspection Report shall be attested to by the authorized ERC (ERB) representative or by the Officer of the law, as the case may be.

The original copy of the Inspection Report shall be kept by the electric DISTRIBUTION utility or ~~electric cooperative~~ concerned and shall not be destroyed without prior approval from the ERC (ERB). A duplicate of the said report shall likewise be furnished to the owner/occupant of the establishment concerned or THE CUSTOMER'S OR ACTUAL USER'S DULY AUTHORIZED REPRESENTATIVE (~~someone of suitable age and discretion residing therein and acting in behalf of the owner/occupant~~).

RULE (VII) VIII

BILLINGS AND SURCHARGES

Section 1. Testing of Watthour Meter Standard Equipment. - . – The NPC, THE NATIONAL TRANSMISSION CORPORATION, THE NATIONAL GRID CORPORATION OF THE PHILIPPINES (NGCP) (~~the NEA~~) and all x x x

~~— (The NEA shall likewise furnish the ERB, within the same period aboveprescribed, with copies of the test reports on the calibration of the watthour meter standard equipment of all the electric cooperatives.)~~

Section 3. Computation of the Differential Billing. – A PERSON SHALL ONLY BE LIABLE FOR THE PAYMENT OF DIFFERENTIAL BILLING EQUIVALENT TO THE BENEFIT DERIVED FROM THE SAID VIOLATION USING ANY OF THE METHODOLOGIES PROVIDED HEREIN.

The differential billing shall be determined by multiplying the unbilled consumption in kilowatthour, the period covered by the differential billing and the current rate of electricity at the time of apprehension.

Section 4. Computation of the Unbilled Consumption in Kilowatthour. – The unbilled consumption in kilowatthour may be computed by using the following methodologies:

4.1. FOR CASES FALLING UNDER SECTION 2(A) OF THE ACT TO BE REFERRED TO AS LINESIDE CONNECTIONS AND THE CONCERNED PREMISES IS COVERED BY AN EXISTING ACTIVE SERVICE CONTRACT WITH THE CONCERNED DISTRIBUTION UTILITY, THE FOLLOWING METHODOLOGIES SHALL BE USED PREFERABLY IN THE FOLLOWING ORDER OF PRIORITY:

- i. THE HIGHER CONSUMPTION BETWEEN THE AVERAGE CONSUMPTIONS BEFORE OR AFTER THE HIGHEST DRASTIC DROP IN CONSUMPTION WITHIN THE FIVE-YEAR BILLING PERIOD PRECEDING THE DISCOVERY. FOR PURPOSES OF THESE RULES, THERE IS AN ABNORMAL DROP IN CONSUMPTION WHEN THERE IS A DECREASE IN THE CUSTOMER'S KILOWATTHOUR OF AT LEAST FIFTY PERCENT OF THE AVERAGE KILOWATTHOUR CONSUMPTION FOR THE LAST SIX (6) MONTHS PRIOR THERETO;
- ii. THE ESTIMATED CONSUMPTION AS PER REPORT OF LOAD INSPECTION CONDUCTED AT THE TIME OF DISCOVERY. THE COMPUTATION OF THE ESTIMATED CONSUMPTION SHALL BE BASED ON THE ERC APPROVED ESTIMATIONS ATTACHED HERETO AS ANNEX "A";
- iii. THE HIGHEST RECORDED CONSUMPTION WITHIN THE FIVE-YEAR PERIOD PRECEDING THE TIME OF THE DISCOVERY; AND
- iv. THE HIGHEST RECORDED MONTHLY CONSUMPTION WITHIN THE FOUR (4) MONTHS AFTER THE TIME OF THE DISCOVERY.

IF THE PREMISES IS NOT COVERED BY AN EXISTING SERVICE CONTRACT WITH THE CONCERNED DISTRIBUTION UTILITY, THE COMPUTATION OF THE DIFFERENTIAL BILLING SHALL BE BASED ON THE ESTIMATED CONSUMPTION AS PER REPORT OF LOAD INSPECTION CONDUCTED AT THE TIME OF DISCOVERY.

4.2. FOR CASES FALLING UNDER SECTION 2(B) OF THE ACT TO BE REFERRED TO AS UNAUTHORIZED LOADSIDE CONNECTIONS, NO DIFFERENTIAL BILLING SHALL BE ASSESSED AS THERE IS NO UNREGISTERED CONSUMPTION. HOWEVER, THE CONCERNED DISTRIBUTION UTILITY MAY IMPOSE A SURCHARGE

ON THE CUSTOMER OR ACTUAL USER COMPUTED IN ACCORDANCE WITH THESE RULES AND REGULATIONS

4.3 FOR CASES FALLING UNDER SECTION 2(C) OF THE ACT TO BE REFERRED TO AS ALTERED SERVICE FACILITIES, THE FOLLOWING METHODOLOGIES SHALL BE USED PREFERABLY IN THE FOLLOWING ORDER OF PRIORITY:

- i. THE ERC TEST REPORT RESULTS;
- ii. THE HIGHER CONSUMPTION BETWEEN THE AVERAGE CONSUMPTIONS BEFORE OR AFTER THE HIGHEST DRASTIC DROP IN CONSUMPTION WITHIN THE FIVE-YEAR BILLING PERIOD PRECEDING THE DISCOVERY. FOR PURPOSES OF THESE RULES, THERE IS AN ABNORMAL DROP IN CONSUMPTION WHEN THERE IS A DECREASE IN THE CUSTOMER'S KILOWATTHOUR OF AT LEAST FIFTY PERCENT OF THE AVERAGE KILOWATTHOUR CONSUMPTION FOR THE LAST SIX MONTHS PRIOR THERETO;
- iii. THE HIGHEST RECORDED MONTHLY CONSUMPTION WITHIN FOUR (4) MONTHS AFTER THE TIME OF THE DISCOVERY; AND
- iv. THE ESTIMATED CONSUMPTION AS PER REPORT OF LOAD INSPECTION CONDUCTED AT THE TIME OF DISCOVERY. THE COMPUTATION OF THE ESTIMATED CONSUMPTION SHALL BE BASED ON THE ERC APPROVED ESTIMATIONS ATTACHED HERETO AS ANNEX "A".

4.4 FOR CASES FALLING UNDER SECTION 2(D) OF THE ACT TO BE REFERRED TO AS DAMAGED OR DESTROYED SERVICE FACILITIES, THE FOLLOWING METHODOLOGIES SHALL BE USED PREFERABLY IN THE FOLLOWING ORDER OF PRIORITY:

- i. THE ERC TEST REPORT RESULTS;
- ii. THE HIGHER CONSUMPTION BETWEEN THE AVERAGE CONSUMPTIONS BEFORE OR AFTER THE HIGHEST DRASTIC DROP IN CONSUMPTION WITHIN THE FIVE-YEAR BILLING PERIOD PRECEDING THE DISCOVERY. FOR PURPOSES OF THESE RULES, THERE IS AN ABNORMAL

DROP IN CONSUMPTION WHEN THERE IS A DECREASE IN THE CUSTOMER'S KILOWATTHOUR OF AT LEAST FIFTY PERCENT OF THE AVERAGE KILOWATTHOUR CONSUMPTION FOR THE LAST SIX MONTHS PRIOR THERETO;

- iii. THE HIGHEST RECORDED MONTHLY CONSUMPTION WITHIN FOUR (4) MONTHS AFTER THE TIME OF THE DISCOVERY.

Section 5. Period to be Recovered. In determining the period to be recovered under the differential billing, the following shall be considered:

IF PRIOR TO THE DATE OF DISCOVERY, ~~(When)~~ there was a change in the customer's service connection, such as change of meter, change of seal or reconnection, or replacement of parts, OR THERE WAS AN ABNORMAL OR ABRUPT DROP IN CONSUMPTION, the period to be recovered under the differential billing shall be reckoned from the time OF THE OCCURRENCE OF THE SAID CHANGES, RECONNECTION, ~~(of the last)~~ inspection OR ABNORMAL OR ABRUPT DROP IN CONSUMPTION.

~~In the absence thereof, the period to be recovered under the differential billing shall start from the time the electric service of the person concerned recorded an abrupt or abnormal drop in consumption; or~~

~~In the absence of both, THE DISTRIBUTION UTILITY MAY BE ALLOWED TO RECOVER THE DIFFERENTIAL BILLING UP TO a maximum of sixty (60) billing months, up to the time of the discovery. may be used as basis for the computation; provided however that if the person concerned presents adequate and indubitable proof showing that the period to be recovered by the differential billing is less than sixty (60) billing months, the utility or cooperative may recomputed the amount of the differential billing based on the established period for recovery.~~

The period to be used shall, in no case, be less than one (1) year preceding the date of discovery of the illegal use of electricity, UNLESS ANY OF THE CIRCUMSTANCES IN THE FIRST PARAGRAPH HEREOF IS PRESENT, OR THE CONCERNED CONSUMER PRESENTS INDUBITABLE AND ADEQUATE PROOF THAT THE OCCURRENCE OF THE ILLEGAL USE OF ELECTRICITY IS FOR A PERIOD WHICH COULD BE LESS THAN A YEAR. THUS, FOR PURPOSES OF CALCULATING THE DIFFERENTIAL BILLING, THE RECOVERABLE PERIOD SHALL START FROM THE TIME OF THE OCCURRENCE OF

THE CHANGES, RECONNECTION, INSPECTION, ABNORMAL OR ABRUPT DROP IN CONSUMPTION.

~~In cases where the affected period is less than one (1) year, the utility or cooperative may be allowed to compute for the differential billing using one (1) year as the minimum basis for computation.~~

x x x

x x x

Section 6. Discovery of Prima Facie Evidence. – x x x

THE AFOREMENTIONED METER SHALL BE REPLACED BY AN ACCURATE ONE AND THE ELECTRIC SERVICE OF THE CUSTOMER SHALL CONTINUE UNTIL CONFIRMATION OF THE METER TAMPERING AND NON-PAYMENT OF THE DIFFERENTIAL BILLING WITHIN THE PERIOD ALLOWED IN THESE RULES. METER TAMPERING CAN ONLY BE CONFIRMED BY AN ERC REPRESENTATIVE. NON-COMPLIANCE MAY BAR THE DISTRIBUTION UTILITY FROM COLLECTING A DIFFERENTIAL BILLING FROM THE CUSTOMER OR ACTUAL USER.

~~Section 7. Inspection Report. — x x x~~

Rule IX is hereby modified to read as follows:

RULE IX. RATIONALIZATION OF SYSTEM LOSS

Section 1. Caps on Recoverable System Loss allowed to ~~Private~~ Electric Distribution Utilities. - The maximum rate of system loss that the DISTRIBUTION utility can pass on to its customers shall be PERIODICALLY SET BY THE COMMISSION.

THE CURRENT SYSTEM LOSS CAP HAS BEEN SET BY THE ERC IN RESOLUTION NO. 17, SERIES OF 2008 ENTITLED "A RESOLUTION ADOPTING A NEW SYSTEM LOSS CAP" FOR DISTRIBUTION UTILITIES" PURSUANT TO THE PROVISIONS OF SECTION 43(F) OF REPUBLIC ACT NO. 9136, OTHERWISE KNOWN AS THE ELECTRIC POWER INDUSTRY REFORM ACT OF 2001. THE SAID RESOLUTION SHALL REMAIN IN FORCE AND EFFECT UNTIL MODIFIED OR REPEALED BY THE ERC.

Section 2. DETERMINATION AND IMPOSITION OF THE SYSTEM LOSS CHARGE. – A SYSTEM LOSS CHARGE SHALL BE

DETERMINED ANNUALLY BASED ON THE PREVIOUS YEAR'S COSTS AND REVENUES OF THE CONCERNED DISTRIBUTION UTILITY. THE SAME SHALL BE SUBJECT TO CONFIRMATION AND TRUE-UP TO ENSURE THAT ONLY LEGITIMATE COSTS ARE BORNE BY THE CONSUMERS.

THE SAID DETERMINATION AND IMPOSITION SHALL BE GOVERNED BY A SEPARATE GUIDELINE TO BE PROMULGATED BY THE ERC.

Section 2. All references to ERB are hereby changed to ERC.

All other Rules and provisions of the Rules and Regulations Implementing Republic Act No. 7832 are hereby renumbered accordingly.

Section 3. If any of the foregoing amendments is declared unconstitutional or invalid, the other provisions not affected thereby shall remain in force and effect.

Section 4. All rules, regulations, guidelines and other issuances not expressly revised herein shall remain in force and effect.

Section 5. These amendments shall take effect fifteen (15) days after its publication in a newspaper of general circulation in the country.

Pasig City. _____

ZENAIDA G. CRUZ-DUCUT
Chairperson

RAUF A. TAN
Commissioner

ALEJANDRO Z. BARIN
Commissioner

MARIA TERESA A. R. CASTANEDA
Commissioner

JOSE C. REYES
Commissioner

**AVERAGE MONTHLY ENERGY CONSUMPTION OF ELECTRIC APPLIANCES/FIXTURES
HRS PER DAY**

APPLIANCES/FIXTURES	WATTS	HRS/DAY	0.5	1	1.5	2	3	4	5	6	7	8	12	14	24	10 hrs/26	8 hrs/wk	4 hrs/wk	3 hrs/wk	2 hrs/wk	1 hr/mo
COOKER, SLOW (1.0 liter) (COMMERCIAL)	90	5		2.7		5.4	8.1	10.8	13.5												
DENTAL CHAIR	167	4		5.01		10.02	15.03	20.04	25.05	30.06	35.07	40.08	60.12	70.14	120.24						
DISH DRYER	500	1.5		15	22.5	30	45														
DISH WASHER	280	1.5		8.4	12.6	16.8	25.2														
FAN, CEILING (2-BLADER)	100	8					9	12	15	18	21	24	36	42	72						
FAN, CEILING (3-BLADER)	140	8					12.6	16.8	21	25.2	29.4	33.6	50.4	58.8	100.8						
FAN, CEILING (4-BLADER)	160	8					14.4	19.2	24	28.8	33.6	38.4	57.6	67.2	115.2						
FAN, DESK (8")	30	8					2.7	3.6	4.5	5.4	6.3	7.2	10.8	12.6	21.6						
FAN, DESK (10")	40	8					3.6	4.8	6	7.2	8.4	9.6	14.4	16.8	28.8						
FAN, DESK (12")	50	8					4.5	6	7.5	9	10.5	12	18	21	36						
FAN, DESK (14")	60	8					5.4	7.2	9	10.8	12.6	14.4	21.6	25.2	43.2						
FAN, DESK (16")	80	8					7.2	9.6	12	14.4	16.8	19.2	28.8	33.6	57.6						
FAN, DESK (18") TURBO	120	8					10.8	14.4	18	21.6	25.2	28.8	43.2	50.4	86.4						
FAN, DESK (20")	175	8					15.75	21	26.25	31.5	36.75	42	63	73.5	126						
FAN, BOX (BIG)	90	8					8.1	10.8	13.5	16.2	18.9	21.6	32.4	37.8	64.8						
FAN, INDUSTRIAL	175	8					15.75	21	26.25	31.5	36.75	42	63	73.5	126						
FAN, INDUSTRIAL (0.5 hp)	373	8					33.57	44.76	55.95	67.14	78.33	89.52	134.28	156.66	268.56						
FAN, STAND (16")	80	8					7.2	9.6	12	14.4	16.8	19.2	28.8	33.6	57.6						
FAN, EXHAUST	92	8					8.28	11.04	13.8	16.56	19.32	22.08	33.12	38.64	66.24						
FAX MACHINE	115	8					10.35	13.8	17.25	20.7	24.15	27.6	41.4	48.3	82.8						
FLAT IRON (STANDARD)	600	8hrs/wk															19.2				
FLAT IRON (DELUXE)	1,000	8hrs/wk															32				
FLOOR POLISHER (STANDARD)	200	0.5	3.00																		
FLOOR POLISHER (DELUXE)	360	0.5	5.40																		
FLUORESCENT LAMP (40 W)	53	4		1.59		3.18	4.77	6.36	7.95	9.54	11.13	12.72	19.08	22.26	38.16						
FLUORESCENT LAMP (32 W)	42	4		1.26		2.52	3.78	5.04	6.3	7.56	8.82	10.08	15.12	17.64	30.24						
FLUORESCENT LAMP (20 W)	32	4		0.96		1.92	2.88	3.84	4.8	5.76	6.72	7.68	11.52	13.44	23.04						
FLUORESCENT LAMP (18 W)	29	4		0.87		1.74	2.61	3.48	4.35	5.22	6.09	6.96	10.44	12.18	20.88						
FLUORESCENT LAMP (16 W)	26	4		0.78		1.56	2.34	3.12	3.9	4.68	5.46	6.24	9.36	10.92	18.72						
FLUORESCENT LAMP (14 W)	22	4		0.66		1.32	1.98	2.64	3.3	3.96	4.62	5.28	7.92	9.24	15.84						
FLUORESCENT LAMP (12 W)	19	4		0.57		1.14	1.71	2.28	2.85	3.42	3.99	4.56	6.84	7.98	13.68						
FREEZER, CHEST (8 CU. FT.)	160	14								28.8	33.6	38.4	57.6	67.2	115.2						
FREEZER, CHEST (10 CU. FT.)	180	14								32.4	37.8	43.2	64.8	75.6	129.6						
FREEZER, CHEST (12 CU. FT.)	200	14								36	42	48	72	84	144						
FREEZER, CHEST (14 CU. FT.)	220	14								39.6	46.2	52.8	79.2	92.4	158.4						
FREEZER, CHEST (16 CU. FT.)	240	14								43.2	50.4	57.6	86.4	100.8	172.8						
FREEZER, CHEST (18 CU. FT.)	260	14								46.8	54.6	62.4	93.6	109.2	187.2						
FREEZER, CHEST (20 CU. FT.)	280	14								50.4	58.8	67.2	100.8	117.6	201.6						
FREEZER, UPRIGHT (8 CU. FT.)	150	14								27	31.5	36	54	63	108						
FREEZER, UPRIGHT (10 CU. FT.)	170	14								30.6	35.7	40.8	61.2	71.4	122.4						
FREEZER, UPRIGHT (12 CU. FT.)	190	14								34.2	39.9	45.6	68.4	79.8	136.8						

**AVERAGE MONTHLY ENERGY CONSUMPTION OF ELECTRIC APPLIANCES/FIXTURES
HRS PER DAY**

APPLIANCES/FIXTURES	WATTS	HRS/DAY	0.5	1	1.5	2	3	4	5	6	7	8	12	14	24	10 hrs/26	8 hrs/wk	4 hrs/wk	3 hrs/wk	2 hrs/wk	1 hr/mo	
FRYER	680	1		20.4		40.8																
GRILLER	1,200	2hrs/wk																				4.80
HAIR BLOWER (PARLOR USE)	1,000	2		30		60	90	120	150	180	210	240	360	420	720							
HAIR DRYER	320	0.1		9.6		19.2	28.8	38.4	48	57.6	67.2	76.8	115.2	134.4	230.4							
HAIR STEAMER (PARLOR USE)	650	2		19.5		39	58.5	78	97.5	117	136.5	156	234	273	468							
INCANDESCENT BULB	10	4		0.3		0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.6	4.2	7.2							
INCANDESCENT BULB	25	4		0.75		1.5	2.25	3	3.75	4.5	5.25	6	9	10.5	18							
INCANDESCENT BULB	40	4		1.2		2.4	3.6	4.8	6	7.2	8.4	9.6	14.4	16.8	28.8							
INCANDESCENT BULB	50	4		1.5		3	4.5	6	7.5	9	10.5	12	18	21	36							
INCANDESCENT BULB	60	4		1.8		3.6	5.4	7.2	9	10.8	12.6	14.4	21.6	25.2	43.2							
INCANDESCENT BULB	100	4		3		6	9	12	15	18	21	24	36	42	72							
LD PLAYER	45	2		1.35		2.7	4.05	5.4														
MEAT CHOPPER	700	2hrs/wk																				2.80
MOTOR 1.0 HP (RESIDENTIAL)	746	4		22.38		44.76	67.14	89.52	111.9	134.28												
MOTOR 1.0 HP (COMMERCIAL)	746	8							111.9	134.28	156.66	179.04										
NEBULIZER	184	3hrs/wk																				
ORGAN, ELECTRIC	150	4hrs/wk																				
OSTERIZER	300	2hrs/wk																				2.40
OVEN, MICROWAVE	1,000	1hr/wk																				
OVEN, PIZZA (SMALL) (COMMERCIAL)	2,000	4hrs/wk																				
OVEN, PIZZA (BIG) (COMMERCIAL)	3,600	4hrs/wk																				
OVEN, MINI	1,500	2hrs/wk																				12.00
OVEN TOASTER	750	2hrs/wk																				6.00
OVERHEAD PROJECTOR	500	2		15		30	45	60														
PLAYSTATION	45	4		1.35		2.7	4.05	5.4	6.75	8.1	9.45	10.8	16.2	18.9	32.4							
POPCORN POPPER	1,200	2hrs/wk																				
RANGE, HOOD	92	5		2.76		5.52	8.28	11.04	13.8	16.56												
RANGE (4-BURNER)	8,200	3		246		492	738	984														
RANGE (2-BURNER)	3,300	3		99		198	297	396														
REFRIGERATOR (6 CU. FT.)	100	14								18	21	24	36	42	72							
REFRIGERATOR (7 CU. FT.)	120	14								21.6	25.2	28.8	43.2	50.4	86.4							
REFRIGERATOR (8 CU. FT.)	130	14								23.4	27.3	31.2	46.8	54.6	93.6							
REFRIGERATOR (9 CU. FT.)	140	14								25.2	29.4	33.6	50.4	58.8	100.8							
REFRIGERATOR (10 CU. FT.)	155	14								27.9	32.55	37.2	55.8	65.1	111.6							
REFRIGERATOR (11 CU. FT.)	170	14								30.6	35.7	40.8	61.2	71.4	122.4							
REFRIGERATOR (12 CU. FT.)	185	14								33.3	38.85	44.4	66.6	77.7	133.2							
REFRIGERATOR (14 CU. FT.)	215	14								38.7	45.15	51.6	77.4	90.3	154.8							
REFRIGERATOR (15 CU. FT.)	230	14								41.4	48.3	55.2	82.8	96.6	165.6							
REFRIGERATOR (16 CU. FT.)	245	14								44.1	51.45	58.8	88.2	102.9	176.4							
REFRIGERATOR, FROST-FREE, (7 CU. FT.)	220	14								39.6	46.2	52.8	79.2	92.4	158.4							
REFRIGERATOR, FROST-FREE, (8 CU. FT.)	250	14								45	52.5	60	90	105	180							

**AVERAGE MONTHLY ENERGY CONSUMPTION OF ELECTRIC APPLIANCES/FIXTURES
HRS PER DAY**

APPLIANCES/FIXTURES	WATTS	HRS/DAY	0.5	1	1.5	2	3	4	5	6	7	8	12	14	24	10 hrs/26	8 hrs/wk	4 hrs/wk	3 hrs/wk	2 hrs/wk	1 hr/mo
REFRIGERATOR, FROST-FREE, (9 CU. FT.)	280	14								50.4	58.8	67.2	100.8	117.6	201.6						
REFRIGERATOR, FROST-FREE, (10 CU. FT.)	300	14								54	63	72	108	126	216						
REFRIGERATOR, FROST-FREE, (11 CU. FT.)	320	14								57.6	67.2	76.8	115.2	134.4	230.4						
REFRIGERATOR, FROST-FREE, (14 CU. FT.)	380	14								68.4	79.8	91.2	136.8	159.6	273.6						
REFRIGERATOR, FROST-FREE, (16 CU. FT.)	670	14								120.6	140.7	160.8	241.2	281.4	482.4						
REFRIGERATOR, FROST-FREE, (19 CU. FT.)	800	14								144	168	192	288	336	576						
SCANNER, COMPUTER (COMMERCIAL)	12	2		0.36		0.72	1.08	1.44													
SEALER, PLASTIC (COMMERCIAL)	200	4		6		12	18	24													
SEWING MACHINE	75	2hrs/wk																			0.60
SEWING MACHINE (COMMERCIAL)	187	8		5.61		11.22	16.83	22.44	28.05	33.66	39.27	44.88	67.32	78.54	134.64						
SOFTDRINK COOLER	100	14								18	21	24	36	42	72						
SOFTDRINK VENDO (COMMERCIAL)	140	14								25.2	29.4	33.6	50.4	58.8	100.8						
SOLDERING IRON	100	2		3		6															
STEREO (SOLID STATE)	160	1		4.8		9.6	14.4														
STEREO (COMPONENT SYSTEM)	380	1		11.4		22.8	34.2														
STEREO (MINI-COMPONENT)	145	1		4.35		8.7	13.05														
STEREO (MINI-COMPONENT W/ VCD)	185	1		5.55		11.1	16.65														
STOVE (6" COIL OR HOT PLATE)	1,500	3		45		90	135	180													
STOVE (8" COIL OR HOT PLATE)	2,200	3		66		132	198	264													
STOVE (10" COIL OR HOT PLATE)	2,900	3		87		174	261	348													
TAPE RECORDER (CASSETTE)	50	1		1.5		3	4.5	6													
TURBO BROILER	1,000	2hrs/wk																			8.00
TV SET (B&W 12")	32	5		0.96		1.92	2.88	3.84	4.8	5.76	6.72	7.68									
TV SET (B&W 14")	36	5		1.08		2.16	3.24	4.32	5.4	6.48	7.56	8.64									
TV SET (B&W 16")	40	5		1.2		2.4	3.6	4.8	6	7.2	8.4	9.6									
TV SET (B&W 20")	55	5		1.65		3.3	4.95	6.6	8.25	9.9	11.55	13.2									
TV SET (COLOR 12")	65	5		1.95		3.9	5.85	7.8	9.75	11.7	13.65	15.6									
TV SET (COLOR 14")	80	5		2.4		4.8	7.2	9.6	12	14.4	16.8	19.2									
TV SET (COLOR 16")	85	5		2.55		5.1	7.65	10.2	12.75	15.3	17.85	20.4									
TV SET (COLOR 18")	90	5		2.7		5.4	8.1	10.8	13.5	16.2	18.9	21.6									
TV SET (COLOR 20")	110	5		3.3		6.6	9.9	13.2	16.5	19.8	23.1	26.4									
TV SET (COLOR 26")	130	5		3.9		7.8	11.7	15.6	19.5	23.4	27.3	31.2									
TV SET (COLOR 27")	135	5		4.05		8.1	12.15	16.2	20.25	24.3	28.35	32.4									
TV SET (COLOR 29")	145	5		4.35		8.7	13.05	17.4	21.75	26.1	30.45	34.8									
TV SET (COLOR 32")	160	5		4.8		9.6	14.4	19.2	24	28.8	33.6	38.4									
TV SET (COLOR 42")	210	5		6.3		12.6	18.9	25.2	31.5	37.8	44.1	50.4									
VACUUM CLEANER	800	3hrs/wk																			9.6
VCD PLAYER	45	4		1.35		2.7	4.05	5.4	6.75	8.1	9.45	10.8	16.2	18.9	32.4						
VENDO, SOFTDRINK (COMMERCIAL)	140	14		4.2		8.4	12.6	16.8	21	25.2	29.4	33.6	50.4	58.8	100.8						

**AVERAGE MONTHLY ENERGY CONSUMPTION OF ELECTRIC APPLIANCES/FIXTURES
HRS PER DAY**

APPLIANCES/FIXTURES	WATTS	HRS/DAY	0.5	1	1.5	2	3	4	5	6	7	8	12	14	24	10 hrs/26	8 hrs/wk	4 hrs/wk	3 hrs/wk	2 hrs/wk	1 hr/mo
VIDEO MACHINE (29"TV) KARAOKE	290	8		8.7		17.4	26.1	34.8	43.5	52.2	60.9										
VIDEO MACHINE (21"TV) KARAOKE	255	8		7.65		15.3	22.95	30.6	38.25	45.9	53.55										
VIDEO MACHINE (14"TV) KARAOKE	225	8		6.75		13.5	20.25	27	33.75	40.5	47.25										
VIDEO GAME MACHINE (21"TV) (COMMERCIAL)	155	8		4.65		9.3	13.95	18.6	23.25	27.9	32.55										
VIDEO GAME MACHINE (14"TV) (COMMERCIAL)	125	8		3.75		7.5	11.25	15	18.75	22.5	26.25										
WASHING MACHINE (NON-AUTOMATIC)	280	1.5		8.4		16.8	25.2	33.6													
WASHING MACHINE (AUTOMATIC)	585	1.5		17.55		35.1	52.65	70.2													
WASHING MACHINE (AUTOMATIC, 7KG)	1,150	1.5		34.5		69	103.5	138													
WATER DISPENSER, COLD	100	14		3		6	9	12	15	18	21	24	36	42	72						
WATER DISPENSER, HOT & COLD	500	4		15		30	45	60	75	90	105	120	180	210	360						
WATER FILTER/PURIFIER	16	4		0.48		0.96	1.44	1.92	2.4	2.88	3.36	3.84	5.76	6.72	11.52						
WATER HEATER	3,000	2		90		180															
WATER HEATER (INSTANT, PORTABLE)	1,600	0.08		48		96	144	192	240	288	336	384	576	672	1152						
WATER PUMP (AUTOMATIC, 0.5 HP)	373	5		11.19		22.38	33.57	44.76	55.95	67.14											
WATER PUMP (AUTOMATIC, 1.0 HP)	746	5		22.38		44.76	67.14	89.52	111.9	134.28											
WATER PUMP (0.5 HP) COMM'L USE	373	10						44.76	55.95	67.14	78.33	89.52	134.28	156.66	268.56						
WATER PUMP (1.0 HP) COMM'L USE	746	10						89.52	111.9	134.28	156.66	179.04	268.56	313.32	537.12						
WELDING MACHINE (50A) (COMMERCIAL)	2,000	2		60		120	180	240													
WELDING MACHINE (100A) (COMMERCIAL)	4,000	2		120		240	360	480													
WELDING MACHINE (150A) (COMMERCIAL)	5,600	2		168		336	504	672													
WELDING MACHINE (200A) (COMMERCIAL)	8,000	2		240		480	720	960													
WELDING MACHINE (250A) (COMMERCIAL)	10,200	2		306		612	918	1224													
WELDING MACHINE (300A) (COMMERCIAL)	13,000	2		390		780	1170	1560													
WELDING MACHINE (400A) (COMMERCIAL)	17,300	2		519		1038	1557	2076													
WELDING MACHINE (500A) (COMMERCIAL)	20,000	2		600		1200	1800	2400													
X-RAY MACHINE (COMMERCIAL)	16200	1		486		972	1458	1944													
XEROX MACHINE (COMMERCIAL)	250	4		7.5		15	22.5	30	37.5	45											

NOTE:
Hrs. of usage of lighting fixtures depend on its location.