



# **INTEGRATED RESOURCE PLAN**

## **WELLTON-MOHAWK IRRIGATION AND DRAINAGE DISTRICT OF YUMA COUNTY AND THE STATE OF ARIZONA**

December 31, 2023

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## Profile Data

Wellton-Mohawk Irrigation and Drainage District is an Arizona municipal corporation established by a resolution and order dated July 23, 1951, as adopted by the Board of Supervisors of Yuma County, Arizona in conformity with the provisions of Article 2, Chapter 75, of the Arizona Code of 1939, now codified as Arizona Revised Statutes (A.R.S.) Chapter 19, Title 48, Sections 2901-2923. The resolution and order are filed in Docket 40, Pages 513-521, records of the County Recorder, Yuma County, Arizona. At the time of its formation, the District began serving power customers of the previous Gila Valley Power District which had been providing service since 1921. WMIDD was authorized by Congress under the Gila Project Re-authorization Act adopted July 30, 1947. WMIDD obtained its original power purchase certificate No. 32C from the Arizona Power Authority on March 19, 1949.

WMIDD is governed by a nine-member Board of Directors elected from and by landowners within its service area. It is organized under a general manager with five separate departments, each headed by a sub-manager or department superintendent. There are 107 full-time employees engaged in the irrigation, drainage, and utility operations.

The boundary of the WMIDD encompasses 204 square miles, of which 62,744 acres are irrigated with water delivered from the Colorado River by an extensive network of canals and pumping plants. A detailed description of WMIDD's utility service area is provided in **Appendix A**. Water is delivered to the farms through a distribution system, consisting of 375 miles of delivery and drainage canals. These lands are classed as prime and unique agriculture because of the quality of soils and the long growing season. The utility service area consists of 756 square miles overlaying the irrigation district and extending well beyond the boundaries of the district. WMIDD owns and operates all of the irrigation, drainage, and utility facilities. Electric power is delivered over a common transmission and distribution system to provide service to retail power customers and supply the power requirements of the irrigation district. In 2023, the District served electricity to approximately 4308 customers with 44% of total energy sales going to the commercial class, 45% to residential customers, 1% to outside lighting, and 10% to agricultural customers.

The service policies and rate schedules for power provided by WMIDD to its customers are determined and set by its Board of Directors. Copies of the District's current rate schedules are attached as **Appendix B**. The District's current Board of Directors and relevant contact persons are detailed below.

- **Board of Directors**

Robert Woodhouse – President  
William Ware – Vice President  
Kent A Murdock  
Michael Blohm  
Marvin Marlatt  
Jon Nickerson  
David Sharp  
Gary Wiechens  
Bruce Williams

**Contact Persons**

Elston K. Grubaugh  
General Manager  
30570 Wellton-Mohawk Dr.  
Wellton, AZ 85356  
Ph: (928) 785-3351  
Fax: (928) 785-3389

Fernando Perez  
Power Procurement and Marketing  
30570 Wellton-Mohawk Dr.  
Wellton, AZ 85356  
Ph: (928) 785-3351  
Fax: (928) 785-3389

WMIDD purchases power from Western Area Power Administration (WAPA), and through the Aggregated Energy Services (AES) group for resale to utility customers. WMIDD is in the Western Area Lower Colorado (WALC) control area and participates in the Hoover Power Resource Exchange Program, the Integrated Resource Scheduling (IRS) agreement, and the AES contract with other utilities to aggregate, schedule, and integrate power loads and resources. The power and energy from the Arizona Power Authority, AES, and WAPA are transmitted over the Parker-Davis Project transmission system to the District's Wellton-Mohawk Ligurta, Hidden Shores, and KOFA substations. The power and energy are distributed to the customers of WMIDD over facilities owned and operated by the District.

While the local economy remains heavily dependent on the agricultural industry, energy use has shifted from agriculture to residential and government uses. Due to economic-driven changes in cropping patterns and consolidation in the produce industry, a number of large industrial agricultural related loads (cotton gins, produce coolers) are no longer located within the WMIDD service area. However, residential growth and government related loads (U.S. Border Patrol, Yuma Proving Ground, Military contractors) have increased. The Districts ten largest customers are:

- Five Rivers Cattle Feeding LLC
- US Border Patrol
- BLT Companies LLC
- Hidden Shores RV Village
- Tier Drop RV Park
- Woodspur Farms 1
- Woodspur Farms 2
- Antelope Union High School
- Pioneer RV Park
- Hidden Shores RV Village

In addition to crop prices and operating costs, the overall financial feasibility of the farming operations is significantly impacted by water costs from irrigation pumping which is supplied with WMIDD electrical power.

The resource scheduling, load monitoring, and utilization of the District's resources are managed through Aggregated Energy Services (AES) which is administered through WAPA. AES along with the other resource programs has provided the necessary flexibility for the District to integrate and re-pattern its resources monthly to meet its changing load requirements. The District will use its current entitlements of Hoover, P-DP FES and CRSP resources aggregated and integrated with AES's other power resources to meet its projected retail loads through the five-year planning period.

## District Goals and Objectives

Provide reliable electric power at lowest practicable cost, consistent with sound business principles.

### Household Income Wellton, Arizona 85356



US Census - 2022

As evidenced by the above graph, the annual income of 31% of our retail customers are below the poverty level, as established by the U.S. Department of Health and Human Services, for a family of four (\$31,200).

## Supply Side Options

- **District Contract Information**

Arizona Power Authority (Hoover Power Contract)  
Western Area Power Administration (CRSP Contract)  
Western Area Power Administration Firm Electric Service (P-DP FES Contract)  
Western Area Power Administration (AES Contract)  
Yuma County Water User Association (Siphon Drop Hydroelectric Contract)

- **Renewable Energy Activities:**

With 31% of the population within Wellton-Mohawk Irrigation and Drainage District boundary having an annual income of less than \$31,200 per year, it is difficult to add the cost of expensive renewables to our rates.

However, there are solar projects within our district with total generation capacity of 557 kW.

- **Regulations Applicable to District**

Energy Planning and Management Program

- **Regulations Applicable to District Customers**

Arizona Department of Water Resources

## Load and Resource Information

- **Five-Year Load Forecast**

Retail sales have slightly increase every 2 years, which leads us to estimate our load increasing approximately 1-2% per year for the next 5 years, due to an anticipated increase in winter residential construction. The District has adopted interconnection, transmission and service agreements to address requests for large industrial loads should the need arise

- **Load Profile Information**

For 2023, the energy sales for the District were divided among the customer classes in the following manner:

Residential—45%  
Commercial—44%  
Irrigation—10%  
Lighting—1%

- **Supply Side Resources**

The District's current federal resources under contract along with participation in AES and Siphon Drop will be used by the District to meet its monthly power and energy requirements through the short-term and long-term planning periods. Detailed below are the District's current contractual commitments:

Arizona Power Authority (Hoover)

- Hoover "A" Capacity & Energy  
2,910 kW (Maximum with Hoover Firming Capacity)  
9,356,339 kWh (Contract Entitlement)
  - Expires September 30, 2067

Salt Lake City Area Integrated Projects (CRSP)

- Summer Season: 136 kW CROD (Contract Rate Of Delivery) 245,793 kWh
- Winter Season: 417 kW CROD 763,909 kWh
  - Expires September 30, 2057

Parker-Davis Project Firm Electric Service (P-DP FES)

- Summer Season: 4079 kW CROD 14,114,067 kWh
- Winter Season: 3430 kW CROD 5,763,062 kWh
  - Expires September 30, 2028

YCWUA Siphon Drop

- 4,400 kW
- 12,000,000 kWh (Contract Entitlement)
  - Expires 2028

Aggregated Energy Services (AES)

- Aggregated Energy Services contract is a contract, with other preference customers of WAPA's Desert Southwest Region that have allocations of Federal Hydro Resources, to aggregate, schedule, and integrate power

resources which results in greater efficiencies and more economical use and dispatch of the District's power contracts. Participation in the AES group provides resources as needed to meet present power requirements beyond our long term power contracts.

- **Demand Side Resources**

The District has ongoing Demand Side Management (DSM) activities.

- Conservation information is distributed to customers.
- Customers are offered reduced price for energy efficient bulbs through the Wellton-Mohawk Co-op.
- Customers are encouraged to replace older air conditioner units and upgrade to 16 SEER or greater models. The District stocks air conditioner units which are available for resale to customers at our cost plus a minimal handling charge
- Load Management – when possible customers are encouraged to run large loads during the off peak.
- Lighting efficiency programs – new and replacement dusk to dawn light installations are Light Emitting Diode (LEDS).
- All farm lands in the District are laser leveled which minimizes pumping therefore conserving electricity as well as water.
- Every year infrared tests are performed on switch gear, corner poles, line connections, and bushings are scanned to be sure they are not loose or leaking, etc. This is part of ongoing activities to ensure power reliability and increase energy efficiency.

## **Identification and Comparison of Resource Options**

The identification of options for additional resources within this IRP is coordinated through an examination of the costs and benefits for each resource. Because the District's largest customers already implement numerous irrigation and agricultural efficiency practices in their operations, opportunities for additional energy savings through DSM are very limited. However, the District will continue to look for other opportunities for energy savings from evolving technological advances in agricultural practices.

## **Designation of Options**

If additional resources are needed, the least-cost option is identified from a cost-benefit analysis. This information is used to develop an Action Plan for the District which conforms to the regulations and guidelines of the Energy Planning and Management Program. The selection of the District's Action Plan also includes consideration for



reliability of service, economics, rate impacts and price elasticity as well as environmental effects, regulatory impacts, legal considerations and risks, competitive impacts, social acceptance, public considerations and any other factors which may be identified from time-to-time as pertinent in selecting or implementing an Action Plan.

## Action Plan

- **Resource Action Plan**

The time period covered by the District's Action Plan is the five-year period from 2018 through 2023.

The District has determined that to provide reliable electric power at the lowest practicable cost, consistent with sound business principles, the District will continue using its long-term entitlements of Hoover, CRSP, and P-DP FES power to supply the District's projected long-term power requirements. Purchases of supplemental power needed to cover additional power needs will be made through AES. The District continuously reevaluates the possible need for new resources. An example would be new large industrial accounts. The District will require new renewable power contracts to cover these loads. It plans to structure the rate for these industrial customers around the new contract purchase.

The District will monitor any adjustments to the Plan for the long-term resource needs and will annually review its electric loads and resources for any significant changes. In the event the loads of the District are projected to materially increase above those levels represented in the Load and Resource Information section of this document, other than normal deviations due to cropping changes or weather impacts, the District will review its forecast, evaluate the need for modifying its IRP, and notify WAPA accordingly. In any event, the District will evaluate its load forecast and resource information in detail every five years and refresh its IRP, in accordance with WAPA's regulations.

- **Conservation Action Plan**

While not required, the District will continue certain conservation activities to promote and maintain energy efficiency of its distribution facilities for conserving electric resources.

**Period:** Calendar Year 2018 through 2023  
**Activity:** Power Factor Improvement Program  
Public Information and Education  
Pump Efficiency Computer Program  
Area Lighting Conservation Program

- **Validation and Evaluation**

### **Power Factor Improvement Program**

For many years, WMIDD has conducted a surveillance program to monitor system power factor, and where a correction was needed, has taken steps to do so. The District has an extensive system of drainage wells powered by induction motors. Each unit is equipped with capacitor start.

The District's three pumping plants comprising fifteen units (totaling 35,000 horsepower) have been upgraded to solid-state excitation.

The District is capable of running a slightly leading power factor to provide VAR support for the Southwest Arizona Region of WAPA. This effort was financed jointly by WAPA and the District at a cost of \$2M – cost shared 25%/75% respectively.

### **Public Information and Education**

WMIDD believes its Information Dissemination Program will continue to elevate consumer awareness on the conservation of the District's power resources. The District will continue to provide updated conservation literature and "Energy Tips" to its customers.

### **Pump Efficiency Computer Program**

The District systematically conducts data acquisition on approximately 86 groundwater pumps which provides a data base for a customized computer program. The resulting report documents, on a monthly basis, the comparative statistical operational detail of each well and the changes that take place. From these reports, decisions can be made when work is necessary to improve efficiency, abandon, or re-drill marginal wells and to monitor overall drainage system operation and performance.

### **Area Lighting Conservation Program**

Most of the District owned Dusk to Dawn lights have been upgraded from high pressure sodium to LED lights. An annual savings to the District for converting 432 lights will be approximately 394,200 kWh.

## Environmental Effects

The District is required, to the extent practicable, to minimize adverse environmental effects of new resource acquisitions, and to document these efforts in the IRP. Under the District's current resource plan, the District utilizes hydro resources to meet the majority of its electric loads. To the extent the District utilizes the Arizona Power Authority's Hoover Resource Exchange Program, the Integrated Resource Scheduling procedures to exchange and better utilize the hydro resources of the District, and other similarly situated utilities, such efforts should be environmentally beneficial since such increased utilization would offset steam generation purchases.

To maximize the efficient use of the Federal hydro resources, the District's landowners have made substantial investments for on-farm improvements which have resulted in the reduction of water demand and subsequent reduction of energy use for pumping. These on-farm improvements have ongoing benefits and will be further enhanced as opportunities arise. To the extent that the District sponsors other conservation activities and informational activities with its customers, the anticipated environmental impacts will be beneficial and economically sound.

## Public Participation

Thirty days prior to the September Board of Directors meeting, the IRP draft was posted in our office and on our website. Comment instructions were included in the postings.

The final IRP was presented to the Board of Directors for approval at the September 3<sup>rd</sup>, 2024 meeting. A copy of the notice is attached as **Appendix C**.

At the meeting, the draft IRP was presented to the Board. After discussion and the opportunity for public comment, the Board authorized the preparation of a final IRP, with such revisions, as the Board deemed appropriate. There were no public comments.

September 3rd, 2024

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Elston K. Grubaugh  
General Manager, Secretary

Comments may be submitted in writing to the following address,

Wellton-Mohawk Irrigation and Drainage District  
Attention: Elston K. Grubaugh, General Manager  
30570 Wellton-Mohawk Dr.  
Wellton, AZ 85356

or, in person at the September 3<sup>rd</sup>, 2024 Board of Directors Meeting.

DESCRIPTION OF EXTERIOR BOUNDARIES OF DESIGNATED TERRITORY  
WITHIN WHICH USES THE POWER PURCHASED UNDER THE ATTACHED POWER  
PURCHASE CERTIFICATE IS AUTHORIZED:

Township 4 South

Range 22 West

That portion of Township 4 South, Range 22 West, consisting of all or portions of Sections 31, 32, 33, 34, 35 and 36 within the State of Arizona.

Township 5 South

Range 15 West

All of Sections 25, 26, 27, 28, 33, 34, 35 and 36.

Range 21 West

That portion of Township 5 South, Range 21 West, consisting of all or portions of Sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36 within the State of Arizona.

Range 22 West

That portion of Township 5 South, Range 22 West, consisting of all or portions of Sections 1, 2, 3, 11, 12, 13, 14, 23 and 24, within the State of Arizona.

Township 6 South

Range 14 West

That portion of Township 6 South, Range 14 West, consisting of all or portions of said Township within the State of Arizona.

Range 15 West

That portion of Township 6 South, Range 15 West, consisting of all or portions of said Township within the State of Arizona.

Range 16 West

That portion of Township 6 South, Range 16 West, consisting of all or portions of said Township within the State of Arizona.

Range 21 West

That portion of Township 6 South, Range 21 West, consisting of all or portions of said Township within the State of Arizona.

Range 22 West

That portion of Township 6 South, Range 22 West, consisting of all or portions of said Township within the State of Arizona.

Township 7 South

Range 14 West

That portion of Township 7 South, Range 14 West, consisting of all or portions of said Township within the State of Arizona.

Range 15 West

That portion of Township 7 South, Range 15 West, consisting of all or portions of said Township within the State of Arizona.

Range 16 West

That portion of Township 7 South, Range 16 West, consisting of all or portions of said Township within the State of Arizona.

Range 17 West

That portion of Township 7 South, Range 17 West, consisting of all or portions of said Township within the State of Arizona.

Range 20 West

That portion of Township 7 South, Range 20 West, consisting of the South one-half of Sections 29 and 30, all of Sections 31 and 32, and the West one-half of Section 33.

Range 21 West

That portion of Township 7 South, Range 21 West, consisting of Sections 1, 2, 11, 12, 13, 14, 23, 24, 25, 26, 35 and 36.

Township 8 South

Range 13 West

That portion of Township 8 South, Range 13 West, consisting of Sections 6, 7, 16, 17 and 18.

Range 14 West

That portion of Township 8 South, Range 14 West, consisting of Sections 20, 21, 22 and 23, and the North one-half of said Township.

Range 15 West

That portion of Township 8 South, Range 15 West, consisting of all or portions of said Township within the State of Arizona.

Range 16 West

That portion of Township 8 South, Range 16 West, consisting of all or portions of said Township within the State of Arizona.

Range 17 West

That portion of Township 8 South, Range 17 West, consisting of all or portions of said Township within the State of Arizona.

Range 18 West

That portion of Township 8 South, Range 18 West, consisting of all or portions of said Township within the State of Arizona.

Range 19 West

That portion of Township 8 South, Range 19 West, consisting of all or portions of said Township within the State of Arizona.

Range 20 West

That portion of Township 8 South, Range 20 West, lying North and East of the Gila Mountains.

Range 21 West

That portion of Township 8 South, Range 21 West, consisting of Sections 1, 2, 3, 4, 5, 8, 9, 10, 11 and 12.

Township 9 South

Range 16 West

That portion of Township 9 South, Range 16 West, consisting of all or portions of said Township within the State of Arizona.

Range 17 West

That portion of Township 9 South, Range 17 West, consisting of all or portions of said Township within the State of Arizona.

Range 18 West

That portion of Township 9 South, Range 18 West, consisting of all or portions of said Township within the State of Arizona.

Range 19 West

That portion of Township 9 South, Range 19 West, consisting of all or portions of said Township within the State of Arizona.

Range 20 West

That portion of Township 9 South, Range 20 West, lying North and East of the Gila Mountains.

Township 10 South

Range 18 West

That portion of Township 10 South, Range 18 West, consisting of Sections 6, 7, 18, 19, 30, 31 and a parcel of unsurveyed land described as follows:

Beginning at the Northwest corner of Township 10 South, Range 18 West, said point being the point of true beginning; thence southerly along the west line of Township 10 South, Range 18 West to the Southwest corner of said Township 10 South, Range 18 West; then easterly along the south line of Section 31, Township 10 South, Range 18 West to the Southeast corner thereof; thence southerly along a line which is an extension of the east line of said Section 31, a distance of two miles to a point; thence westerly along a line parallel to the south line of said Section 31, a distance of two miles to a point; thence northerly along a line parallel to the west line of Township South, Range 18 West to a point on the south line of Township 9 South, Range 19 West; thence easterly along south line of Township 9 South, Range 19 West, a distance of approximately one mile to the Northwest corner of Township 10 South, Range 18 West, being the point of true beginning; Gila and Salt River Base and Meridian, Yuma County, Arizona.

**EXCEPTIONS, EXCLUSIONS AND CONDITIONS RESPECTING DESIGNATED TERRITORY:**

(a) This Power Purchase Certificate shall become effective upon the execution and delivery of a Power Sales Contract by the above-named entity for purchase of electric power from the Arizona Power Authority.

## Rate Schedules



ELECTRIC RATE

SCHEDULE A

RESIDENTIAL SERVICE

APPLICABILITY

Applicable to domestic service including lighting, heating, cooking, and power or combinations thereof in a single family accommodation; also to domestic farm service when supplied for the farm operator's domestic water system. Limited to one premise through one point of delivery and measured through one meter.

TERRITORY

Within the District power service area.

TYPE OF SERVICE

Single phase, 60 Hertz, at one standard voltage. Maximum size single phase motor limited to 5 hp. Three phase available under special conditions.

MONTHLY BILL

RATE

\$24.00 Basic Service Charge, plus tax

|         |                              |          |
|---------|------------------------------|----------|
| 9.0476  | cents per kWh for the first  | 60 kWh   |
| 15.3929 | cents per kWh for the next   | 140 kWh  |
| 14.0613 | cents per kWh for the next   | 300 kWh  |
| 12.6041 | cents per kWh for the next   | 1000 kWh |
| 12.3865 | cents for all additional kWh |          |

MINIMUM

\$24.00 per month if no energy used.

ADJUSTMENTS

Electric bills will be subject to adjustment based on the District's cost of energy supply.

TERMS OF PAYMENT

All bills are due when rendered, and are delinquent 15 days after the billing date.

ELECTRIC RATE

SCHEDULE B

GENERAL SERVICE

APPLICABILITY

Applicable to commercial and industrial service including lighting, power and combinations thereof. Service will be supplied at one point of delivery and measured through one meter, for commercial and industrial accounts.

TERRITORY

Within the District power service area.

TYPE OF SERVICE

Single or three phase, 60 Hertz, at one standard voltage. Three phase is not supplied to motors rated at less than 7-1/2 hp and is required for motors of this size and larger.

MONTHLY BILL

ENERGY CHARGE

RATE A

|  |          |
|--|----------|
| 38.2072 cents per kWh for the first          | 25 kWh   |
| 21.0671 cents per kWh for the first          | 375 kWh  |
| 15.9669 cents per kWh for the next           | 600 kWh  |
| 15.4346 cents per kWh for the next           | 1000 kWh |
| 12.6557 cents per kWh for the next           | 1000 kWh |
| 14.0070 cents per kWh for all additional kWh |          |

RATE B

|  |                       |
|--|-----------------------|
| Over 10 kW demand                            |                       |
| First 3000 kWh at Rate A                     |                       |
| 14.1643 cents per kWh for the next           | 147 kWh per kW demand |
| 13.5493 cents per kWh for the next           | 150 kWh per kW demand |
| 12.3866 cents per kWh for all additional kWh |                       |

DEMAND CHARGE

\$6.19 per kW

**The billing demand or the energy charge whichever is greater will be charged.**

MINIMUM

The billing demand or the energy charge whichever is greater but in no event less than \$24.00 per month.

BOARD APPROVED: July 25, 2023

EFFECTIVE: January 1, 2024

ELECTRIC RATE

SCHEDULE B

GENERAL SERVICE

ADJUSTMENTS

Electric bills will be subject to adjustment based on the District's cost of energy supply.

DETERMINATION OF KW

The average kW supplied during the 15 minute period of maximum use in the month as determined from readings from the District's meter.

BILLING DEMAND

The billing demand shall be the maximum kW demand occurring during the month as determined by the readings from the District's meter under DETERMINATION OF KW, but not less than 50% of the maximum kW demand established in the preceding eleven (11) months.

POWER FACTOR

The consumer will be required to maintain a power factor of 85% or greater.

TERMS OF PAYMENT

All bills are due when rendered, and are delinquent 15 days after the billing date.

CONTRACT PERIOD AND CONDITIONS

Subject to terms and conditions established at initiation of service.

ELECTRIC RATE

SCHEDULE LB

LARGE GENERAL SERVICE

APPLICABILITY

Applicable to commercial and industrial service where the monthly minimum demand is 500 kW or greater. Customer's operation must be on a continuous month to month operation. Not applicable to temporary service. Service will be supplied at one point of delivery and measured through one meter.

TERRITORY

Within the District power service area.

TYPE OF SERVICE

Three phase, 60 Hertz, at one standard voltage.

MONTHLY BILL

ENERGY CHARGE

RATE A

|                                     |          |
|-------------------------------------|----------|
| 38.2072 cents per kWh for the first | 25 kWh   |
| 21.0671 cents per kWh for the first | 375 kWh  |
| 15.9669 cents per kWh for the next  | 600 kWh  |
| 15.4346 cents per kWh for the next  | 1000 kWh |
| 14.7151 cents per kWh for the next  | 1000 kWh |

RATE B

|  |                       |
|--|-----------------------|
| First 3000 kWh at Rate A                     |                       |
| 13.5991 cents per kWh for the next           | 147 kWh per kW demand |
| 11.8258 cents per kWh for the next           | 150 kWh per kW demand |
| 11.6335 cents per kWh for all additional kWh |                       |

DEMAND CHARGE

\$6.19 per kW

**The billing demand or the energy charge whichever is greater will be charged.**

MINIMUM

The billing demand or the energy charge whichever is greater, but in no event less than 500 kW minimum billing demand.

BOARD APPROVED: July 25, 2023  
EFFECTIVE: January 1, 2024

SCHEDULE LB  
LARGE GENERAL SERVICE

ADJUSTMENTS

Electric bills will be subject to adjustment based on the District's cost of energy supply.

DETERMINATION OF KW

The average kW supplied during the 15-minute period of maximum use in the month as determined from readings from the District's meter.

BILLING DEMAND

The billing demand shall be the maximum kW demand occurring during the month as determined by the readings from the District's meter under DETERMINATION OF KW, but not less than 50% of the maximum kW demand established in the preceding eleven (11) months. The minimum billing demand is 500 kW under this rate schedule.

POWER FACTOR

The consumer will be required to maintain a power factor of 85% or greater.

TERMS OF PAYMENT

All bills are due when rendered, and are delinquent 15 days after the billing date.

CONTRACT PERIOD AND CONDITIONS

Subject to terms and conditions established at initiation of service.

BOARD APPROVED: July 25, 2023  
EFFECTIVE: January 1, 2024

ELECTRIC RATE

SCHEDULE D

AGRICULTURAL PUMPING SERVICE

APPLICABILITY

Applicable to the electric service required for irrigation pumping when such service is supplied at one point of delivery and measured through one meter.

TERRITORY

Within the District power service area.

TYPE OF SERVICE

Single or three phase, 60 Hertz, at one standard voltage as selected by the consumer subject to availability at the premises. Three phase is not supplied to motors rated at less than 7-1/2 hp and is required for motors of this size and larger.

MONTHLY BILL

ENERGY CHARGE

13.4515 cents per kWh for the first 255 hours of kW demand  
11.9756 cents per kWh for all additional kWh

DEMAND CHARGE

\$6.19 per kW

**The billing demand or the energy charge whichever is greater will be charged.**

MINIMUM

The billing demand or the energy charge whichever is greater, but in no event less than \$34.82 per month.

ADJUSTMENTS

Electric bills will be subject to adjustment based on the District's cost of energy supply.

DETERMINATION OF KW

The average kW supplied during the 15 minute period of maximum use in the month as determined from readings from the District's meter.

ELECTRIC RATE

SCHEDULE D

AGRICULTURAL PUMPING SERVICE

BILLING DEMAND

The billing demand shall be the maximum kW demand occurring during the month as determined by the readings from the District's meter under DETERMINATION OF KW, but not less than 50% of the maximum kW demand established in the preceding eleven (11) months.

POWER FACTOR

The consumer will be required to maintain a power factor of 85% or greater.

TERMS OF PAYMENT

All bills are due when rendered, and are delinquent 15 days after the billing date.

CONTRACT PERIOD AND CONDITIONS

Subject to terms and conditions established at initiation of service.

BOARD APPROVED: July 25, 2023

EFFECTIVE: January 1, 2024

ELECTRIC RATE

SCHEDULE LS-1

LIGHTING – STREET AND HIGHWAY  
CUSTOMER – OWNED INSTALLATION  
FLAT RATE

APPLICABILITY

Applicable to service for the lighting of streets, highways, other public thoroughfares, and publicly-owned and publicly-operated automobile parking lots which are open to the general public, where the Customer owns the lighting equipment.

TERRITORY

Within the District power service area.

RATES

Per Month

For each kW of lamp load, all night service, per kW \$32.6054

Base Charge: For each point of delivery, the  
 Monthly base charge shall be \$12.00

Lamp Load: The lamp load in watts for lumen rated lamps shall be as follows:

| High Pressure Sodium Lamps |        |                    |        |
|----------------------------|--------|--------------------|--------|
| Lamp<br>Watts              | Lumens | Connected<br>Watts | kWh/mo |
| 70                         | 5,800  | 83                 | 29     |
| 100                        | 9,500  | 117                | 41     |
| 150                        | 16,000 | 197                | 69     |
| 250                        | 30,000 | 284                | 99     |
| 400                        | 50,000 | 438                | 153    |

The lamp load shall be determined to the nearest 1/1000 kilowatt.



ELECTRIC RATE

SCHEDULE LS-1

LIGHTING - STREET AND HIGHWAY  
CUSTOMER - OWNED INSTALLATIONS  
FLAT RATE

SPECIAL CONDITIONS

1. District Equipment: The District shall furnish, install, own and maintain all equipment necessary to provide the customer's lighting system requirements.
  - a. The point of delivery shall be agreed upon by the customer and the District. Delivery shall be at the standard lighting voltage, or, at the option of the District, 480 volts.
2. Hours of Service: All night service will normally be from dusk to daylight, which, in accordance with the District's operating schedule, results in approximately 350 hours of service per month.
3. A contract for a period of not less than two years may be required for service under this schedule and will remain in effect from year to year thereafter until terminated.

ADJUSTMENTS

Charges for lighting service will be subject to adjustment based on the District's cost of energy supply. The current energy cost base will be established as October 1, 1998. Each bill will be adjusted, either upward or downward, as costs of energy supply vary from the base of 2.8000 cents per kWh.

RESTRICTIONS

Title 49, Chapter 7, Arizona Revised Statutes (ARS), Article 1, places limits on outdoor lighting fixtures as follows:

After January 1, 2011, MV fixtures are prohibited.

TERMS OF PAYMENT

All bills are due when rendered and are delinquent 15 days after the billing date.

ELECTRIC RATE

SCHEDULE LS-2

LIGHTING - STREET AND HIGHWAY  
CUSTOMER - OWNED INSTALLATIONS  
METERED RATE

APPLICABILITY

Applicable to service for the lighting of streets, highways, other public thoroughfares, and publicly-owned and publicly-operated automobile parking lots which are open to the general public, where the customer owns the lighting equipment.

TERRITORY

Within the District power service area.

RATE

\$12.00 Basic Service Charge, plus

11.6157 cents per kWh

MINIMUM

\$10.00 per month for each point of delivery if no energy used.

SPECIAL CONDITIONS

1. District Equipment: The District will furnish, install, own and maintain all transformers and line extensions necessary to deliver service under the District's standard line extension policy.
  - a. The point of delivery shall be agreed upon by the customer and the District. Delivery will be at the standard lighting voltage, or, at the option of the District, 480 volts.
2. Customer Equipment: The customer shall furnish, install, own and maintain, all control and all utilization equipment beyond the point of delivery.
3. Hours of Service: All night service will normally be from dusk to daylight, which, in accordance with the District's operating schedule, results in approximately 350 hours of service per month.

The District reserves the right, to require a time switch controlled by a photo-electric cell, which will result in approximately 350 hours of service per month during the hours of darkness.
4. A contract for a period of not less than two years may be required for service under this schedule and will remain in effect from year to year thereafter until terminated.

BOARD APPROVED: July 25, 2023  
EFFECTIVE: January 1, 2024

ELECTRIC RATE

SCHEDULE LS-2

LIGHTING - STREET AND HIGHWAY  
CUSTOMER - OWNED INSTALLATIONS  
METERED RATE

ADJUSTMENTS

Charges for lighting service will be subject to adjustment based on the District's cost of energy supply. The current energy cost base will be established as January 1, 2005. Each bill will be adjusted either upward or downward, as costs of energy supply vary from the base of 2.8000 cents per kWh.

RESTRICTIONS

Title 49, Chapter 7, Arizona Revised Statutes (ARS), Article 1, places limits on outdoor lighting fixtures as follows:

After January 1, 2011, MV fixtures are prohibited.

TERMS OF PAYMENT

All bills are due when rendered and are delinquent 15 days after billing date.

BOARD APPROVED: July 25, 2023  
EFFECTIVE: January 1, 2024

ELECTRIC RATE

SCHEDULE OL-1

OUTDOOR AREA LIGHTING SERVICE

APPLICABILITY

Applicable to outdoor area lighting, other than street or highway lighting, supplied from overhead lines, where the District owns and maintains the lighting equipment.

TERRITORY

Within the District power service area.

RATE

A. Charge for each kW lamp load (all night service) Per Month

High Pressure Sodium Lamps

| <u>Lamp<br/>Watts</u>                   | <u>Connected<br/>Watts</u> | <u>kWh/mo.</u> |         |
|---|----------------------------|----------------|---------|
| 250                                     | 284                        | 99             |         |
| High Pressure Sodium Lamps, per kW      |                            |                | \$27.50 |
| Fixed charge for each lamp installation |                            |                | \$8.00  |

The lamp load shall be determined to the nearest 1/1000 kilowatt.

B. Pole charge (District owned and installed).

|                         |        |
|-------------------------|--------|
| 30/35 Ft. Class 5, Wood | \$4.00 |
| 35/40 Ft. Metal Pole    | \$6.00 |

ELECTRIC RATE

SCHEDULE OL-1

OUTDOOR AREA LIGHTING SERVICE

SPECIAL CONDITIONS

1. The District shall furnish, install, own and maintain all equipment necessary to provide the customer's outdoor lighting requirements.
2. Lamp fixtures will be mounted on existing District owned poles acceptable to the District.
3. Where separate poles are required to satisfy customer requirements, a separate pole charge shall be added to the lamp charge.
4. Lamp maintenance will be done during regular working hours as soon as reasonably possible after customer has notified District of service failure. Monthly bills will not be adjusted because of lamp outages.
5. Relocation of an outdoor lighting installation at customer's request will be made providing customer pays entire cost of such relocation.
6. Billing for an installation will be to only one account. Prorated billings to more than one account for a unit or combination of units will not be made.
7. All night service will normally be from dusk to daylight, which, in accordance with the District's operating schedule, results in approximately 350 hours of service per month.
8. A contract for a period of not less than two years shall be required for service under this schedule and will remain in effect from year to year thereafter until terminated.

ADJUSTMENTS

Charges for lighting service will be subject to adjustment based on the District's cost of energy supply. The current energy cost base will be established as October 1, 1998. Each bill will be adjusted, either upward or downward, as costs of energy supply vary from the base of 2.8000 cents per kWh.

RESTRICTIONS

Title 49, Chapter 7, Arizona Revised Statutes (ARS), Article 1, places limits on outdoor lighting fixtures as follows:

After January 1, 2011, Mercury Vapor (MV) fixtures are prohibited.

TERMS OF PAYMENT

All bills are due when rendered and are delinquent 15 days after the billing date.

ELECTRIC RATE

SCHEDULE SB

SEASONAL GENERAL SERVICE

APPLICABILITY

Applicable to commercial and industrial service including lighting, power and combinations thereof including commercial farm applications. Service will be supplied at one point of delivery and measured through one meter. This schedule specifically applies to all operations, which are of a repetitive seasonal characteristic where service is required six (6) months or less per annum.

TERRITORY

Within the District power service area.

TYPE OF SERVICE

Single or three phase, 60 Hertz, at one standard voltage. Three phase is not supplied to motors rated at less than 7-1/2 hp and is required for motors of this size and larger.

MONTHLY BILL

ENERGY CHARGE

RATE A

|  |          |
|--|----------|
| 38.2072 cents per kWh for the first          | 25 kWh   |
| 21.0671 cents per kWh for the first          | 375 kWh  |
| 15.9669 cents per kWh for the next           | 600 kWh  |
| 15.4346 cents per kWh for the next           | 1000 kWh |
| 12.6557 cents per kWh for the next           | 1000 kWh |
| 14.0070 cents per kWh for all additional kWh |          |

RATE B

|  |                       |
|--|-----------------------|
| Over 10 kW demand                            |                       |
| First 3000 kWh at Rate A                     |                       |
| 14.1643 cents per kWh for the next           | 147 kWh per kW demand |
| 13.5493 cents per kWh for the next           | 150 kWh per kW demand |
| 12.3866 cents per kWh for all additional kWh |                       |

DEMAND CHARGE

\$6.19 per kW

SURCHARGE

A surcharge in the form of a 1.20 multiplier will be applied to the resultant computation.

MINIMUM

The billing demand or the energy charge whichever is greater but, in no event less than \$24.00 plus surcharge.

ELECTRIC RATE

SCHEDULE SB

GENERAL SERVICE

BILLING DEMAND

The billing demand shall be the average kW demand supplied during the 15 minute period of maximum use in the billing month as determined from readings from the District's meter.

The historical 50% of the past eleven month maximum kW demand, as specified on the B General Service Schedule, will NOT be used with the Seasonal General Service Schedule.

ADJUSTMENTS

Electric bills will be subject to adjustment based on the District's cost of energy supply.

DETERMINATION OF KW

The average kW supplied during the 15 minute period of maximum use in the month as determined from readings from the District's meter.

POWER FACTOR

The consumer will be required to maintain a power factor of 85% or greater.

TERMS OF PAYMENT

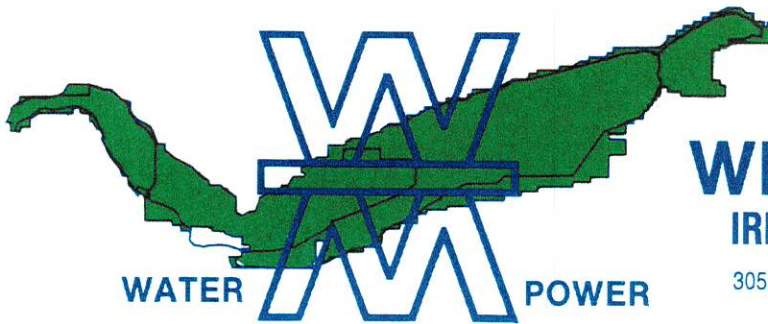
All bills are due when rendered, and are delinquent 15 days after the billing date.

CONTRACT PERIOD AND CONDITIONS

Subject to terms and conditions established at initiation of service.

SPECIAL CONDITIONS

Subject to terms and conditions established at initiation of service.



# WELLTON-MOHAWK IRRIGATION AND DRAINAGE DISTRICT

30570 WELLTON-MOHAWK DRIVE, WELLTON, ARIZONA 85356

TEL: (928) 785-3351

FAX: (928) 785-3389

August 1<sup>st</sup>, 2024

## NOTICE OF PUBLIC REVIEW INTEGRATED RESOURCE PLAN

The Western Area power Administration requires the District to prepare and submit a five (5) year power resource plan.

The District will hold a regular board meeting on September 3<sup>rd</sup>, 2024 at 1:30 p.m. in the District Board Room. The Board of Directors will consider and approve its Integrated Resource Plan at that time.

The final Integrated Resource Plan will be available to the public thirty (30) days prior to the meeting. Written comments regarding the Integrated Resource Plan will be accepted anytime prior to or at the meeting. Public comments will be accepted at that time.

For further information, or to obtain a copy of the Integrated Resource Plan, please contact Elston K. Grubaugh, General Manager 928-785-3351.