



**RATE SCHEDULE E-20
CLASSIFIED TIME-OF-USE SERVICE
FOR RELIGIOUS HOUSES OF WORSHIP**

AVAILABILITY

This rate schedule is applicable to non-taxable religious houses of worship which were being served on the rate prior to July 1, 2013.

Eligibility for this rate schedule was frozen beginning on July 1, 2013. This means no new Customers will be served under this schedule after that date, and any Customer that moves to another available rate schedule cannot move back to this one. Charges on this schedule may change.

The Company may request a copy of the Internal Revenue Service letter in which the Customer's non-taxable status as a religious organization is determined. Customers also agree to provide the Company a copy of any Internal Revenue Service letter which changes or supersedes that tax status determination.

DESCRIPTION

This rate schedule is specifically for places of worship. It is only available to the actual sanctuary or principal place of worship, and does not apply to separate or combined facilities such as kitchens or meeting rooms.

This rate has three parts: a basic service charge, a demand charge, and an energy charge. The energy charge will vary by season (summer or winter) and both the demand and energy charge will vary by the time of day that the energy is used (On-Peak or Off-Peak).

TIME PERIODS

On-Peak hours: 11:00 a.m. to 9:00 p.m. Monday through Friday.
 Off-Peak hours: All remaining hours.

Summer season: May through October billing cycles
 Winter season: November through April billing cycles

CHARGES

The monthly bill will consist of the following charges, plus adjustments:

Bundled Charges

Basic Service Charge	\$ 2.071	per day
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Demand and Energy Charges			
	Summer	Winter	
On-Peak Demand Charge	\$ 3.822	\$ 3.822	per kW
Off-Peak Excess Demand Charge	\$ 2.456	\$ 2.456	per kW
On-Peak Energy Charge:	\$ 0.15845	\$ 0.13975	per kWh
Off-Peak Energy Charge:	\$ 0.07743	\$ 0.06957	per kWh

In the event Off-Peak kW usage is greater than twice the highest On-Peak kW usage in a month, the difference between the Off-Peak kW usage and twice the On-Peak kW usage will be billed at the Off-Peak Excess Demand Charge. Total On-Peak kW usage for the month will also be billed as shown above.

For billing purposes, the kW used in this rate schedule is based on the average kW used during the 15-minute period of maximum use during the On-Peak period and the Off-Peak period during the month.

Unbundled Standard Offer Service

Bundled Charges consist of the Components shown below. These are not additional charges.

Basic Service Charges		
Customer Accounts	\$ 0.517	per day
Meter Reading	\$ 0.009	per day
Billing	\$ 0.031	per day
Metering	\$ 1.514	per day

Demand Charges		
Transmission Charge On-Peak	\$ 2.870	per kW
Delivery Charge On-Peak	\$ 0.952	per kW
Delivery Charge Excess Off-Peak	\$ 2.456	per kW



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Energy Charges			
	Summer	Winter	
Generation On-Peak	\$ 0.11623	\$ 0.09753	per kWh
Generation Off-Peak	\$ 0.03521	\$ 0.02735	per kWh
Delivery	\$ 0.03891	\$ 0.03891	per kWh
System Benefits	\$ 0.00331	\$ 0.00331	per kWh

ADJUSTMENTS

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment charge, Adjustment Schedule DSMAC-1.
6. The Lost Fixed Cost Recovery Adjustment charge, Adjustment Schedule LFCR.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:

EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.



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2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.
3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.
4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load doesn't meet the requirements the Customer will pay the cost to install and remove the equipment.
5. If the load does not meet the power factor requirements the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.

SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 1/2 HP or more.
3. Electric service is supplied at a single point of delivery and measured through a single meter.
4. The contract period for all Customers receiving service under this rate schedule will be one (1) year at the Company's option.
5. This rate schedule is not available to service for which Rate Schedules E-34 or E-35 is applicable.
6. Direct Access Customers are not eligible for this rate schedule.



AVAILABILITY

This rate schedule is for a pilot rate available only to non-residential Customers that:

- a. have average summer monthly loads of 401 kW and greater;
- b. do not qualify for Rate Schedules E-34 or E-35;
- c. are not taking service under rate rider AG-X or through Direct Access; and
- d. operate a chemical, mechanical, or thermal energy storage system located on their premises that is capable of reducing the customer’s measured peak demand by 20% during the On-Peak Period.

This rate schedule will be capped at a peak demand total of 35,000 kW of installed systems and active interconnection applications, on a first-come first-served basis.

DESCRIPTION

This rate has three parts: a basic service charge, a demand charge for the highest amount of demand (kW) averaged in a 15-minute period for the month, and an energy charge for the energy (kWh) used during the month. The demand and energy charges vary by season (summer or non-summer) and time of day (On-Peak, Remaining, and Off-Peak).

If Customer no longer meets the requirements of this rate schedule, the Company will place the Customer on the applicable Time-of-Use Rate Schedule (E-32TOU XS, E-32 TOU S, E-32 TOU M, E-32 TOU L) based on the Customer’s average summer monthly maximum demand, as determined by the Company each year. This determination will be made annually.

TIME PERIOD

Summer Hours

On-Peak hours:	2:00 pm – 8:00 pm
Remaining hours:	11:00 am – 2:00 pm; 8:00 pm - 11:00 pm
Off-Peak hours:	All remaining hours

Non-Summer Hours

On-Peak hours:	4:00 pm – 10:00 pm
Remaining hours:	6:00 am – 10:00 am; 3:00 pm - 4:00 pm; 10:00 pm - 11:00 pm
Off-Peak hours:	All remaining hours

Summer season:	June through September billing cycles
Non-Summer season:	October through May billing cycles



**RATE SCHEDULE E-32 L SP
LARGE GENERAL SERVICE (401 kW +)
STORAGE PILOT**

CHARGES

The monthly bill will consist of the following charges, plus adjustments:

Bundled Charges

Basic Service Charge (only one applies)		
For service through Self-Contained Meters	\$ 27.303	per day
For service through Instrument-Rated Meters	\$ 28.185	per day
For service at Primary Voltage	\$ 31.185	per day
For service at Transmission Voltage	\$ 63.534	per day

Demand Charges (only one set applies)			
Secondary	Summer On-Peak and Remaining kW	\$ 24.346	per kW
	Summer Off-Peak Excess kW	\$ 18.290	per kW
	Non-Summer On-Peak and Remaining kW	\$ 21.284	per kW
	Non-Summer Off-Peak Excess kW	\$ 15.993	per kW
Primary	Summer On-Peak and Remaining kW	\$ 22.305	per kW
	Summer Off-Peak Excess kW	\$ 16.759	per kW
	Non-Summer On-Peak and Remaining kW	\$ 19.242	per kW
	Non-Summer Off-Peak Excess kW	\$ 14.462	per kW
Transmission	Summer On-Peak and Remaining kW	\$ 18.221	per kW
	Summer Off-Peak Excess kW	\$ 13.696	per kW
	Non-Summer On-Peak and Remaining kW	\$ 15.158	per kW
	Non-Summer Off-Peak Excess kW	\$ 11.399	per kW

Energy Charges			
	Summer	Non-Summer	
On-Peak	\$ 0.04900	\$ 0.04496	per kWh
Remaining	\$ 0.04597	\$ 0.04245	per kWh
Off-Peak	\$ 0.04092	\$ 0.03587	per kWh



**RATE SCHEDULE E-32 L SP
LARGE GENERAL SERVICE (401 kW +)
STORAGE PILOT**

Unbundled Components of the Bundled Charges

Bundled Charges consist of the components shown below. These are not additional charges.

Basic Service Charge Components

Customer Accounts Charge	\$ 26.631	per day
Meter Reading	\$ 0.009	per day
Billing	\$ 0.031	per day
Metering* (only one applies)		
Self-Contained Meters	\$ 0.632	per day
Instrument-Rated Meters	\$ 1.514	per day
Primary	\$ 4.514	per day
Transmission	\$ 36.863	per day

*These daily metering charges apply to typical installations. Customers requesting specialized facilities are subject to additional metering charges.

Demand Charge Components

Transmission On-Peak		\$ 2.870	per kW
Generation On-Peak		\$ 8.867	per kW
Generation Off-Peak		\$ 7.979	per kW
Delivery - Secondary	Summer On-Peak and Remaining kW	\$ 12.609	per kW
	Summer Off-Peak Excess kW	\$ 10.311	per kW
	Non-Summer On-Peak and Remaining kW	\$ 9.547	per kW
	Non-Summer Off-Peak Excess kW	\$ 8.014	per kW
Delivery - Primary	Summer On-Peak and Remaining kW	\$ 10.568	per kW
	Summer Off-Peak Excess kW	\$ 8.780	per kW
	Non-Summer On-Peak and Remaining kW	\$ 7.505	per kW
	Non-Summer Off-Peak Excess kW	\$ 6.483	per kW
Delivery - Transmission	Summer On-Peak and Remaining kW	\$ 6.484	per kW
	Summer Off-Peak Excess kW	\$ 5.717	per kW
	Non-Summer On-Peak and Remaining kW	\$ 3.421	per kW
	Non-Summer Off-Peak Excess kW	\$ 3.420	per kW



**RATE SCHEDULE E-32 L SP
LARGE GENERAL SERVICE (401 kW +)
STORAGE PILOT**

Energy Charge Components

System Benefits Charge:	\$ 0.00331	per kWh
Delivery Charge	\$0.00000	Per kWh

	Summer	Non-Summer	
Generation On-Peak	\$ 0.04569	\$ 0.04165	per kWh
Generation Remaining	\$ 0.04266	\$ 0.03914	per kWh
Generation Off-Peak	\$ 0.03761	\$ 0.03256	per kWh

For billing demand purposes, the On-Peak and Remaining hours kW used in this rate schedule will be the greater of the following:

1. The average kW supplied during the 15-minute period of maximum use during the On-Peak and Remaining hours during the billing period, as determined from readings of the Company's meter or in accordance with the Company's Service Schedule 8;
2. The minimum kW specified in the agreement for service or individual contract; or
3. 300 kW.

In addition, the Off-Peak kW will be based on the average kW supplied during the 15-minute period of maximum use during the Off-peak hours of the billing period, as determined from readings of the Company's meter. In the event the Off-peak kW is greater than 150% of the highest On-Peak and Remaining hours kW as defined above for the current month, the difference between such Off-Peak kW and 150% of the On-Peak and Remaining hours kW shall be at the Excess-Off Peak rate.

The monthly bill for service under this rate schedule will not be less than the Bundled Basic Service Charge plus the Bundled Demand Charge for each kW.

ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.



4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:

EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Solar Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.
2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.
3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.
4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load doesn't meet the requirements the Customer will pay the cost to install and remove the equipment.
5. If the load does not meet the power factor requirements the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.



SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 ½ HP or more.
3. Electric service is supplied at a single point of delivery and measured through a single meter.
4. At the Company's option Customer will be required to sign the Company's standard agreement for service. If additional construction is required to serve the Customer, the contract period will be five years. If no additional distribution construction is required to serve the Customer, the contract period will be two years. At the end of these two-year service agreements, a Customer may request to modify the minimum kW in the standard agreement for service to reflect the Customer's actual usage during those two years.



AVAILABILITY

This rate schedule is available in all territory served by the Company at all points where facilities of adequate capacity and the required phase and suitable voltage are adjacent to the premises served.

APPLICATION

This rate schedule is applicable to Standard Offer electric service for start-up and/or auxiliary load requirements for generation plants with a Power Supply capacity requirement of greater than 3 MW. Service must be supplied at one point of delivery and measured through one meter unless otherwise specified by individual Customer contract. This rate schedule may be used in conjunction with other applicable Company rate schedules; however, any service under this schedule is not eligible for Direct Access.

TYPE OF SERVICE

The type of service provided under this rate schedule shall be three-phase, 60 Hertz, at one standard voltage available within the vicinity of the Customer's site.

CHARGES

The bill will be the sum of the Basic Service Charge, Metering Service, Capacity Rate, and Power Supply Service below, including any applicable adjustments:

Basic Service Charge	\$ 7,591.54	per month
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Metering Service

The monthly metering charge will be 1.29% of the total metering cost specified in the Electric Supply Agreement between the Company and the Customer. This percentage will be reduced to 0.35% when the Customer provides all necessary metering equipment and is responsible for its replacement. The Customer will also be responsible for all applicable costs associated with communications facilities used to compile metered usage information.

Capacity Rate (only one applies)		
Secondary Voltage	\$ 5.701	per kW
Primary Voltage	\$ 5.501	per kW
Transmission Voltage	\$ 1.779	per kW



Power Supply		
Hourly Pricing Proxy at the time of Station use		per kWh
Ancillary Service	\$ 0.00062	per kWh

CONTRACT PERIOD

Any applicable contract periods will be set forth in an Electric Supply Agreement between the Customer and the Company.

CONNECTION COSTS

The Customer will pay all applicable connection costs and system improvement costs not otherwise covered in this schedule as a non-refundable contribution in aid of construction, including any associated tax liability.

POWER SUPPLY CAPACITY

Power Supply Capacity kW will be defined as the greater of:

- (a) The amount of capacity (kW) reserved by the Customer in the Electric Supply Agreement; or
- (b) The highest 15 minute measured kW supplied by the Company, by voltage level, to accommodate the start-up of the Customer's generation unit(s) plus any necessary auxiliary load (including generation auxiliary load and/or any other load requirements at the plant site that would otherwise be provided by the Customer when the generation unit(s) are running).

If more than one generation unit is present at a single site, the Electric Supply Agreement may, at the Company's option, allow the Customer to start one unit at a time. In this instance, Power Supply Capacity kW will be defined as the greater of:

- (a) The amount of capacity (kW) reserved by the Customer in the Electric Supply Agreement; or
- (b) The highest 15 minute measured kW supplied by the Company, by voltage level, to accommodate the start-up of one and only one Customer generation unit at any given time plus any necessary auxiliary load (including any or all generation auxiliary load and/or any other load requirements at the entire plant site that would otherwise be provided by the Customer when any or all generation unit(s) are running).



If, during any one billing period, the highest 15 minute measured kW supplied by the Company (by voltage level) exceeds the amount of Power Supply Capacity specified in the Electric Supply Agreement, the Power Supply Capacity reservation (by voltage level) will be permanently increased to equal the higher measured kW. If the Company incurs additional connection costs to provide this added capacity, the Customer is responsible for payment of these costs as specified herein.

DETERMINATION OF HOURLY PRICING PROXY

Hourly pricing proxy will be calculated using the published day ahead Dow Jones Electricity Price Index or successor. APS will calculate a weighted average using the day ahead hub pricing and volumes at Palo Verde, Four Corners, and Mead, for firm on-peak and off-peak prices as expressed on a per kWh basis, at the time Station Use power is supplied to the Customer.

METERING

The Company will normally install a supply meter at the point of delivery to the Customer and a generator meter(s) at the point(s) of output from each of the Customer's generators. However, the Customer can elect to supply this metering as long as it conforms to Company specifications. All meters will record integrated demand and energy on the same 15-minute interval basis as specified by the Company.

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.
2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.
3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.
4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load doesn't meet the requirements the Customer will pay the cost to install and remove the equipment.
5. If the load does not meet the power factor requirements the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.

ADJUSTMENTS

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.



2. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
3. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
4. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

INTERCONNECTION REQUIREMENTS

The Customer must meet all interconnection requirements as determined by the Company. The Customer is responsible for all costs associated with interconnection of the Customer's generation facility to the Company's system.

TERMS AND CONDITIONS

Service under this rate schedule is subject to the Company's Schedule 1, Terms and Conditions for Standard Offer and Direct Access Services, which contains provisions that may affect the Customer's bill. In addition, service may be subject to special terms and conditions as provided for in a Customer contract or service agreement.



**RATE SCHEDULE E-45
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

AVAILABILITY

This rate schedule is applicable to Customers for Dusk to Dawn lighting for service to be rendered after XXX XX, 20XX.

DESCRIPTION

The E-45 rate is available to Customers with Dusk to Dawn lights. These lights are on the Customer's property or a private street and the Customer is charged a monthly fee for the light. This rate schedule is applicable to outdoor lighting which operates only from dusk to dawn and where service can be supplied from the existing secondary facilities of the Company.

TIME PERIOD

Dusk:

Time between sunset and full night when photocontrol senses the lack of sufficient sunlight and turns on the lights.

Dawn:

The time between full night and sunrise when a photocontrol senses sufficient sunlight to turn off the lights.

CHARGES

The monthly bill will consist of the fixture and energy charges, plus adjustments:

I. FIXTURES (Includes Mounting Arm, if applicable)

Fixture Equipment Class	Fixture Cost Range (per unit)	Company Owned Monthly Rate	Customer Owned Monthly Rate
A	\$ 1 - \$ 430	\$5.84	\$0.11
B	\$ 431 - \$ 520	\$7.12	\$0.13
C	\$ 521 - \$ 640	\$8.53	\$0.15
D	\$ 641 - \$ 820	\$10.20	\$0.19
E	\$ 821 - \$ 910	\$12.90	\$0.21
F	\$ 911 - \$ 1,010	\$14.36	\$0.23
G	\$ 1,011 - \$ 1,110	\$15.70	\$0.25
H	\$ 1,111 - \$ 1,250	\$17.81	\$0.27
I	\$ 1,251 - \$ 1,520	\$19.81	\$0.32
J	\$ 1,521 - \$ 1,670	\$23.86	\$0.35
K	\$ 1,671 - \$ 1,850	\$27.11	\$0.39

Note: Equipment cost greater than \$1,850 shall be Customer owned.



II. ENERGY (Includes Generation, T&D, RCS & SBC)

Monthly energy charges for new lighting fixtures will be determined by the Company using the following method:

$$\text{kWh} = \text{Fixture Wattage} \times 344 \text{ Usage Hours}$$

$$\text{Generation} = \text{kWh per month} \times \$0.07006$$

$$\text{T\&D, RCS, System Benefits} = \text{kWh per month} \times \$0.02838$$

NOTES:

1. Company Owned fixtures are those fixtures that the Company installs, owns, maintains, and operates.
2. Customer Owned fixtures are those fixtures where the Customer owns and maintains the lighting fixtures, and the Company approves the installation and operates the fixtures.
3. APS has adopted LED lighting technology as its standard lighting technology, and LED lights do not include replaceable lamps (High Pressure Sodium Lights "HPS" were discontinued by most manufacturers).
4. Listed kWh reflects the assigned monthly energy usage for each type of fixture and are used to determine any applicable transmission, system benefit, distribution, energy, and adjustment charges.
5. kWh is determined by the company based on the rated wattage of the equipment and an established average hourly usage per month.



**RATE SCHEDULE E-45
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

III. POLES

			CHARGES	
			Height	Company Owned
A. Anchor Base Mounted	Round Steel	1 Simplex Adapter	12 ft.	\$13.59
			22 ft.	\$15.29
			25 ft.	\$16.55
			30 ft.	\$19.01
			32 ft.	\$19.97
	Round Steel	2 Simplex Adapters	12 ft.	\$14.49
			22 ft.	\$16.64
			25 ft.	\$17.36
			30 ft.	\$20.18
			32 ft.	\$21.53
	Square Steel	5"	13 ft.	\$15.58
			15 ft.	\$13.92
			23 ft.	\$16.51
			25 ft.	\$18.15
			28 ft.	\$20.15
			32 ft.	\$20.03
	Concrete		12 ft.	\$46.42
	Fiberglass		12 ft.	\$39.31
	Decorative Transit	4"	16 ft.	\$38.33
Decorative Transit	6"	30 ft.	\$73.99	
Hinged	Square	15 ft.	\$14.73	
	Round	19 ft.	\$13.32	
B. Anchor Base Mounted (Pedestal)	Round Steel	1 Simplex Adapter	12 ft.	\$13.07
			22 ft.	\$14.78
			25 ft.	\$16.02
			30 ft.	\$18.50
			32 ft.	\$19.43
	Round Steel	2 Simplex Adapters	12 ft.	\$13.96
			22 ft.	\$15.60
			25 ft.	\$16.83
			30 ft.	\$19.66
			32 ft.	\$21.00
		3 Bolt	32 ft.	\$24.13
	Square Steel	5"	13 ft.	\$15.07
			15 ft.	\$15.40
			23 ft.	\$15.99
			25 ft.	\$17.64
			28 ft.	\$19.60
			32 ft.	\$20.34



**RATE SCHEDULE E-45
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

III. POLES (cont)

		Height	CHARGES Company Owned		
C. Direct Bury	Round Steel	19 ft.	\$20.56		
		30 ft.	\$16.05		
		38 ft.	\$19.59		
		Self-Support	40 ft.	\$24.13	
		Stepped	25 ft.	\$55.50	
			32 ft.	\$58.45	
			49 ft.	\$72.55	
		Square Steel	4"	34 ft.	\$17.71
			5"	20 ft.	\$16.82
	30 ft.			\$17.54	
	38 ft.			\$19.03	
	8"		28 ft.	\$31.76	
			32 ft.	\$33.20	
	Decorative Transit		41 ft. 6 in.	\$22.85	
Decorative Transit		47 ft.	\$28.47		
Steel Distribution Pole (for lighting)		35 ft.	\$26.28		
D. Post Top	Decorative Transit Anchor		16 ft. \$39.14		
	Gray Steel/Fiberglass		23 ft. \$13.58		
	Black Steel		23 ft. \$14.97		

NOTES:

1. All distribution lines required to serve dusk to dawn facilities are owned by the Company.
2. Monthly charges for all new Company owned poles include up to 100 feet of overhead secondary wire, or up to 100 feet of underground secondary line if Customer provides earthwork and conduit (excluding the overhead to underground transition). Any additional wire required (over and above the first 100 feet provided) to install fixtures is subject to the additional monthly wire charges specified in Section V below.
3. When adding lighting fixtures to an existing Company owned or Customer owned pole, any and all additional distribution wire required is subject to the additional monthly wire charges specified in Section V below.



**RATE SCHEDULE E-45
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

IV. ANCHOR BASE

		CHARGES	
		Height	Company Owned
A. Flush		4 ft.	\$11.06
		6 ft.	\$13.19
B. Pedestal		8 ft.	\$15.12
	For 32' Round Steel Pole only	4 ft. 6"	\$10.49

V. CHARGES FOR OPTIONAL OR ADDITIONAL EQUIPMENT

		CHARGE
		Company Owned
1.	Each 100 feet of overhead secondary wire, or each 100 feet of underground secondary wire, if Customer provides earthwork and conduit.	\$3.91

VI. DETERMINATION OF CHARGES FOR NEW EQUIPMENT

Monthly charges for new lighting fixtures, poles and other equipment will be determined by the Company using the installed equipment multiplied by a monthly fixed charge rate specified in Section I or Section II above.

Any maintenance costs not designated within the E-45 Rate Schedule will be outlined in a maintenance agreement executed between the Company and the Customer.

TRIP CHARGE

A \$150.00 trip charge per light will be charged when a Customer requests a disconnect and/or reconnect of service in order to accommodate the maintenance activities of the Customer or its designee(s) on their dusk to dawn equipment.

ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.



4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. Direct Access Customers returning to Standard Offer service may be subject to a Returning Customer Direct Access Charge, Adjustment Schedule RCDAC-1.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

SERVICE DETAILS

1. The Customer is not authorized to make connections to the lighting circuits or to make attachments without prior notification to the Company. The Company may recalculate the rate or change the rate eligibility in such instances.
2. Should a Customer request relocation of a Dusk to Dawn lighting installation, the costs of such relocation will be paid by the Customer.
3. The Customer will be responsible for notifying the Company when the dusk to dawn facilities are not operating as intended. The Company will use reasonable efforts to complete normal maintenance (replacement of photocontrols or fixtures) within ten (10) working days from notification by Customer. If the maintenance requires cable replacement or repairs, the Company will use reasonable efforts to complete said repairs within twenty (20) working days.
4. The Customer's bill will not be reduced due to photocontrol or cable repair or replacement outages.
5. The Customer may cancel a lighting service agreement by payment of the bill including the applicable tax adjustment multiplied by the number of remaining months of the initial agreement, or the calculated installation and removal costs for the extension, whichever is lower.
6. Lighting equipment, which is not specified in this rate schedule, will be billed at the rates corresponding to the most similar equipment, as determined by the Company.
7. Lighting Equipment and services with an initial Company cost exceeding \$25,000 will require a financial liability agreement between the Company and the Customer.
8. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill. In addition, service may be subject to special terms and conditions as provided for in a Customer contract or service agreement.



NON-STANDARD FACILITIES - CUSTOMER OWNED

When the Customer requests any non-standard Dusk to Dawn lighting facilities (non-standard being defined as any equipment not listed in the Company's Transmission and Distribution Construction Standards book), the Customer will own, operate, and maintain all components to the system excluding the distribution facilities installed by the Company to serve the lighting system. Monthly bills rendered for non-standard facilities will consist of the following rates, plus any adjustments incorporated in this schedule. KWh will be determined by the Company, based on the rated wattage of the equipment and an estimated average hourly usage per month.

A.	Service Charge	\$3.74	per installed fixture per month
B.	Energy Charge	\$0.07255	per kWh per month

CONTRACT PERIOD

All Dusk to Dawn lighting installations will require a written agreement for service for a minimum of ten (10) years from the date of initial delivery of service. It shall continue in effect thereafter, unless terminated by either party on thirty (30) days' written notice.



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

AVAILABILITY

This rate schedule is applicable to Customers for Dusk to Dawn lighting.

DESCRIPTION

The E-47 rate is available to Customers with Dusk to Dawn lights. These lights are on the Customer's property or a private street and the Customer is charged a monthly fee for the light. This rate schedule is applicable to outdoor lighting which operates only from dusk to dawn and where service can be supplied from the existing secondary facilities of the Company.

TIME PERIOD

Dusk:

Time between sunset and full night when photocontrol senses the lack of sufficient sunlight and turns on the lights.

Dawn:

The time between full night and sunrise when a photocontrol senses sufficient sunlight to turn off lights.

CHARGES

The monthly bill will consist of the following charges, plus adjustments:

I. FIXTURES (Includes Mounting Arm, if Applicable)

	Lumen	Watts	kWh	CHARGES	
				Company Owned	Customer Owned
A. Acorn	3,835 LED	75	26	\$22.42	\$2.84
	4,796 LED	75	26	\$18.01	\$2.79
	5,003 LED	100	35	\$24.30	\$3.74
	5,904 LED	100	35	\$23.87	\$3.74
	6,000 IND	85	29	\$19.94	\$3.09
B. Architectural	6,200 IND	85	29	\$10.50	\$3.09
	8,400 IND	100	34	\$11.08	\$3.51
	10,200 IND	120	41	\$12.18	\$4.09
	13,000 IND	150	52	\$13.45	\$5.02
	20,500 IND	200	69	\$15.32	\$6.46
	22,500 IND	265	91	\$18.27	\$8.30
	3,300 LED	43	15	\$10.61	\$1.62



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

				CHARGES	
B. Architectural	3,800 LED	32	12	\$8.01	\$1.30
	3,900 LED	32	12	\$10.32	\$1.33
	4,050 LED	63	22	\$19.31	\$2.41
	4,100 LED	45	16	\$10.72	\$1.72
	4,800 LED	41	15	\$8.57	\$1.60
	5,000 LED	41	15	\$9.96	\$1.61
	5,100 LED	60	21	\$10.55	\$2.20
	5,300 LED	67	24	\$10.85	\$2.50
	5,800 LED	94	32	\$18.46	\$3.35
	5,890 LED	89	31	\$21.31	\$3.32
	6,000 LED	62	22	\$19.31	\$2.41
	6,000 LED	67	24	\$20.61	\$2.62
	6,810 LED	101	35	\$19.58	\$3.69
	7,100 LED	62	22	\$20.42	\$2.43
	7,400 LED	127	44	\$21.16	\$4.35
	7,500 LED	73	26	\$20.81	\$2.82
	7,700 LED	86	30	\$19.08	\$3.19
	8,200 LED	88	31	\$10.83	\$3.18
	8,200 LED	95	33	\$12.30	\$3.39
	8,300 LED	72	25	\$18.58	\$2.69
	8,300 LED	106	37	\$12.90	\$3.78
	8,500 LED	88	31	\$12.12	\$3.20
	9,020 LED	139	48	\$23.78	\$4.99
	9,900 LED	130	45	\$14.32	\$4.58
	10,000 LED	93	32	\$22.21	\$3.42
	10,000 LED	113	39	\$13.74	\$4.00
	10,600 LED	126	44	\$23.38	\$4.59
	11,100 LED	108	38	\$13.22	\$3.89
	11,500 LED	108	38	\$13.64	\$3.90
	12,300 LED	203	70	\$26.41	\$6.54
12,900 LED	119	41	\$23.12	\$4.30	
13,260 LED	202	70	\$28.10	\$7.19	
14,000 LED	171	59	\$27.02	\$6.11	
15,000 LED	136	47	\$25.84	\$4.93	
15,400 LED	144	50	\$26.13	\$5.22	
18,300 LED	162	56	\$16.72	\$5.69	
19,200 LED	257	89	\$27.85	\$9.04	
20,000 LED	258	89	\$27.85	\$9.04	
20,300 LED	193	67	\$17.79	\$6.77	
21,000 LED	193	67	\$25.67	\$6.86	



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

I. FIXTURES (Includes Mounting Arm, if Applicable (cont.))

				CHARGES				
				Company Owned	Customer Owned			
				Lumen	Watts	kWh		
C. Cobra				6,200 IND	75	26	\$10.92	\$2.84
				6,400 IND	85	29	\$9.30	\$3.09
				8,000 IND	88	30	\$10.85	\$3.17
				8,400 IND	100	34	\$10.05	\$3.51
				10,200 IND	120	41	\$10.82	\$4.09
				13,000 IND	150	52	\$11.92	\$5.02
				15,250 IND	200	69	\$14.36	\$6.46
				22,500 IND	250	86	\$19.23	\$7.88
		Gray/Bronze		3,500 IND	55	19	\$10.88	\$2.24
				6,000 LED	95	33	\$17.67	\$3.43
				8,700 LED	142	49	\$19.87	\$4.77
				9,600 LED	157	54	\$21.14	\$5.19
				11,600 B-LED	181	62	\$19.72	\$5.86
		Gray/Bronze		3,300 LED	43	15	\$9.33	\$1.91
		Gray/Bronze		5,300 LED	67	23	\$10.83	\$2.58
	Gray/Bronze		8,300 LED	106	37	\$14.04	\$3.76	
	Gray/Bronze		10,500 LED	130	45	\$15.63	\$4.44	
	Gray/Bronze		20,000 LED	258	89	\$27.16	\$8.15	
D. Decorative Transit				5,300 LED	75	26	\$29.48	\$2.84
				8,300 LED	100	34	\$31.56	\$3.51
				8,147 LED	75	26	\$37.06	\$3.03
				9,522 LED	100	35	\$37.46	\$3.91
				10,500 LED	150	52	\$33.88	\$5.02
				14,896 LED	150	52	\$41.44	\$5.61
		Double		8,147 LED	75	26	\$67.10	\$3.23
		Double		9,522 LED	100	35	\$67.02	\$4.12
		Double		14,896 LED	100	52	\$73.24	\$5.79
	Copper		6,000 IND	85	29	\$19.56	\$3.09	
	Gray/Black		8,000 IND	88	30	\$15.40	\$3.17	
	Gray/Black		4,350 LED	86	30	\$13.97	\$3.17	



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

I. FIXTURES (Includes Mounting Arm, if Applicable (cont.))

	Lumen	Watts	kWh	CHARGES	
				Company Owned	Customer Owned
E. Flood	14,470 LED	148	51	\$24.80	\$5.31
	16,000 LED	125	43	\$24.01	\$4.52
F. Pendant	8,678 LED	75	26	\$27.32	\$2.90
	13,964 LED	100	35	\$28.85	\$3.80
G. Post Top	4,350 LED	86	30	\$13.92	\$3.12
	6,400 LED	30	30	\$13.92	\$3.12
	6,600 LED	83	29	\$13.82	\$3.02
H. Roadway	3,300 LED	43	15	\$9.80	\$1.61
	3,800 LED	32	12	\$7.50	\$1.30
	3,900 LED	32	12	\$9.51	\$1.32
	4,100 LED	45	16	\$9.91	\$1.71
	4,800 LED	41	15	\$8.04	\$1.59
	5,000 LED	41	15	\$9.45	\$1.61
	5,100 LED	60	21	\$10.04	\$2.20
	5,300 LED	67	24	\$10.34	\$2.50
	8,200 LED	88	31	\$10.07	\$3.17
	8,200 LED	95	33	\$11.77	\$3.38
	8,300 LED	106	37	\$12.17	\$3.77
	8,500 LED	88	31	\$11.59	\$3.19
	9,900 LED	130	45	\$13.79	\$4.57
	10,000 LED	113	39	\$13.21	\$3.99
	11,100 LED	108	38	\$12.47	\$3.89
	11,500 LED	108	38	\$13.11	\$3.89
	18,300 LED	162	56	\$15.78	\$5.67
	19,200 LED	257	89	\$19.81	\$8.93
20,000 LED	258	89	\$19.81	\$8.93	
20,300 LED	193	67	\$16.86	\$6.75	
21,000 LED	193	67	\$17.63	\$6.76	



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

I. FIXTURES (Includes Mounting Arm, if Applicable (cont.))

				CHARGES			
				Company Owned	Customer Owned		
				Lumen	Watts	kWh	
FROZEN	4,000 INC			295	103	\$10.92	\$6.10
	7,000 MV			175	73	\$8.12	\$14.15
	20,000 MV			400	150	\$27.82	\$15.76
FROZEN ACORN	9,500 HPS			100	41	\$30.20	\$10.29
	16,000 HPS			150	69	\$33.53	\$13.01
FROZEN ARCHITECTURAL	9,500 HPS			100	41	\$17.16	\$7.97
	16,000 HPS			150	69	\$20.04	\$10.97
	30,000 HPS			250	99	\$23.79	\$14.06
	50,000 HPS			400	153	\$29.35	\$20.24
	14,000 MH			175	72	\$24.01	\$13.16
	21,000 MH			250	101	\$27.27	\$16.23
	36,000 MH			400	159	\$34.09	\$22.32
	8,000 LPS			55	30	\$24.96	\$10.97
	13,500 LPS			90	50	\$29.42	\$13.22
	22,500 LPS			135	72	\$33.61	\$16.13
	33,000 LPS			180	90	\$40.43	\$19.00
FROZEN COBRA ROADWAY	5,800 HPS			70	29	\$9.74	\$5.76
	9,500 HPS			100	41	\$11.47	\$7.06
	16,000 HPS			150	69	\$14.36	\$9.85
	30,000 HPS			250	99	\$17.33	\$12.80
	50,000 HPS			400	153	\$23.52	\$18.27
	14,000 MH			175	72	\$16.71	\$11.39
	21,000 MH			250	101	\$19.53	\$14.17
	36,000 MH			400	159	\$25.71	\$19.68
FROZEN DECORATIVE TRANSIT	8,000 FL			100	38	\$19.20	\$5.63
	9,500 HPS			100	41	\$41.40	\$12.40
	16,000 HPS			150	69	\$41.17	\$7.05
	30,000 HPS			250	99	\$47.40	\$17.89
FROZEN FLOOD	30,000 HPS			250	99	\$23.01	\$14.29
	50,000 HPS			400	153	\$28.53	\$19.84
	21,000 MH			250	101	\$24.55	\$15.11
FROZEN POST TOP	36,000 MH			400	159	\$29.94	\$20.48
	8,000 FL			100	38	\$20.70	\$5.85
	Colonial	9,500 HPS		100	41	\$11.84	\$7.42
	Colonial	9,500 HPS		100	41	\$13.63	\$7.68
	Decorative	9,500 HPS		100	41	\$36.24	\$11.43
Brackets over 8 ft. and up to 16 ft. in length						\$1.92	--



- NOTES:
1. Company Owned fixtures are those fixtures that the Company installs, owns, and operates.
 2. Customer Owned fixtures are those fixtures where the Customer owns and maintains the lighting fixtures, and the Company approves the installation, operates the fixtures, and replaces Company standard lamps only. The Company may replace standard lamps if it has a maintenance agreement with the customer.
 3. Listed kWh reflect the assigned monthly energy usage for each type of fixture and are used to determine any applicable transmission, system benefit, distribution, energy, and adjustment charges.
 4. HPS = High Pressure Sodium
 5. MH = Metal Halide
 6. LPS = Low Pressure Sodium
 7. FL = Fluorescent
 8. INC = Incandescent. Incandescent lighting charges are applicable and available only to those Customers being served and those installations in service on April 21, 1983.
 9. MV = Mercury Vapor. Mercury Vapor lighting charges are applicable and available only to those Customers being served and those installation in service on June 1, 1987 in accordance with A.R.S. §49-1104(A).
 10. LED = Light Emitting Diode
 11. IND = Induction
 13. B-LED = Beta Light Emitting Diode



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

II. POLES

			CHARGES		
			Height	Company Owned	
A. Anchor Base Mounted	Round Steel	1 Simplex Adapter	12 ft.	\$13.59	
			22 ft.	\$15.29	
			25 ft.	\$16.55	
			30 ft.	\$19.01	
			32 ft.	\$19.97	
	Round Steel	2 Simplex Adapters	12 ft.	\$14.49	
			22 ft.	\$16.64	
			25 ft.	\$17.36	
			30 ft.	\$20.18	
			32 ft.	\$21.53	
	Square Steel	5"	13 ft.	\$15.58	
			15 ft.	\$13.92	
			23 ft.	\$16.51	
			25 ft.	\$18.15	
			28 ft.	\$20.15	
			32 ft.	\$20.03	
		Concrete		12 ft.	\$46.42
		Fiberglass		12 ft.	\$39.31
		Decorative Transit	4"	16 ft.	\$38.33
	Decorative Transit	6"	30 ft.	\$73.99	
	Hinged	Square	15 ft.	\$14.73	
Round		19 ft.	\$13.32		
B. Anchor Base Mounted (Pedestal)	Round Steel	1 Simplex Adapter	12 ft.	\$13.07	
			22 ft.	\$14.78	
			25 ft.	\$16.02	
			30 ft.	\$18.50	
			32 ft.	\$19.43	
	Round Steel	2 Simplex Adapters	12 ft.	\$13.96	
			22 ft.	\$15.60	
			25 ft.	\$16.83	
			30 ft.	\$19.66	
			32 ft.	\$21.00	
			3 Bolt	32 ft.	\$24.13
	Square Steel	5"	13 ft.	\$15.07	
			15 ft.	\$15.40	
			23 ft.	\$15.99	
			25 ft.	\$17.64	
			28 ft.	\$19.60	
				32 ft.	\$20.34



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

II. POLES (cont.)

			CHARGES	
			Height	Company Owned
C. Direct Bury	Round Steel		19 ft.	\$20.56
			30 ft.	\$16.05
			38 ft.	\$19.59
		Self-Support	40 ft.	\$24.13
		Stepped	25 ft.	\$55.50
			32 ft.	\$58.45
		49 ft.	\$72.55	
	Square Steel	4"	34 ft.	\$17.71
		5"	20 ft.	\$16.82
			30 ft.	\$17.54
			38 ft.	\$19.03
		8"	28 ft.	\$31.76
			32 ft.	\$33.20
	Decorative Transit	41 ft. 6 in.	\$22.85	
	Decorative Transit	47 ft.	\$28.47	
	Steel Distribution Pole (for lighting)	35 ft.	\$26.28	
D. Post Top	Decorative Transit Anchor		16 ft.	\$39.14
	Gray Steel/Fiberglass		23 ft.	\$13.58
	Black Steel		23 ft.	\$14.97
FROZEN	Wood Poles		30 ft.	\$9.99
			35 ft.	\$9.99
			40 ft.	\$14.22

- NOTES:
1. All distribution lines required to serve dusk to dawn facilities are owned by the Company.
 2. Monthly charges for all new Company owned poles include up to 100 feet of overhead secondary wire, or up to 100 feet of underground secondary line if Customer provides earthwork and conduit (excluding the overhead to underground transition). Any additional wire required (over and above the first 100 feet provided) to install fixtures is subject to the additional monthly wire charges specified in Section IV.1 below.
 3. When adding lighting fixtures to an existing Company owned pole, any and all additional distribution wire required is subject to the additional monthly wire charges specified in Section IV.1 below.
 4. Any and all distribution wire required to serve lighting facilities placed on a Customer owned pole, whether new or existing, is subject to the additional monthly wire charges specified in Section IV.1 below.



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

III. ANCHOR BASE

		Height	CHARGES Company Owned
A. Flush		4 ft.	\$11.06
		6 ft.	\$13.19
B. Pedestal		8 ft.	\$15.12
	For 32' Round Steel Pole only	4 ft. 6"	\$10.49

IV. CHARGES FOR OPTIONAL OR ADDITIONAL EQUIPMENT

	CHARGE Company Owned
1. Each 100 feet of overhead secondary wire, or each 100 feet of underground secondary wire, if Customer provides earthwork and conduit.	\$3.91
2. Additional maintenance charge for HPS lamp and luminaire that is not accessible by bucket truck.	\$3.12
3. Additional maintenance charge for MH lamp and luminaire that is not accessible by bucket truck.	\$6.75

V. DETERMINATION OF CHARGES FOR NEW EQUIPMENT

Monthly charges for new lighting fixtures, poles and other equipment not included in Sections I, II, or III above will be determined by the Company using the following method:

Step 1 Determination of monthly charges for each charge type Monthly Fixed Charge Rate

Charge Type	Monthly Charge	=	Cost Inputs	x	PV Factor	x	Monthly Fixed Charge Rate
1	Carrying cost (fixtures)	=	Equipment cost (installed)	x	NA	x	1.518%
2	Lighting O&M	=	O&M cost (lifecycle)	x	0.427	x	1.518%
3	Carrying cost (poles)	=	Equipment cost (installed)	x	NA	x	1.296%

Charge Type	Monthly Charge	=	kWh Input	x	\$/kWh
4	Generation	=	kWh per month	x	0.06760
5	T&D, RCS, system benefits	=	kWh per month	x	0.02738



Step 2 Determination of Total Monthly Charge
The total monthly charge will be the summation of the charges for each applicable charge type.

<u>Equipment</u>	<u>Charge</u> <u>Type</u>
Fixtures - company owned	1,2,4,5
Fixtures - Customer owned	2,4,5
Poles - company owned	3

TRIP CHARGE

A \$100.00 trip charge per light will be charged when a Customer requests a disconnect and/or reconnect of service in order to accommodate the maintenance activities of the Customer or its designee(s) on their dusk to dawn equipment.

ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. Direct Access Customers returning to Standard Offer service may be subject to a Returning Customer Direct Access Charge, Adjustment Schedule RCDAC-1.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.



SERVICE DETAILS

1. The 4,000 and 7,000 lumen lamps use an open glass diffuser. All units are controlled by a photoelectric switch.
2. The Customer is not authorized to make connections to the lighting circuits or to make attachments without prior notification to the Company. The Company may recalculate the rate or change the rate eligibility in such instances.
3. Should a Customer request relocation of a Dusk to Dawn lighting installation, the costs of such relocation will be paid by the Customer.
4. The Customer will be responsible for notifying the Company when the dusk to dawn facilities are not operating as intended. The Company will use reasonable efforts to complete normal maintenance (replacement of lamps, photocontrols or fixtures) within ten (10) working days from notification by Customer. If the maintenance requires cable replacement or repairs, the Company will use reasonable efforts to complete said repairs within twenty (20) working days.
5. The Customer's bill will not be reduced due to lamp, photocontrol or cable repair or replacement outages.
6. The Customer may cancel a lighting service agreement by payment of the bill including the applicable tax adjustment, multiplied by the number of remaining months of the initial agreement, or the calculated installation and removal costs for the extension, whichever is lower.
7. Lighting equipment which is not specified in this rate schedule will be billed at the rates corresponding to the most similar equipment, as determined by the Company.
8. Lighting Equipment and services with an initial Company cost exceeding \$25,000 will require a financial liability agreement between the Company and the Customer.
9. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).

NON-STANDARD FACILITIES - CUSTOMER OWNED

When the Customer requests any non-standard Dusk to Dawn lighting facilities (non-standard being defined as any equipment not listed in the Company's Transmission and Distribution Construction Standards book), the Customer will own, operate and maintain all components to the system excluding the distribution facilities installed by the Company to serve the lighting system. Monthly bills rendered for non-standard facilities will consist of the following rates, plus



**RATE SCHEDULE E-47
CLASSIFIED SERVICE
DUSK TO DAWN LIGHTING SERVICE**

any adjustments incorporated in this schedule. KWh will be determined by the Company, based on the rated wattage of the equipment and an estimated average hourly usage per month.

A.	Service Charge	\$3.74	per installed fixture per month
B.	Energy Charge	\$0.07255	per kWh per month

CONTRACT PERIOD

All Dusk to Dawn lighting installations will require a written agreement for service for a minimum of ten (10) years, or longer at Company's option.



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

AVAILABILITY

This rate schedule is applicable to those portions of cities, towns and unincorporated communities in which the Company does a general retail electric business and where the Company has installed a multiple or series street lighting system of adequate capacity for the service to be rendered.

DESCRIPTION

E-58 is a rate that is applicable for lighting public streets, alleys, thoroughfares, public parks and playgrounds from dusk to dawn by use of Company's facilities.

TIME PERIODS

- Dusk: Time between sunset and full night when photocontrol senses the lack of sufficient sunlight and turns on the lights.
- Dawn: The time between full night and sunrise when a photocontrol senses sufficient sunlight to turn off lights.

CHARGES

The monthly bill will consist of the following charges, plus adjustments.

I. FIXTURES (Includes Mounting Arm, if Applicable)

	Lumen	Watts	kWh	CHARGES	
				Investment by Company	Investment by Others
A. Acorn	3,835 LED	75	26	\$22.42	\$7.87
	4,796 LED	75	26	\$18.01	\$6.70
	5,003 LED	100	35	\$24.30	\$9.03
	5,904 LED	100	35	\$23.87	\$8.91
	6000 IND	85	29	\$19.94	\$5.33
B. Architectural	6,200 IND	85	29	\$10.50	\$4.07
	8,400 IND	100	34	\$11.08	\$4.52
	10,200 IND	120	41	\$12.18	\$5.17
	13,000 IND	150	52	\$13.45	\$6.15
	20,500 IND	200	69	\$15.32	\$7.64
	22,500 IND	265	91	\$18.27	\$9.62
	3,300 LED	43	15	\$10.61	\$3.93
	3,800 LED	32	12	\$8.01	\$3.03
	3,900 LED	32	12	\$10.32	\$3.64
	4,050 LED	63	22	\$19.31	\$6.76
	4,100 LED	45	16	\$10.72	\$4.03



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

	CHARGES				
	Lumen	Watts	kWh	Investment by Company	Investment by Others
B. Architectural (cont)	4,800 LED	41	15	\$8.57	\$3.39
	5,000 LED	41	15	\$9.96	\$3.75
	5,100 LED	60	21	\$10.55	\$4.34
	5,300 LED	67	24	\$10.85	\$4.64
	5,800 LED	94	32	\$18.46	\$5.35
	5,890 LED	89	31	\$21.31	\$7.94
	6,000 LED	62	22	\$19.31	\$6.76
	6,000 LED	67	24	\$20.61	\$7.24
	6,400 LED	89	31	\$18.54	\$5.29
	6,810 LED	101	35	\$19.58	\$7.77
	7,100 LED	62	22	\$20.42	\$7.05
	7,400 LED	127	44	\$21.16	\$6.57
	7,500 LED	73	26	\$20.81	\$7.44
	7,700 LED	86	30	\$19.08	\$7.28
	8,200 LED	88	31	\$10.83	\$5.15
	8,200 LED	95	33	\$12.30	\$5.68
	8,300 LED	72	25	\$18.58	\$6.78
	8,300 LED	106	37	\$12.90	\$6.13
	8,500 LED	88	31	\$12.12	\$5.49
	9,020 LED	139	48	\$23.78	\$9.81
	9,200 LED	139	48	\$26.53	\$7.57
	9,900 LED	130	45	\$14.32	\$7.09
	10,000 LED	93	32	\$22.21	\$8.25
	10,000 LED	113	39	\$13.74	\$6.51
	10,600 LED	126	44	\$23.38	\$9.42
	11,100 LED	108	38	\$13.22	\$6.29
	11,500 LED	108	38	\$13.64	\$6.40
	12,300 LED	203	70	\$26.41	\$9.17
	12,900 LED	119	41	\$23.12	\$9.14
	13,260 LED	202	70	\$28.10	\$12.56
	13,620 LED	202	70	\$29.53	\$9.58
	14,000 LED	171	59	\$27.02	\$11.48
	15,000 LED	136	47	\$25.84	\$10.30
15,400 LED	144	50	\$26.13	\$10.59	
18,300 LED	162	56	\$16.72	\$8.52	
19,200 LED	257	89	\$27.85	\$13.87	
20,000 LED	258	89	\$27.85	\$13.87	
20,300 LED	193	67	\$17.79	\$9.60	
21,000 LED	193	67	\$25.67	\$11.69	
C. Cobra	6,200 IND	75	26	\$10.92	\$3.91
	6,400 IND	85	29	\$9.30	\$3.92
	8,000 IND	88	30	\$10.85	\$4.19



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

				CHARGES		
				Investment by Company	Investment by Others	
		Lumen	Watts	kWh		
C. Cobra (cont)		8,400 IND	100	34	\$10.05	\$4.39
		10,200 IND	120	41	\$10.82	\$4.99
		13,000 IND	150	52	\$11.92	\$5.94
		15,250 IND	200	69	\$14.36	\$7.51
		22,500 IND	250	86	\$19.23	\$9.39
	Gray/Bronz	3,500 IND	55	19	\$10.88	\$3.39
		6,000 LED	95	33	\$17.67	\$5.32
		8,700 LED	142	49	\$19.87	\$6.77
		9,600 LED	157	54	\$21.14	\$7.30
		11,600 B-LED	181	62	\$19.72	\$7.71
	Gray/Bronz	3,300 LED	43	15	\$9.33	\$2.89
	Gray/Bronz	5,300 LED	67	23	\$10.83	\$3.67
	Gray/Bronz	8,300 LED	106	37	\$14.04	\$5.12
	Gray/Bronz	10,500 LED	130	45	\$15.63	\$5.90
	Gray/Bronz	20,000 LED	258	89	\$27.16	\$10.64
D. Decorative Transit		5,300 LED	75	26	\$29.48	\$6.34
		8,300 LED	100	34	\$31.56	\$7.22
		8,147 LED	75	26	\$37.06	\$11.77
		9,522 LED	100	35	\$37.46	\$12.53
		10,500 LED	150	52	\$33.88	\$8.83
		14,896 LED	150	52	\$41.44	\$14.81
	Double	8,147 LED	75	26	\$67.10	\$19.65
	Double	9,522 LED	100	35	\$67.02	\$20.29
	Double	14,896 LED	100	52	\$73.24	\$23.13
	Copper	6,000 IND	85	29	\$19.56	\$5.28
Gray/Black	8,000 IND	88	30	\$15.40	\$4.79	
E. Flood		14,470 LED	148	51	\$24.80	\$10.31
		16,000 LED	125	43	\$24.01	\$9.52
F. Pendant		8,678 LED	75	26	\$27.32	\$9.17
		13,964 LED	100	35	\$28.85	\$10.24
G. Post Top		4,350 LED	86	30	\$13.92	\$5.90
		6,400 LED	30	30	\$13.92	\$5.90
		6,600 LED	83	29	\$13.82	\$5.79
H. Roadway		3,300 LED	43	15	\$9.80	\$3.71
		3,800 LED	32	12	\$7.50	\$2.89
		3,900 LED	32	12	\$9.51	\$3.42
		4,100 LED	45	16	\$9.91	\$3.81
		4,800 LED	41	15	\$8.04	\$3.24
		5,000 LED	41	15	\$9.45	\$3.62
		5,100 LED	60	21	\$10.04	\$4.21
		5,300 LED	67	24	\$10.34	\$4.51
		8,200 LED	88	31	\$10.07	\$4.94



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

	CHARGES				
	Lumen	Watts	kWh	Investment by Company	Investment by Others
H. Roadway (cont)	8,200 LED	95	33	\$11.77	\$5.53
	8,300 LED	106	37	\$12.17	\$5.93
	8,500 LED	88	31	\$11.59	\$5.35
	9,900 LED	130	45	\$13.79	\$6.94
	10,000 LED	113	39	\$13.21	\$6.36
	11,100 LED	108	38	\$12.47	\$6.09
	11,500 LED	108	38	\$13.11	\$6.26
	18,300 LED	162	56	\$15.78	\$8.27
	19,200 LED	257	89	\$19.81	\$11.73
	20,000 LED	258	89	\$19.81	\$11.73
	20,300 LED	193	67	\$16.86	\$9.35
	21,000 LED	193	67	\$17.63	\$9.56
FROZEN	4,000 INC	295	103	\$10.92	\$6.10
	7,000 MV	175	73	\$14.15	\$8.12
	11,000 MV	250	96	\$17.71	\$10.81
	20,000 MV	400	150	\$27.82	\$15.76
FROZEN ACORN	9,500 HPS	100	41	\$30.20	\$10.29
	16,000 HPS	150	69	\$33.53	\$13.01
FROZEN ARCHITECTURAL	9,500 HPS	100	41	\$17.16	\$8.19
	16,000 HPS	150	69	\$20.49	\$20.04
	30,000 HPS	250	99	\$23.79	\$14.06
	50,000 HPS	400	153	\$29.35	\$20.24
	14,000 MH	175	72	\$24.01	\$13.16
	21,000 MH	250	101	\$27.27	\$16.23
	36,000 MH	400	159	\$34.09	\$22.32
	8,000 LPS	55	30	\$24.96	\$10.97
	13,500 LPS	90	50	\$29.42	\$13.22
	22,500 LPS	135	72	\$33.61	\$16.13
FROZEN COBRA ROADWAY	33,000 LPS	180	90	\$40.43	\$19.00
	5,800 HPS	70	29	\$9.74	\$5.76
	9,500 HPS	100	41	\$11.47	\$7.06
	16,000 HPS	150	69	\$14.36	\$9.85
	30,000 HPS	250	99	\$17.33	\$12.80
	50,000 HPS	400	153	\$23.52	\$18.27
	14,000 MH	175	72	\$16.71	\$11.39
	21,000 MH	250	101	\$19.53	\$14.17
	36,000 MH	400	159	\$25.71	\$19.68
FROZEN DECORATIVE TRANSIT	8,000 FL	100	38	\$19.20	\$5.63
	9,500 HPS	100	41	\$41.40	\$12.40
	16,000 HPS	150	69	\$41.17	\$13.85
	30,000 HPS	250	99	\$47.40	\$17.89



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

		CHARGES				
		Lumen	Watts	kWh	Investment by Company	Investment by Others
FROZEN FLOOD		30,000 HPS	250	99	\$23.01	\$14.29
		50,000 HPS	400	153	\$28.53	\$19.84
		21,000 MH	250	101	\$24.55	\$15.11
		36,000 MH	400	159	\$29.94	\$20.48
FROZEN POST TOP	Colonial	8,000 FL	100	38	\$20.70	\$5.85
	Colonial	9,500 HPS	100	41	\$11.84	\$7.42
	Colonial	9,500 HPS	100	41	\$13.63	\$7.68
	Decorative	9,500 HPS	100	41	\$36.24	\$11.43
	Gray/Black	4,350 LED	86	30	\$13.97	\$4.60

NOTES:

1. Investment by Company. These rates are applicable where the Company provides the initial investment to purchase and install all facilities necessary for street lighting service. The Company will own, operate, and maintain the street lighting system.
2. Investment by Others. These rates are applicable in those instances where the requesting entity or individual purchases and installs the street lighting facilities at their own expense and in accordance with Company specifications. These rates will also apply in the instance where the Customer provides a non-refundable advance to the Company to cover the Company's cost of purchasing and installing the street lighting system. The Company retains ownership of the street lighting system and provides operation and maintenance for all facilities.
3. Listed kWhs reflect the assigned monthly energy usage for each type of fixture and are used to determine any applicable transmission, system benefit, distribution, energy, and adjustment charges.
4. HPS = High Pressure Sodium
5. MH = Metal Halide
6. LPS = Low Pressure Sodium
7. FL = Fluorescent
8. INC = Incandescent. Incandescent lighting charges are applicable and available only to those Customers being served and those installations in service on November 1, 1986.
9. MV = Mercury Vapor. Mercury Vapor lighting charges are applicable and available only to those Customers being served and those installations in service on November 1, 1986 in accordance with A.R.S. §49-1104(A).
10. LED = Light Emitting Diode
11. IND = Induction



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

II. POLES

			CHARGES			
			Height	Investment by Company	Investment by Others	
A. Anchor Base Mounted (Flush)	Round Steel	1 Simplex Adapter	12 ft.	\$13.59	\$1.88	
			22 ft.	\$15.29	\$2.10	
			25 ft.	\$16.55	\$2.29	
			30 ft.	\$19.01	\$2.61	
			32 ft.	\$19.97	\$2.64	
		2 Simplex Adapters	12 ft.	\$14.49	\$2.00	
			22 ft.	\$16.64	\$2.30	
			25 ft.	\$17.36	\$2.39	
			30 ft.	\$20.18	\$2.78	
			32 ft.	\$21.53	\$2.97	
	Square Steel	5"	13 ft.	\$15.58	\$2.13	
			15 ft.	\$13.92	\$1.92	
			23 ft.	\$16.51	\$2.27	
			25 ft.	\$18.15	\$2.50	
			28 ft.	\$20.15	\$2.77	
32 ft.			\$20.03	\$2.76		
Concrete		12 ft.	\$46.42	\$6.39		
Fiberglass		12 ft.	\$39.31	\$5.41		
Decorative Transit		4"	16 ft.	\$38.33	\$5.29	
Decorative Transit		6"	30 ft.	\$73.99	\$10.19	
Hinged Poles		Square	15 ft.	\$14.73	\$1.20	
		Round	19 ft.	\$13.32	\$1.09	
B. Anchor Base Mounted (Pedestal)	Round Steel	1 Simplex Adapter	12 ft.	\$13.07	\$1.79	
			22 ft.	\$14.78	\$2.03	
			25 ft.	\$16.02	\$2.21	
			30 ft.	\$18.50	\$2.56	
			32 ft.	\$19.43	\$2.67	
		2 Simplex Adapters	12 ft.	\$13.96	\$1.92	
			22 ft.	\$15.60	\$2.13	
			25 ft.	\$16.83	\$2.31	
			30 ft.	\$19.66	\$2.69	
			32 ft.	\$21.00	\$2.89	
			3 Bolt	32 ft.	\$24.13	\$3.32
	Square Steel	5"	13 ft.	\$15.07	\$2.08	
			15 ft.	\$15.40	\$2.10	
			23 ft.	\$15.99	\$2.21	
			25 ft.	\$17.64	\$2.45	
28 ft.			\$19.60	\$2.69		
32 ft.			\$20.34	\$2.79		



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

II POLES (cont)

		CHARGES			
		Height	Investment by Company	Investment by Others	
C. Direct Bury	Round Steel	19 ft.	\$20.56	\$2.84	
		30 ft.	\$16.05	\$2.97	
		38 ft.	\$19.59	\$3.05	
		Self	40 ft.	\$24.13	\$3.82
		Stepped	25 ft.	\$55.50	\$4.53
			32 ft.	\$58.45	\$4.77
			49 ft.	\$72.55	\$10.00
	Square Steel	4"	34 ft.	\$17.71	\$3.07
			5"	20 ft.	\$16.82
		30 ft.		\$17.54	\$2.89
		38 ft.		\$19.03	\$3.31
		8"	28 ft.	\$31.76	\$2.58
			32 ft.	\$33.20	\$2.72
	Decorative Transit		41 ft 6	\$22.85	\$3.36
Decorative Transit		47 ft.	\$28.47	\$4.19	
Steel Distribution Pole (for lighting only)		35 ft.	\$26.28	\$3.46	
D. Post Top	Decorative Transit Anchor		\$39.14	\$5.38	
	Base		16 ft.		
	Gray Steel/Fiberglass		23 ft.	\$13.58	\$2.23
	Black Steel		23 ft.	\$14.97	\$2.47
E. Existing distribution pole suitable for streetlight use			\$1.65		
F. FROZEN	Wood Poles	FROZEN	30 ft.	\$9.99	\$1.73
			35 ft.	\$9.99	\$1.65

NOTE: The monthly rate for all new poles includes up to 300 feet of overhead secondary wire, or up to 300 feet of underground secondary wire if the Customer provides earthwork and conduit (excluding the underground to overhead transition).

III. ANCHOR BASE

		CHARGES		
		Height	Investment by Company	Investment by Others
A. Flush		4 ft.	\$11.06	\$1.52
		6 ft.	\$13.19	\$2.29
B. Pedestal		8 ft.	\$15.12	\$2.63
	For 32' Round Steel Pole only	4 ft. 6"	\$10.49	\$1.81



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

IV. CHARGES FOR OPTIONAL OR ADDITIONAL EQUIPMENT

	CHARGE
	Company Owned
Underground Circuit Charges:	
a. Per foot of cable, installed under paving	\$0.17619
b. Per foot of cable, not installed under paving	\$0.06218

V. DETERMINATION OF CHARGES FOR NEW EQUIPMENT

Monthly charges for new lighting fixtures, poles and other equipment not included in Sections I, II, or III above will be determined by the Company using the following method:

Step 1	Determination of Charges for each Charge Type					Monthly Fixed Charge Rate
Charge Type	Monthly Charge	=	Cost Inputs Equipment Cost	x	PV Factor	x
1	Carrying Cost (fixtures)	=	(installed)	x	NA	1.518%
			Equipment Cost			
2	Carrying Cost (poles)	=	(installed)	x	NA	1.296%
			Equipment Cost			
3	Fixture Replacement Cost	=	(installed)	x	0.257	1.518%
			Equipment Cost			
4	Pole, Anchor Replacement Cost	=	(installed)	x	0.110	1.296%
5	Lighting O&M	=	O&M Cost (lifecycle)	x	0.427	1.518%
6	Generation	=	kWh per month	x	\$0.07006	
7	T&D, RCS, SB	=	kWh per month	x	\$0.02838	

Step 2 Determination of Total Monthly Charge
The total monthly charge will be the summation of the charges for each applicable charge type

<u>Equipment</u>	<u>Charge Type</u>
Fixture - IBC	1,5,6,7
Fixture - IBO	3,5,6,7
Pole, Anchor Base - IBC	2
Pole, Anchor Base - IBO	4



TRIP CHARGE

A \$100.00 trip charge per light will be charged when a Customer requests a disconnect or reconnect of service in order to accommodate the maintenance activities of the Customer or its designee(s) on their street lighting equipment.

ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment charge, Adjustment Schedule DSMAC-1.
6. Direct Access Customers returning to Standard Offer service may be subject to Returning Customer Direct Access Charge, Adjustment Schedule RCDAC-1.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

SERVICE DETAILS

1. Street lighting facilities installed under this rate schedule are of the type currently being furnished by Company as standard at the time service is initially requested. Standard facilities are those listed in the Company's Transmission and Distribution Construction Standards book.
2. The Customer will be responsible for notifying the Company when the streetlighting facilities are not operating as intended. The Company will use reasonable efforts to complete normal maintenance (replacement of lamps, photocontrols or fixtures) within ten (10) working days from notification by Customer. If the maintenance requires cable replacement or repairs, the Company will use reasonable efforts to complete said repairs within twenty (20) working days.
3. The Customer's bill will not be reduced due to lamp, photocontrol or cable repair or replacement outages.
4. Lighting equipment which is not specified in this rate schedule will be billed at the rates corresponding to the most similar equipment, as determined by the Company.



**RATE SCHEDULE E-58
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

5. Non-standard facilities (non-standard being defined as any facility not listed in the Company's Transmission and Distribution Construction Standards book) do not qualify for this rate schedule. At the Company's discretion, such facilities may be served under another of the Company's rate schedules.

6. The Company will extend its standard street lighting system up to a distance of 300 feet for each additional lighting installation without cost at the request of the Customer. When the extension is underground the customer will provide earthwork as specified in the Company's Service Schedule 3, Conditions Governing Extensions of Electric Distribution Lines and Services; or, at the applicant's request, the Company will provide such earthwork and the applicant will be required to pay a non-refundable contribution in aid of construction equal to the cost of such earthwork. Any additional extension required (over and above the first 300 feet) will be provided by Company for a contribution in aid of construction equal to the cost of the additional extension.
 - a. Extensions to isolated areas requiring a substantial extension of the electric distribution system, as opposed to an extension of the street lighting system, will require a special study to determine the terms and conditions under which the Company will undertake such an extension.

7. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).



AVAILABILITY

This rate schedule is available for government owned outdoor lighting.

DESCRIPTION

This rate schedule is applicable for continuous lighting or dusk to dawn lighting of government owned street lighting systems.

The Customer will own, operate, and maintain the street lighting system including lamps and glass replacements but excluding distribution facilities installed by the Company to serve the lighting system.

TIME PERIOD

- Dusk: The time between sunset and full night when a photocontrol senses the lack of sufficient sunlight and turns on the lights.
- Dawn: The time between full night and sunrise when a photocontrol senses sufficient sunlight to turn off the lights.

CHARGES

The monthly bill will consist of the following charges, plus adjustments:

Basic Service Charge	\$3.11	per installed lamp
Energy Charge	\$0.06800	per kWh

TRIP CHARGE

A \$100.00 trip charge per light will be charged when a Customer requests a disconnect or reconnect of service in order to accommodate the maintenance activities of the Customer or its designee(s) on their street lighting equipment.

ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.



4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. Direct Access Customers returning to Standard Offer service may be subject to a Returning Customer Direct Access Charge, Adjustment Schedule RCDAC-1.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

SERVICE DETAILS

1. Billed energy is based upon the summation of the contracted energy rating of installed facilities specified in the street lighting contract.
2. The Customer's bill will not be reduced due to lamp, photocontrol, cable repair or cable replacement outages.
3. At the request of the Customer, Company will extend its standard street lighting system up to a distance of 300 feet for each additional lighting installation without cost. When the extension is underground the customer will provide earthwork as specified in the Company's Service Schedule 3, Conditions Governing Extensions of Electric Distribution Lines and Services; or, at the applicant's request, the Company will provide such earthwork and the applicant will be required to pay a non-refundable contribution in aid of construction equal to the cost of such earthwork. Any additional extension required (over and above the first 300 feet) will be provided by Company for a contribution in aid of construction equal to the cost of the additional extension.
 - a. Extensions to isolated areas requiring a substantial extension of the electric distribution system, as opposed to an extension of the street lighting system, will require a special study to determine the terms and conditions under which the Company will undertake such an extension.
4. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
5. In addition, service may be subject to special terms and conditions as provided for in a Customer contract or service agreement.

CONTRACT PERIOD

The contract period for service under this rate schedule will be a fixed period of not less than 1 year and not more than 20 years, as agreed to by the Customer and as specified in the street lighting contract.



AVAILABILITY

This rate schedule is available to eligible City of Phoenix service accounts.

DESCRIPTION

E-67 is a rate that is applicable for the lighting of alleys, buildings, and other public places owned or maintained by the City. Street lighting service is not eligible for this schedule. Service to traffic signals is limited to those installations being served as of January 31, 1985, under the Agreement of April 4, 1930, as modified, between Central Arizona Light and Power Company and the City of Phoenix. No new or reconnected traffic signal installations may be served after that time.

CHARGES

The monthly bill will consist of the following charges, plus adjustments:

Energy Charge	\$0.05798	per kWh
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ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. The Lost Fixed Cost Recovery Adjustment charge, Adjustment Schedule LFCR.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:



EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power

SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 ½ HP or more.
3. Electric service is supplied at a single point of delivery and measured through a single meter.
4. The Customer's bill will not be reduced due to lamp, photocontrol or cable repair or replacement outages.
5. Direct Access Customers are not eligible for this rate schedule.



**RATE SCHEDULE E-68
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

AVAILABILITY

This rate schedule is applicable to those portions of cities, towns and unincorporated communities in which the Company does a general retail electric business and where the Company has installed a multiple or series street lighting system of adequate capacity for the service to be rendered after XXX XX, 20XX.

DESCRIPTION

E-68 is a rate that is applicable for lighting public streets, alleys, thoroughfares, public parks and playgrounds from dusk to dawn by use of Company's facilities.

TIME PERIOD

Dusk:

Time between sunset and full night when photocontrol senses the lack of sufficient sunlight and turns on the lights.

Dawn:

The time between full night and sunrise when a photocontrol senses sufficient sunlight to turn off lights.

CHARGES

The monthly bill will consist of the fixture and energy charges, plus adjustments:

I. FIXTURES (Includes Mounting Arm, if applicable)

Fixture Equipment Class	Fixture Cost Range (per unit)	Investment by Company Monthly Rate	Investment by Others Monthly Rate
A	\$ 1 - \$ 430	\$5.84	\$4.18
B	\$ 431 - \$ 520	\$7.12	\$2.16
C	\$ 521 - \$ 640	\$8.53	\$2.65
D	\$ 641 - \$ 820	\$10.20	\$3.39
E	\$ 821 - \$ 910	\$12.90	\$3.76
F	\$ 911 - \$ 1,010	\$14.36	\$4.17
G	\$ 1,011 - \$ 1,110	\$15.70	\$4.58
H	\$ 1,111 - \$ 1,250	\$17.81	\$5.15
I	\$ 1,251 - \$ 1,520	\$19.81	\$6.25
J	\$ 1,521 - \$ 1,670	\$23.86	\$6.87
K	\$ 1,671 - \$ 1,850	\$27.11	\$7.61

Note: Equipment cost greater than \$1,850 shall be customer owned.



II. ENERGY (Includes Generation, T&D, RCS & SBC)

Monthly energy charges for new lighting fixtures will be determined by the Company using the following method:

$$\text{kWh} = \text{Fixture Wattage} \times 344 \text{ Usage Hours}$$

$$\text{Generation} = \text{kWh per month} \times \$0.07006$$

$$\text{T\&D, RCS, System Benefits} = \text{kWh per month} \times \$0.02838$$

NOTES:

1. Investment by Company. These rates are applicable where the Company provides the initial investment to purchase and install all facilities necessary for street lighting service. The Company will own, operate, and maintain the street lighting system.
2. Investment by Others. These rates are applicable in those instances where the requesting entity or individual purchases and installs the street lighting facilities at their own expense and in accordance with Company specifications. These rates will also apply in the instance where the Customer provides a non-refundable advance to the Company to cover the Company's cost of purchasing and installing the street lighting system. The Company retains ownership of the street lighting system and provides operation and maintenance for all facilities.
3. Listed kWh reflects the assigned monthly energy usage for each type of fixture and are used to determine any applicable transmission, system benefit, distribution, energy, and adjustment charges.
4. kWh is determined by the company based on the rated wattage of the equipment and an established average hourly usage per month.
5. The monthly rate for all new poles includes up to 300 feet of overhead secondary wire, or up to 300 feet of underground secondary wire if the Customer provides earthwork and conduit (excluding the underground to overhead transition).



**RATE SCHEDULE E-68
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

III. POLES

			CHARGES		
			Height	Investment by Company	Investment by Others
A. Anchor Base Mounted (Flush)	Round Steel	1 Simplex Adapter	12 ft.	\$13.59	\$1.88
			22 ft.	\$15.29	\$2.10
			25 ft.	\$16.55	\$2.29
			30 ft.	\$19.01	\$2.61
			32 ft.	\$19.97	\$2.64
		2 Simplex Adapters	12 ft.	\$14.49	\$2.00
			22 ft.	\$16.64	\$2.30
			25 ft.	\$17.36	\$2.39
			30 ft.	\$20.18	\$2.78
			32 ft.	\$21.53	\$2.97
	Square Steel	5"	13 ft.	\$15.58	\$2.13
			15 ft.	\$13.92	\$1.92
			23 ft.	\$16.51	\$2.27
			25 ft.	\$18.15	\$2.50
			28 ft.	\$20.15	\$2.77
			32 ft.	\$20.03	\$2.76
Concrete		12 ft.	\$46.42	\$6.39	
Fiberglass		12 ft.	\$39.31	\$5.41	
Decorative Transit		4"	16 ft.	\$38.33	\$5.29
Decorative Transit		6"	30 ft.	\$73.99	\$10.19
Hinged Poles		Square	15 ft.	\$14.73	\$1.20
		Round	19 ft.	\$13.32	\$1.09
B. Anchor Base Mounted (Pedestal)	Round Steel	1 Simplex Adapter	12 ft.	\$13.07	\$1.79
			22 ft.	\$14.78	\$2.03
			25 ft.	\$16.02	\$2.21
			30 ft.	\$18.50	\$2.56
			32 ft.	\$19.43	\$2.67
		2 Simplex Adapters	12 ft.	\$13.96	\$1.92
			22 ft.	\$15.60	\$2.13
			25 ft.	\$16.83	\$2.31
			30 ft.	\$19.66	\$2.69
			32 ft.	\$21.00	\$2.89
	3 Bolt		32 ft.	\$24.13	\$3.32
	Square Steel	5"	13 ft.	\$15.07	\$2.08
			15 ft.	\$15.40	\$2.10
			23 ft.	\$15.99	\$2.21
			25 ft.	\$17.64	\$2.45
			28 ft.	\$19.60	\$2.69
32 ft.			\$20.34	\$2.79	



**RATE SCHEDULE E-68
CLASSIFIED SERVICE
STREET LIGHTING SERVICE**

III. POLES (cont)

		CHARGES			
		Height	Investment by Company	Investment by Others	
C. Direct Bury	Round Steel	19 ft.	\$20.56	\$2.84	
		30 ft.	\$16.05	\$2.97	
		38 ft.	\$19.59	\$3.05	
		Self	40 ft.	\$24.13	\$3.82
		Stepped	25 ft.	\$55.50	\$4.53
			32 ft.	\$58.45	\$4.77
			49 ft.	\$72.55	\$10.00
	Square Steel	4"	34 ft.	\$17.71	\$3.07
			5"	20 ft.	\$16.82
		30 ft.		\$17.54	\$2.89
		38 ft.		\$19.03	\$3.31
		8"	28 ft.	\$31.76	\$2.58
			32 ft.	\$33.20	\$2.72
		Decorative Transit	41 ft 6	\$22.85	\$3.36
	Decorative Transit	47 ft.	\$28.47	\$4.19	
	Steel Distribution Pole (for lighting only)	35 ft.	\$26.28	\$3.46	
D. Post Top	Decorative Transit Anchor		\$39.14	\$5.38	
	Base	16 ft.			
	Gray Steel/Fiberglass	23 ft.	\$13.58	\$2.23	
	Black Steel	23 ft.	\$14.97	\$2.47	
E. Existing distribution pole suitable for streetlight use			\$1.65	--	

IV. ANCHOR BASE

		CHARGES		
		Height	Investment by Company	Investment by Others
A. Flush		4 ft.	\$11.06	\$1.52
		6 ft.	\$13.19	\$2.29
B. Pedestal		8 ft.	\$15.12	\$2.63
	For 32' Round Steel Pole only	4 ft. 6"	\$10.49	\$1.81

V. CHARGES FOR OPTIONAL OR ADDITIONAL COMPANY OWNED EQUIPMENT

Underground Circuit Charges	
a. Per foot of cable, installed under paving	\$0.17619
b. Per foot of cable, not installed under paving	\$0.06218



TRIP CHARGE

A \$150.00 trip charge per light will be charged when a Customer requests a disconnect or reconnect of service in order to accommodate the maintenance activities of the Customer or its designee(s) on their street lighting equipment.

ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Standard charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment charge, Adjustment Schedule DSMAC-1.
6. Direct Access Customers returning to Standard Offer service may be subject to a Returning Customer Direct Access Charge, Adjustment Schedule RCDAC-1.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

SERVICE DETAILS

1. Street lighting facilities installed under this rate schedule are of the type currently being furnished by Company as standard at the time service is initially requested. Standard facilities are those listed in the Company's Transmission and Distribution Construction Standards book.
2. The Customer's bill will not be reduced due to photocontrol or cable repair or replacement outages.
3. Non-standard facilities (non-standard being defined as any facility not listed in the Company's Transmission and Distribution Construction Standards book) do not qualify for this rate schedule. At the Company's discretion, such facilities may be served under another of the Company's rate schedules.
4. The Company will extend its standard street lighting system up to a distance of 300 feet for each additional lighting installation without cost at the request of the Customer. When the extension is underground the customer will provide earthwork as specified in



the Company's Service Schedule 3, Conditions Governing Extensions of Electric Distribution Lines and Services; or, at the applicant's request, the Company will provide such earthwork and the applicant will be required to pay a non-refundable contribution in aid of construction equal to the cost of such earthwork. Any additional extension required (over and above the first 300 feet) will be provided by Company for a contribution in aid of construction equal to the cost of the additional extension.

- a. Extensions to isolated areas requiring a substantial extension of the electric distribution system, as opposed to an extension of the street lighting system, will require a special study to determine the terms and conditions under which the Company will undertake such an extension.
5. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill. In addition, service may be subject to special terms and conditions as provided for in a Customer contract, maintenance, or service agreement.



**RATE SCHEDULE E-221
CLASSIFIED SERVICE
WATER PUMPING SERVICE**

AVAILABILITY

This rate schedule is available to Customers that pump water for agricultural irrigation or municipal water service.

DESCRIPTION

This rate has three parts: a basic service charge, a demand charge, and an energy charge. Rate Schedule E-221 is a special rate for Customers pumping irrigation water or for water utilities pumping potable water to service the citizens of a city, town, or unincorporated community.

CHARGES

The monthly bill will consist of the following charges or a minimum bill, whichever is greater, plus adjustments:

Bundled Charges

Basic Service Charge (only one applies)		
Self-Contained Meter	\$ 1.189	per day
Instrument Rated Meter	\$ 2.071	per day
Primary Meter	\$ 5.071	per day
Demand Charge	\$ 4.778	per kW
Energy Charge for the first 240 kWh	\$ 0.10821	per kWh
Energy Charge for all additional kWh	\$ 0.07475	per kWh

MINIMUM BILL

The minimum bill will not be less than \$ 2.071 per day plus \$ 4.778 per kW multiplied by the higher of:

1. The highest kW used during the 12 months ending with the current month, or
2. the minimum kW specified in the Electric Service Agreement, if applicable.

For billing purposes, the kW used in this rate schedule will be based on the average kW used during the 15-minute period of maximum use during the month.



**RATE SCHEDULE E-221
CLASSIFIED SERVICE
WATER PUMPING SERVICE**

Unbundled Components of the Bundled Charges

Bundled Charges consist of the components shown below. These are not additional charges.

Basic Service Charge Components		
Customer Accounts	\$ 0.517	per day
Billing	\$ 0.031	per day
Meter Reading	\$ 0.009	per day
Metering (only one applies)		
Self-Contained Meter	\$ 0.632	per day
Instrument Rate Meter	\$ 1.514	per day
Primary Meter	\$ 4.514	per day

Demand Charge Components		
Generation	\$ 1.008	per kW
Delivery	\$ 0.900	per kW
Transmission	\$ 2.870	per kW

Energy Charge Components		
Generation for the first 240 kWh	\$ 0.07765	per kWh
Generation for all additional kWh	\$ 0.06186	per kWh
Delivery for the first 240 kWh	\$ 0.02725	per kWh
Delivery for all additional kWh	\$ 0.00958	per kWh
System Benefits (all kWh)	\$ 0.00331	per kWh

ADJUSTMENTS

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.



5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. The Lost Fixed Cost Recovery adjustment charge, Adjustment Schedule LFCR.
7. Direct Access Customers returning to Standard Offer service may be subject to a Returning Customer Direct Access Charge, Adjustment Schedule RCDAC-1.
8. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:

CPP-GS	Critical Peak Pricing
EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power
PPR	Preference power

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.
2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.
3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.
4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load does not meet the requirements the Customer will pay the cost to install and remove the equipment.
5. If the load does not meet the power factor requirements the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.



SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 ½ HP or more.
3. Direct Access customers who purchase available electric services from a supplier other than APS may take service under this schedule. The bill for these Customers will only include the Unbundled Component charges for Customer Accounts, Delivery, System Benefits, and any applicable Adjustments. If metering and billing services are not available from another supplier, those services will be provided by APS and billed to the customer at the charges shown below.
4. Electric service is supplied at a single point of delivery and measured through a single meter. This schedule is not applicable to breakdown, standby, supplemental, residential or resale service.
5. Customers taking service under this rate schedule may be subject to an Electric Service Agreement.



**RATE SCHEDULE E-221-8T
CLASSIFIED SERVICE
WATER PUMPING SERVICE - TIME-OF-USE**

AVAILABILITY

This rate schedule is available to Customers that pump water for agricultural, irrigation, or municipal water service.

DESCRIPTION

This rate has three parts: a basic service charge, a demand charge, and an energy charge. Both the demand and energy charge vary depending on the time of day energy is used. Rate Schedule E-221-8T is a special rate for Customers pumping irrigation water or for water utilities pumping potable water to service the citizens of a city, town, or unincorporated community.

TIME PERIODS

On-Peak hours: 11:00 a.m. - 9:00 p.m. Monday through Friday
Off-Peak hours: All remaining hours

CHARGES

The monthly bill will consist of the following charges, or a minimum bill as discussed below, whichever is greater, plus adjustments:

Bundled Charges

Basic Service Charge		
Self-Contained Meter	\$ 1.189	per day
Instrument Rated Meter	\$ 2.071	per day
Primary Meter	\$ 5.071	per day
Demand Charge On-Peak	\$ 6.663	per kW
Demand Charge Off-Peak	\$ 4.464	per kW
Energy Charge On-Peak	\$ 0.09124	per kWh
Energy Charge Off-Peak	\$ 0.04916	per kWh

MINIMUM BILL

The minimum bill will not be less than \$ 2.071 per day plus \$ 6.663 per kW multiplied by the higher of:

1. The highest kW used during the 12 months ending with the current month, or



**RATE SCHEDULE E-221-8T
CLASSIFIED SERVICE
WATER PUMPING SERVICE - TIME-OF-USE**

2. the minimum kW specified in the Electric Service Agreement, if applicable.

For billing purposes, the kW used in this rate schedule will be based on the average kW used during the 15-minute period of maximum use during the month.

Unbundled Components of the Bundled Charges

Bundled Charges consist of the components shown below. These are not additional charges.

Basic Service Charge Components		
Customer Accounts	\$ 0.517	per day
Billing	\$ 0.031	per day
Meter Reading	\$ 0.009	per day
Metering (only one applies)		
Self-Contained Meter	\$ 0.632	per day
Instrument Rate Meter	\$ 1.514	per day
Primary Meter	\$ 4.514	per day

Demand Charge Components		
Generation on-peak	\$ 2.233	per kW
Generation off-peak	\$ 2.904	per kW
Delivery on-peak	\$ 1.560	per kW
Delivery off-peak	\$ 1.560	per kW
Transmission on-peak	\$ 2.870	per kW

Energy Charge Components		
Generation on-peak	\$ 0.08617	per kWh
Generation off-peak	\$ 0.04409	per kWh
Delivery (all kWh)	\$ 0.00176	per kWh
System Benefits (all kWh)	\$ 0.00331	per kWh



ADJUSTMENTS

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment charge, Adjustment Schedule DSMAC-1.
6. The Lost Fixed Cost Recovery Adjustment charge, Adjustment Schedule LFCR.
7. Direct Access Customers returning to Standard Offer service may be subject to a Returning Customer Direct Access Charge, Adjustment Schedule RCDAC-1.
8. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:

CPP-GS	Critical Peak Pricing
EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power
PPR	Preference power

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.
2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.
3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.



**RATE SCHEDULE E-221-8T
CLASSIFIED SERVICE
WATER PUMPING SERVICE - TIME-OF-USE**

4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load does not meet the requirements the Customer will pay the cost to install and remove the equipment.
5. If the load does not meet the power factor requirements the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.

SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 ½ HP or more.
3. Electric service is supplied at a single point of delivery and measured through a single meter. This schedule is not applicable to breakdown, standby, supplemental, residential or resale service.
4. Direct Access Customers who purchase available electric services from a supplier other than APS may take service under this schedule. The bill for these Customers will only include the Unbundled Component charges for Customer Accounts, Delivery, System Benefits, and any applicable Adjustments. If metering and billing services are not available from another supplier, those services will be provided by APS and billed to the Customer at the charges shown below.
5. Customers taking service under this rate schedule may be subject to an Electric Service Agreement.



**RATE SCHEDULE E-221 AG
CLASSIFIED RATE
AGRICULTURAL WATER PUMPING SERVICE**

AVAILABILITY

This rate schedule is available to Standard Offer Customer service to a water pump for the purpose of agricultural irrigation.

DESCRIPTION

Rate Schedule E-221 AG is a classified rate for a pump used to move water for agricultural irrigation. This rate has three parts: a basic service charge, a demand charge and an energy charge.

CHARGES

The monthly bill will consist of the following charges or a minimum bill, whichever is greater, plus adjustments:

Bundled Charges

Basic Service Charge (only one applies)		
Self-Contained Meter	\$ 1.189	per day
Instrument Rated Meter	\$ 2.071	per day
Primary Meter	\$ 5.071	per day
Demand Charge	\$ 4.405	per kW
Energy Charge for the first 240 kWh	\$ 0.09690	per kWh
Energy Charge for all additional kWh	\$ 0.07077	per kWh

MINIMUM BILL

The minimum bill will not be less than \$ 2.071 per day plus \$ 4.405 per kW multiplied by the higher of:

1. The highest kW used during the 12 months ending with the current month, or
2. the minimum kW specified in the Electric Service Agreement, if applicable.

For billing purposes, the kW used in this rate schedule will be based on the average kW used during the 15-minute period of maximum use during the month.



**RATE SCHEDULE E-221 AG
CLASSIFIED RATE
AGRICULTURAL WATER PUMPING SERVICE**

Unbundled Components of the Bundled Charges

Bundled Charges consist of the components shown below. These are not additional charges.

Basic Service Charge Components		
Customer Accounts	\$ 0.517	per day
Billing	\$ 0.031	per day
Meter Reading	\$ 0.009	per day
Metering (only one applies)		
Self-Contained Meter	\$ 0.632	per day
Instrument Rate Meter	\$ 1.514	per day
Primary Meter	\$ 4.514	per day

Demand Charge Components		
Generation	\$ 1.008	per kW
Delivery	\$ 0.527	per kW
Transmission	\$ 2.870	per kW

Energy Charge Components		
Generation for the first 240 kWh	\$ 0.07765	per kWh
Generation for all additional kWh	\$ 0.06186	per kWh
Delivery for the first 240 kWh	\$ 0.01594	per kWh
Delivery for all additional kWh	\$ 0.00560	per kWh
System Benefits (all kWh)	\$ 0.00331	per kWh

ADJUSTMENTS

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.



**RATE SCHEDULE E-221 AG
CLASSIFIED RATE
AGRICULTURAL WATER PUMPING SERVICE**

4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. The Lost Fixed Cost Recovery adjustment charge, Adjustment Schedule LFCR.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:

CPP-GS	Critical Peak Pricing
EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power
PPR	Preference power

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.
2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.
3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.
4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load doesn't meet the requirements, the Customer will pay the cost to install and remove the equipment.

If the load does not meet the power factor requirements, the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.



RATE SCHEDULE E-221 AG
CLASSIFIED RATE
AGRICULTURAL WATER PUMPING SERVICE

DEFINITIONS

1. Agricultural is the practice of farming, including the cultivation of soil for the production of crops.
2. Irrigation is the watering of land by artificial means to foster plant growth.
3. Pump is the mechanical device using suction or pressure to raise or move water.

SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 ½ HP or more.
3. Electric service is supplied at a single point of delivery and measured through a single meter.
4. This schedule is not applicable to breakdown, standby, supplemental, residential, or resale service.
5. Customers taking service under this rate schedule may be subject to an Electric Service Agreement.
6. The contract period for all Customers receiving service under this rate schedule will be one (1) year at the Company's option.
7. Direct Access Customers are not eligible for this rate schedule.
8. This rate schedule is not available to service for which rate schedules E-34 or E-35 is applicable.



RATE SCHEDULE E-221 AG TOU
CLASSIFIED RATE
AGRICULTURAL WATER PUMPING SERVICE

AVAILABILITY

This rate schedule is available to Standard Offer Customer service to a water pump for the purpose of agricultural irrigation.

DESCRIPTION

Rate Schedule E-221 AG TOU is a classified rate for a pump used to move water for agricultural irrigation. This rate has three parts: a basic service charge, a demand charge for the average demand (kW) supplied during the 15-minute period of maximum use during the month, and an energy charge for the total energy (kWh) used for the entire month. The energy charge will vary by both season (summer or winter) and the time of day that the energy is used (On-Peak, Off-Peak, or Super Off-peak).

TIME PERIOD

- On-Peak hours: 3:00 pm – 8:00 pm Monday through Friday
- Off-Peak hours: All remaining hours
- Super Off Peak: 10:00 am – 3:00 pm (Winter only)
- Summer months: May through October billing cycle
- Winter months: November through April billing cycle

CHARGES

The monthly bill will consist of the following charges or a minimum bill, whichever is greater, plus adjustments:

Bundled Charges

Basic Service Charge (only one applies)		
Self-Contained Meter	\$ 1.189	per day
Instrument Rated Meter	\$ 2.071	per day
Primary Meter	\$ 5.071	per day

Demand Charge - On-Peak	\$ 4.598	per kW
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	Summer	Winter	
Energy Charge On-Peak	\$ 0.10282	\$ 0.10282	per kWh
Energy Charge Off-peak	\$ 0.07100	\$ 0.07100	per kWh
Energy Charge Super Off-peak	\$ 0.03291		per kWh



RATE SCHEDULE E-221 AG TOU
 CLASSIFIED RATE
 AGRICULTURAL WATER PUMPING SERVICE

MINIMUM BILL

The minimum bill will not be less than \$ 2.071 per day plus \$ 4.598 per kW multiplied by the higher of:

1. The highest kW used during the 12 months ending with the current month, or
2. the minimum kW specified in the Electric Service Agreement, if applicable.

For billing purposes, the kW used in this rate schedule will be based on the average kW used during the 15-minute period of maximum use during the month.

Unbundled Components of the Bundled Charges

Bundled Charges consist of the components shown below. These are not additional charges.

Basic Service Charge Components		
Customer Accounts	\$ 0.517	per day
Billing	\$ 0.031	per day
Meter Reading	\$ 0.009	per day
Metering (only one applies)		
Self-Contained Meter	\$ 0.632	per day
Instrument Rate Meter	\$ 1.514	per day
Primary Meter	\$ 4.514	per day

Demand Charge Components	On-Peak	
Generation	\$ 1.027	per kW
Delivery	\$ 0.701	per kW
Transmission	\$ 2.870	per kW

Energy Charge Components	Summer	Winter	
Generation Charge On-Peak	\$ 0.08244	\$ 0.08244	per kWh
Generation Charge Off-peak	\$ 0.05062	\$ 0.05062	per kWh
Generation Charge Super Off-peak	\$ 0.01840		per kWh



RATE SCHEDULE E-221 AG TOU
CLASSIFIED RATE
AGRICULTURAL WATER PUMPING SERVICE

Delivery Charge On-Peak	\$ 0.01707	\$ 0.01707	per kWh
Delivery Charge Off-peak	\$ 0.01707	\$ 0.01707	per kWh
Delivery Charge Super Off-peak		\$ 0.01120	per kWh
System Benefits (all kWh)	\$ 0.00331	\$ 0.00331	per kWh

ADJUSTMENTS

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. The Lost Fixed Cost Recovery adjustment charge, Adjustment Schedule LFCR.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:

CPP-GS	Critical Peak Pricing
EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power
PPR	Preference power

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.
2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.



RATE SCHEDULE E-221 AG TOU
CLASSIFIED RATE
AGRICULTURAL WATER PUMPING SERVICE

3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.
4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load doesn't meet the requirements the Customer will pay the cost to install and remove the equipment.

If the load does not meet the power factor requirements the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.

DEFINITIONS

1. Agricultural is the practice of farming, including the cultivation of soil for the production of crops.
2. Irrigation is the watering of land by artificial means to foster plant growth.
3. Pump is the mechanical device using suction or pressure to raise or move water.

SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 ½ HP or more.
3. Electric service is supplied at a single point of delivery and measured through a single meter.
4. This schedule is not applicable to breakdown, standby, supplemental, residential or resale service.
5. Customers taking service under this rate schedule may be subject to an Electric Service Agreement.
6. The contract period for all Customers receiving service under this rate schedule will be one (1) year at the Company's option.
7. Direct Access Customers are not eligible for this rate schedule.
8. This rate schedule is not available to service for which rate schedules E-34 or E-35 is applicable.



**RATE SCHEDULE GS-SCHOOLS M
GENERAL SERVICE TIME-OF-USE (0 kW - 400 kW)
ELEMENTARY AND SECONDARY SCHOOLS**

AVAILABILITY

This rate schedule is available to private and public elementary and secondary schools (K-12) whose average monthly maximum demand is less than or equal to 400 kW per month.

DESCRIPTION

This rate schedule is specifically for K-12 educational facilities and is available only to the actual meter of the school that is connected to classrooms or facilities directly related to teaching. The rate does not apply to separate facilities such as administration offices, or bus depots. This rate schedule has three parts: a basic service charge; a demand charge for the average demand (kW) supplied during the 15-minute period of maximum use during the month; and an energy charge for the total energy (kWh) used for the entire month. The rate was designed to recognize the unique daily and seasonal patterns of electricity used by many schools throughout the state; therefore, the energy charge will vary both by season (Summer-Peak, Summer-Shoulder or Winter) and the time of day that the energy is used (On-Peak, Shoulder-Peak, or Off-Peak).

The Company will place the Customer on the applicable Rate Schedule GS-SCHOOLS M or GS-SCHOOLS L based on the average summer monthly maximum demand, as determined by the Company each year. This determination will be made annually.

TIME PERIODS

Summer:	June through August billing cycles
Summer Shoulder:	May, September, and October billing cycles
Winter:	November through April Billing Cycles

Summer and Summer-Shoulder Hours

On-Peak hours:	3:00 p.m. to 8:00 p.m. Monday through Friday
Shoulder-Peak hours:	11:00 a.m. to 3:00 p.m. Monday through Friday
Off-Peak hours:	All remaining hours

Winter Hours

On-Peak hours:	5:00 a.m. to 11:00 a.m. Monday through Friday
Shoulder-Peak hours:	3:00 p.m. to 8:00 p.m. Monday through Friday
Off-Peak hours:	All remaining hours

CHARGES

The monthly bill will consist of the following charges, plus adjustments:



**RATE SCHEDULE GS-SCHOOLS M
GENERAL SERVICE TIME-OF-USE (0 kW - 400 kW)
ELEMENTARY AND SECONDARY SCHOOLS**

Bundled Rates

Basic Service Charge		
For service through Self-Contained Meters	\$ 1.189	per day, or
For service through Instrument-Rated Meters	\$ 2.071	per day, or
For service at Primary Voltage	\$ 5.071	per day, or
For service at Transmission Voltage	\$ 37.420	per day

Demand Charges			
Secondary Service	First 100 kW	\$ 11.935	per kW
	All additional kW	\$ 6.854	per kW
Primary Service	First 100 kW	\$ 11.153	per kW
	All additional kW	\$ 6.070	per kW
Transmission Service	First 100 kW	\$ 8.932	per kW
	All additional kW	\$ 3.852	per kW

Energy Charges:				
	Summer Peak	Summer Shoulder	Winter	
On-Peak	\$ 0.19296	\$ 0.16655	\$ 0.12894	per kWh
Shoulder-Peak	\$ 0.14278	\$ 0.12322	\$ 0.09535	per kWh
Off-Peak	\$ 0.07179	\$ 0.06172	\$ 0.04784	per kWh

For billing purposes, including determination of monthly maximum demands, the kW used in this rate schedule shall be based on the maximum demand kW used during the 15-minute period of maximum use during the On-Peak, Shoulder-Peak and Off-Peak periods during the month.

Unbundled Components of the Bundled Charges

Bundled charges consist of the components shown below. These are not additional charges.

Basic Service Charge Components

Customer Accounts	\$ 0.517	per day
Billing	\$ 0.031	per day
Meter Reading	\$ 0.009	per day



**RATE SCHEDULE GS-SCHOOLS M
GENERAL SERVICE TIME-OF-USE (0 kW - 400 kW)
ELEMENTARY AND SECONDARY SCHOOLS**

Meter Charge (only one applies)		
Self-Contained Meter	\$ 0.632	per day
Instrument-Rated Meter	\$ 1.514	per day
Primary Voltage Meter	\$ 4.514	per day
Transmission Voltage Meter	\$ 36.863	per day

Demand Charge Components
(only one service voltage applies in addition to the Transmission and Ancillary charge)

Transmission & Ancillary	\$ 2.870	per kW
Delivery - Secondary Service	First 100 kW	\$ 9.065 per kW
	All additional kW	\$ 3.984 per kW
Delivery - Primary Service	First 100 kW	\$ 8.283 per kW
	All additional kW	\$ 3.200 per kW
Delivery - Transmission Service	First 100 kW	\$ 6.062 per kW
	All additional kW	\$ 0.982 per kW

Energy Charge Components

	Summer Peak	Summer Shoulder	Winter	
Generation On-Peak	\$ 0.16643	\$ 0.14002	\$ 0.10241	per kWh
Generation Shoulder-Peak	\$ 0.11625	\$ 0.09669	\$ 0.06882	per kWh
Generation Off-Peak	\$ 0.04526	\$ 0.03519	\$ 0.02131	per kWh

Delivery	\$ 0.02322	per kWh
System Benefits	\$ 0.00331	per kWh

ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.
3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.



**RATE SCHEDULE GS-SCHOOLS M
GENERAL SERVICE TIME-OF-USE (0 kW - 400 kW)
ELEMENTARY AND SECONDARY SCHOOLS**

4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. The Lost Fixed Cost Recovery adjustment charge, Adjustment Schedule LFCR.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:

EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power
SD-1	Schools Discount
SGSP (Frozen)	Schools and Government Solar Program

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.
2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.
3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.
4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load doesn't meet the requirements the Customer will pay the cost to install and remove the equipment.
5. If the load does not meet the power factor requirements the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.



**RATE SCHEDULE GS-SCHOOLS M
GENERAL SERVICE TIME-OF-USE (0 kW - 400 kW)
ELEMENTARY AND SECONDARY SCHOOLS**

SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 ½ HP or more.
3. Electric service is supplied at a single point of delivery and measured through a single meter.
4. Direct Access Customers are not eligible for this rate schedule.
5. The contract period for all Customers receiving service under this rate schedule will be one (1) year at the Company's option.
6. Service under this schedule is generally provided at secondary voltage; primary voltage when the Customer owns the distribution transformer(s), or transmission voltage.



**RATE SCHEDULE GS-SCHOOLS L
GENERAL SERVICE TIME OF USE (401 kW +)
ELEMENTARY AND SECONDARY SCHOOLS**

AVAILABILITY

This rate schedule is available to private and public elementary and secondary schools (K-12) whose average monthly maximum demand is greater than 400 kW and less than 3,000 kW per month.

DESCRIPTION

This rate schedule is specifically for K-12 educational facilities and is available only to the actual meter of the school that is connected to classrooms or facilities directly related to teaching. The rate does not apply to separate facilities such as administration offices, or bus depots. This rate schedule is a three-part rate: a basic service charge; a demand charge for the average demand (kW) supplied during the 15-minute period of maximum use during the month; and an energy charge for the total energy (kWh) used for the entire month. The rate was designed to recognize the unique daily and seasonal patterns of electricity use by many schools throughout the State; therefore the energy charge will vary both by season (Summer-Peak, Summer-Shoulder or Winter) and the time of day that the energy is used (On-Peak, Shoulder-Peak, or Off-Peak).

The Company will place the Customer on the applicable Rate Schedule GS-SCHOOLS M or GS-SCHOOLS L based on the average summer monthly maximum demand, as determined by the Company each year. This determination will be made annually.

TIME PERIODS

Summer: June through August billing cycles
Summer Shoulder: May, September, and October billing cycles
Winter: November through April billing cycles

Summer and Summer-Shoulder Hours

On-Peak hours: 3:00 p.m. to 8:00 p.m. Monday through Friday
Shoulder-Peak hours: 11:00 a.m. to 3:00 p.m. Monday through Friday
Off-Peak hours: All remaining hours

Winter Hours

On-Peak hours: 5:00 a.m. to 11:00 a.m. Monday through Friday
Shoulder-Peak hours: 3:00 p.m. to 8:00 p.m. Monday through Friday
Off-Peak hours: All remaining hours

CHARGES

The monthly bill will consist of the following charges, plus adjustments:



**RATE SCHEDULE GS-SCHOOLS L
GENERAL SERVICE TIME OF USE (401 kW +)
ELEMENTARY AND SECONDARY SCHOOLS**

Bundled Rates

Basic Service Charge		
For service through Self-Contained Meters	\$ 3.115	per day
For service through Instrument-Rated Meters	\$ 3.997	per day
For service at Primary Voltage	\$ 6.997	per day
For service at Transmission Voltage	\$ 39.346	per day

Demand Charges			
Secondary Service	First 100 kW	\$ 11.680	per kW
	All additional kW	\$ 6.711	per kW
Primary Service	First 100 kW	\$ 10.909	per kW
	All additional kW	\$ 5.945	per kW
Transmission Service	First 100 kW	\$ 8.743	per kW
	All additional kW	\$ 3.773	per kW

Energy Charges				
	Summer Peak	Summer Shoulder	Winter	
On-Peak	\$ 0.17302	\$ 0.14937	\$ 0.11567	per kWh
Shoulder-Peak	\$ 0.12806	\$ 0.11054	\$ 0.08559	per kWh
Off-Peak	\$ 0.07060	\$ 0.05356	\$ 0.04713	per kWh

For billing purposes, including determination of Monthly Maximum Demands, the kW used in this rate schedule will be based on the maximum demand kW used during the 15-minute period of maximum use during the On-Peak, Shoulder-Peak and Off-Peak periods during the month.

Unbundled Components of the Bundled Charges

Bundled Charges consist of the components shown below. These are not additional charges.

Basic Service Charge Components

Customer Accounts	\$ 2.443	per day
Billing	\$ 0.031	per day
Meter Reading	\$ 0.009	per day



**RATE SCHEDULE GS-SCHOOLS L
GENERAL SERVICE TIME OF USE (401 kW +)
ELEMENTARY AND SECONDARY SCHOOLS**

Meter Charge (only one applies)		
Self-Contained Meter	\$ 0.632	per day
Instrument-Rated Meter	\$ 1.514	per day
Primary Voltage Meter	\$ 4.514	per day
Transmission Voltage Meter	\$ 36.863	per day

Demand Charge Components
(only one service voltage applies in addition to the Transmission and Ancillary charge)

Transmission & Ancillary		\$ 2.870	per kW
Delivery - Secondary Service	First 100 kW	\$ 8.810	per kW
	All additional kW	\$ 3.841	per kW
Delivery - Primary Service	First 100 kW	\$ 8.039	per kW
	All additional kW	\$ 3.075	per kW
Delivery - Transmission Service	First 100 kW	\$ 5.873	per kW
	All additional kW	\$ 0.903	per kW

Energy Charge Components

	Summer Peak	Summer Shoulder	Winter	
Generation On-Peak	\$ 0.15436	\$ 0.13071	\$ 0.09701	per kWh
Generation Shoulder-Peak	\$ 0.10940	\$ 0.09188	\$ 0.06693	per kWh
Generation Off-Peak	\$ 0.05194	\$ 0.03490	\$ 0.02847	per kWh

Delivery	\$ 0.01535	per kWh
System Benefits	\$ 0.00331	per kWh

ADJUSTMENTS

The bill will include the following adjustments:

1. The Renewable Energy Adjustment Charge, Adjustment Schedule REAC-1.
2. The Power Supply Adjustment charges, Adjustment Schedule PSA-1.



**RATE SCHEDULE GS-SCHOOLS L
GENERAL SERVICE TIME OF USE (401 kW +)
ELEMENTARY AND SECONDARY SCHOOLS**

3. The Transmission Cost Adjustment charge, Adjustment Schedule TCA-1.
4. The Environmental Improvement Surcharge, Adjustment Schedule EIS.
5. The Demand Side Management Adjustment Charge, Adjustment Schedule DSMAC-1.
6. The Lost Fixed Cost Recovery Adjustment charge, Adjustment Schedule LFCR.
7. Any applicable taxes and governmental fees that are assessed on APS's revenues, prices, sales volume, or generation volume.

RATE RIDERS

Eligible rate riders for this rate schedule are:

EPR-2	Partial Requirements - Net Billing
EPR-6	Partial Requirements - Net Metering
E-56R	Partial Requirements - Renewable
GPS-1, GPS-2, GPS-3	Green Power
SD-1	Schools Discount
SGSP (Frozen)	Schools and Government Solar Program

POWER FACTOR REQUIREMENTS

1. The Customer's load must not deviate from phase balance by more than 10%.
2. Customers receiving service at voltage levels below 69 kV must maintain a power factor of 90% lagging. The power factor cannot be leading unless the Company agrees.
3. Customers receiving service at voltage levels of 69 kV or above must maintain a power factor of $\pm 95\%$.
4. The Company may install certain monitoring equipment to test the Customer's power factor. If the load doesn't meet the requirements the Customer will pay the cost to install and remove the equipment.
5. If the load does not meet the power factor requirements the Customer must resolve the issue. Otherwise, the Customer must pay for any costs incurred by the Company for investments



**RATE SCHEDULE GS-SCHOOLS L
GENERAL SERVICE TIME OF USE (401 kW +)
ELEMENTARY AND SECONDARY SCHOOLS**

on its system necessary to address the issue. Also, until the problem is remedied, the Company may compute the Customer's monthly billing demand with kVA instead of kW.

SERVICE DETAILS

1. APS provides electric service under the Company's Service Schedules. These schedules provide details about how the Company serves its Customers, and they have provisions and charges that may affect the Customer's bill (for example, service connection charges).
2. Electric service provided will be single-phase, 60 Hertz at the Company's standard voltages available at the Customer site. Three-phase service is required for motors of an individual rated capacity of 7 ½ HP or more.
3. Electric service is supplied at a single point of delivery and measured through a single meter.
4. The contract period for all Customers receiving service under this rate schedule will be one (1) year at the Company's option.
5. Direct Access Customers are not eligible for this rate schedule.
6. Service under this schedule is generally provided at secondary voltage; primary voltage when the Customer owns the distribution transformer(s), or transmission voltage.