MESA CITY COUNCIL

ELECTRIC & GAS UTILITY RATES ENERGY RESOURCES DEPARTMENT

10.31.19

RATE ADJUSTMENT PRINCIPLES

- Recover costs incurred to provide service
 - Infrastructure investments to enhance safety, reliability & efficiency
- Promote energy efficiency & conservation
- Minimize rate/bill spikes
 - Long-term rate stability
 - Minimize bill impacts of extreme weather
- Benchmark with neighboring utilities (SRP & SWG)
- Proposed rate increases offset by reductions in energy supply costs

CUSTOMER SUPPORT PROGRAMS

Small Business Attraction (E3.6D)

- Attract new business customers to Central Business District and Town Center Redevelopment Area (CBD/TRA)
- Minimum & maximum consumption levels
- 3-year term & customer obligations including minimum number of employees
- 25% bill discount

CUSTOMER SUPPORT PROGRAMS cont.

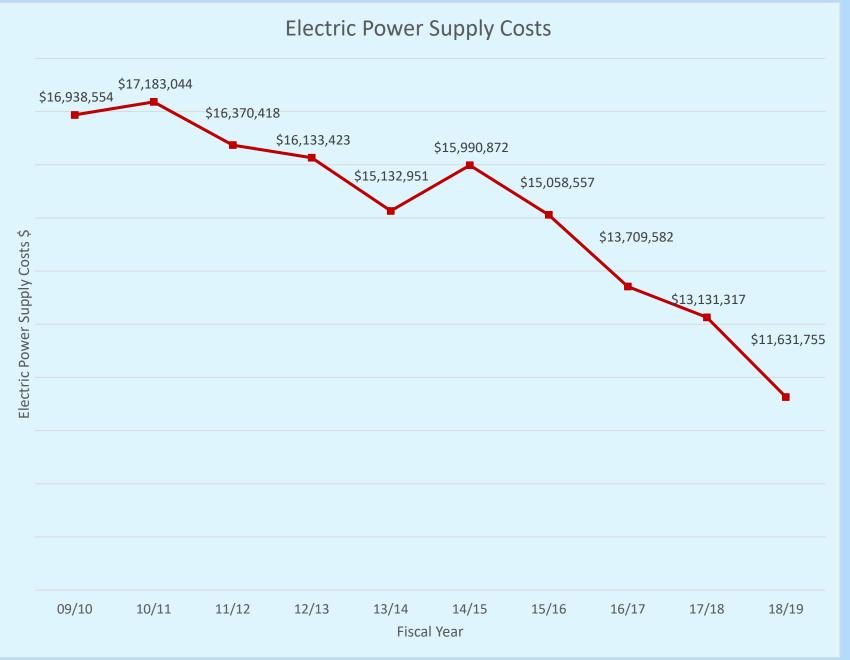
Customer Retention / Economic Development (E3.6)

- New, Expansion and Retention of existing Customers
- Larger commercial customers, minimum annual consumption required
- Discounted rates for up to 5 years
- Full-time employees or capital investment minimums required
- Financial mechanism ensures customer does not leave prematurely after receiving discounts

ELECTRIC RATE STRUCTURE

There are three components

- System Service Charge (fixed \$ per month per account)
- Usage (Consumption)
- Electric Energy Cost Adjustment Factor (EECAF)
 - Consumption
 - Pass-through of cost of commodity



The benefits of competitive wholesale energy markets have been aggressively pursued, effectively captured and our customers have benefitted directly.

PROPOSED ELECTRIC RATE ADJUSTMENTS

- Proposed rate increases offset by reductions in energy supply costs
- Minimal Rate & Bill Adjustments
 - Residential: System Service Charge rate adjustment (no change in Usage rate)
 - Non-Residential: System Service Charge rate adjustment (no change in Usage rate)
- New Electric Services & Rates
 - "Green" Tariff

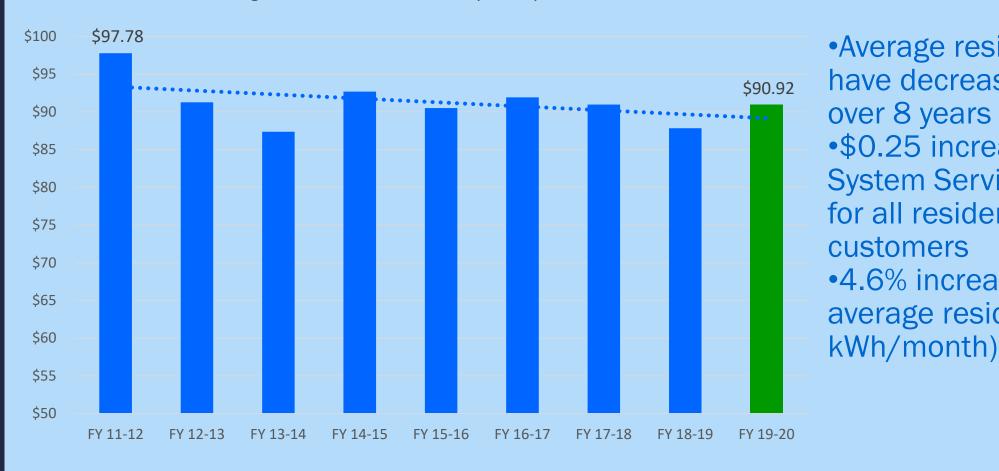
PROPOSED RESIDENTIAL ELECTRIC RATES

COMPONENT	CURRENT	PROPOSED
SYSTEM SERVICE CHARGE	\$ 11.75/MON	\$ 12.00/MON
USAGE CHARGE	\$ 0.05128/kWh	No Change
ELECTRIC ENERGY SUPPLY COST	\$ 0.04407/kWh	\$ 0.04844/kWh

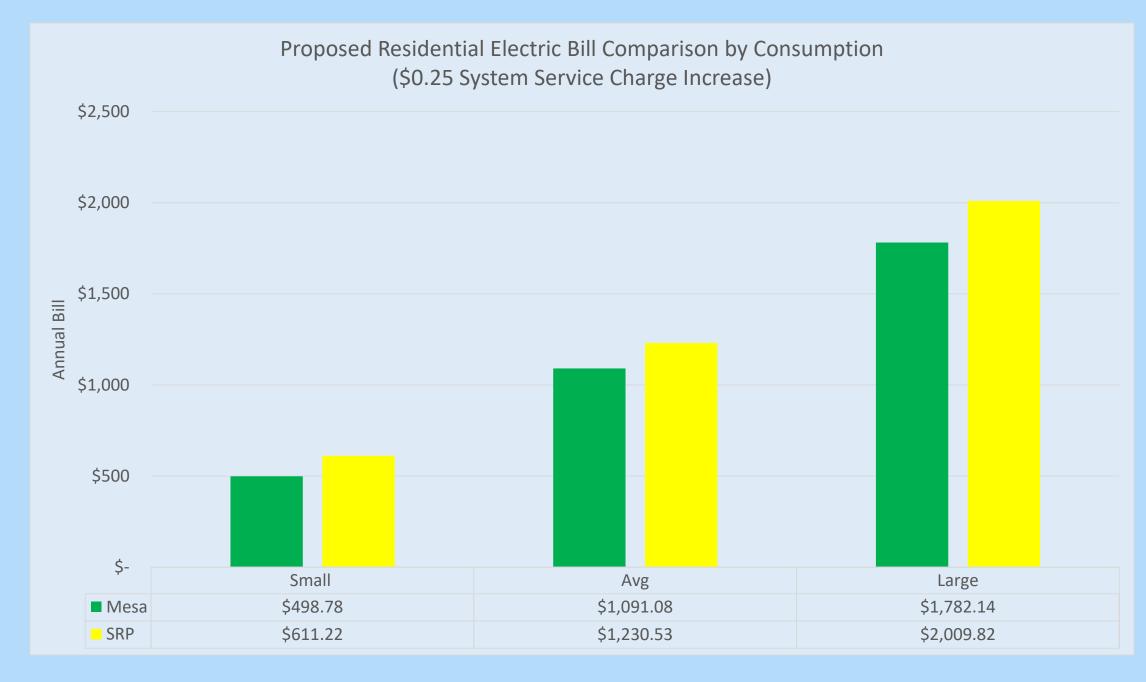
- EECAF in PROPOSED column is average of EECAF forecast for FY 19/20
 - Forecast range of \$ 0.04590 to \$ 0.05533
- 4.6 % cumulative increase for average residential customer (829 kWh/month)
 - 4.3% due to forecasted monthly EECAF rate adjustments
 - 0.3% due to increase in System Service Charge

PROPOSED RESIDENTIAL ELECTRIC RATES

Average Residential Electric Monthly Bills by Fiscal Year

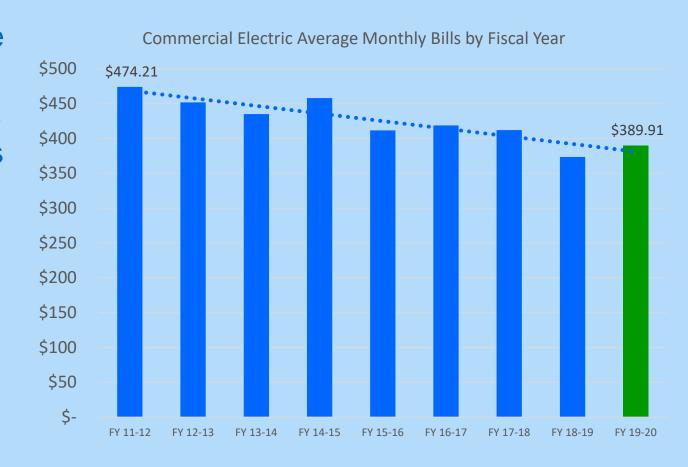


 Average residential bills have decreased 10.2% over 8 years •\$0.25 increase to System Service Charge for all residential customers •4.6% increase for average residential (829



PROPOSED COMMERCIAL ELECTRIC RATES

- Only EECAF adjustments since 2004
- Average commercial bills have decreased 21.2% over 8 years
- \$1.00 increase to System Service Charge for all commercial customers
- 5.3% increase for average commercial customer (3,919 kWh/month)





VOLUNTARY GREEN TARIFF

- Customers able to meet some or all their electric energy needs with renewable resources
 - Mesa ERD acquires renewable energy supplies on customers' behalf
- Additional \$0.01/kWh in EECAF rate component
 - Options for customer to elect 25%, 50%, 75%, 100% of needs with renewable energy

BENEFITS OF GREEN TARIFF PARTICIPATION

- ERD's renewable supplies competitively sourced
- Non-owner-occupied customers can meet energy needs with renewables
- Advantages relative to customer installations
 - Economies of scale relative to roof top Solar
 - Avoid initial investment & ongoing maintenance and repair costs
 - Eliminates risks of overestimated benefits & longer payback periods than what vendor presented
 - Can supplement customer owned to meet still more of their needs w renewables

NATURAL GAS RATE STRUCTURE

There are three components

- System Service Charge (fixed \$ per month per account)
- Usage (Consumption)
- Purchased Natural Gas Cost Adjustment Factor (PNGCAF)
 - Consumption
 - Pass-through of cost of commodity



The benefits of competitive wholesale energy markets have been aggressively pursued, effectively captured and our customers have benefitted directly.

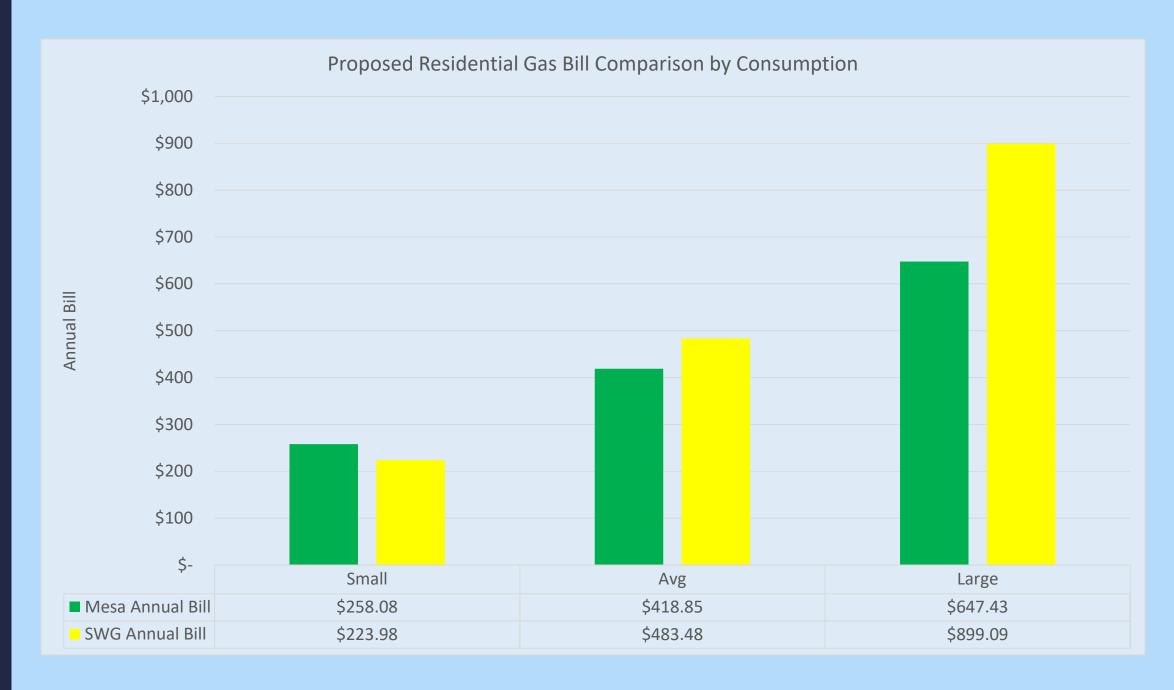
PROPOSED GAS RATE ADJUSTMENTS

- Proposed rate increases offset by reductions in energy supply costs
- Minimal Rate & Bill Adjustments for natural gas
 - Residential: System Service Charge rate adjustment (no change in usage rate)
 - Non-Residential: System Service Charge rate adjustment (no change in usage rate)
- Compressed Natural Gas (CNG) service charge and consumption rate adjustments

PROPOSED RESIDENTIAL GAS RATES

COMPONENT	CURRENT	PROPOSED
SYSTEM SERVICE CHARGE (Avg.)	\$ 15.78/MON	\$ 16.53/MON
USAGE CHARGE	\$ 0.6685/therm	No Change
NATURAL GAS SUPPLY COST	\$ 0.24731/therm	\$ 0.19138/therm

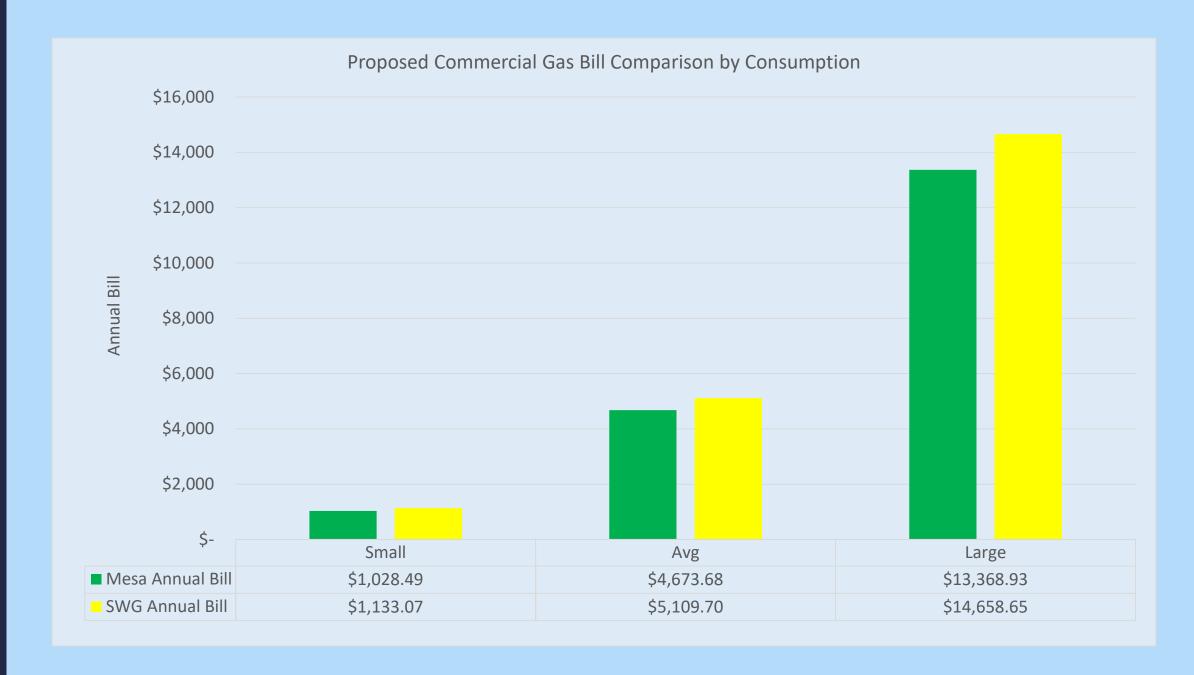
- PNGCAF in PROPOSED column is average of PNGCAF forecast for FY 19/20
- 3.2% decrease for average residential customer (22.47 therms/month) PNGCAF reductions offset System Service Charge increase



PROPOSED COMMERCIAL GAS RATES

COMPONENT	CURRENT	PROPOSED
SYSTEM SERVICE CHARGE (Avg.)	\$ 38.50/MON	\$ 40.50/MON
USAGE CHARGE	\$ 0.5718/therm	No Change
NATURAL GAS SUPPLY COST	\$ 0.24731/therm	\$ 0.19138/therm

- PNGCAF in PROPOSED column is average of PNGCAF forecast for FY 19/20
- 7.4% decrease for average commercial customer (467.89 therm/month) PNGCAF reductions offset System Service Charge increase



PROPOSED LARGE CNG GAS RATES

COMPONENT	CURRENT	PROPOSED
SYSTEM SERVICE CHARGE (Large)	\$ 38.50/MON	\$ 100.00/MON
USAGE CHARGE	\$ 0.0879/therm	\$ 0.1379/therm
NATURAL GAS SUPPLY COST	\$ 0.24731/therm	\$ 0.19138/therm

- PNGCAF in PROPOSED column is average of PNGCAF forecast for FY 19/20
- PNGCAF reductions offset proposed increases

Percent <u>Decrease</u> by Customer		
Customer 1	Customer 2	
4.0%	3.4%	



PROPOSED SMALL CNG GAS RATES

COMPONENT	CURRENT	PROPOSED
SYSTEM SERVICE CHARGE (Small)	\$ 38.50/MON	No Change
USAGE CHARGE	\$ 0.0879/therm	\$ 0.1379/therm
NATURAL GAS SUPPLY COST	\$ 0.24731/therm	\$ 0.19138/therm

- PNGCAF in PROPOSED column is average of PNGCAF forecast for FY 19/20
- PNGCAF reductions offset proposed increases

Percent <u>Decrease</u> by Customer		
Customer 1	Customer 2	
2.7%	4.6%	



QUESTIONS?

PROPOSED RESIDENTIAL ELECTRIC RATES

Proposed increase to Residential System Service Charge is appropriate method to increase revenues

- Revenue Stability
 - Revenue needs are insulated from extreme weather & associated consumption
 - Customer benefit bill spikes are mitigated when inordinate weather spikes consumption
 - Utility Benefit precipitous drops in revenue are mitigated when mild weather results in reduced consumption
- AMI will increase the costs of metering, billing, etc. these costs are typically recovered in this component
- Recent rate increases (since 2014) offset by EECAF decreases since 2012
- Residential Rates/Bills remain comparable with SRP residential customers
- Benefits to SEA participants increase by 1.5%

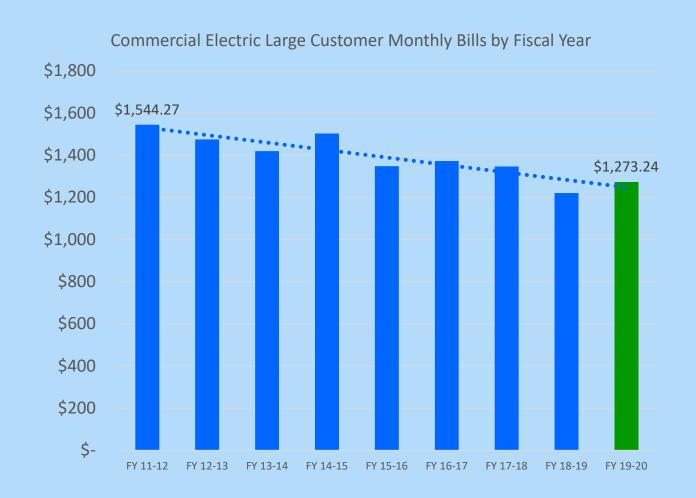
ELECTRIC RESIDENTIAL BILL COMPONENTS

COMPONENT	RATES	AVG CUST BILL
SYSTEM SERVICE CHARGE	\$ 11.75/MON	\$ 11.75
USAGE CHARGE *	\$ 0.05128/kWh	\$ 38.34
ELECTRIC ENERGY SUPPLY COST **	\$ 0.04407/kWh	\$ 36.84
TOTAL BILL		\$ 86.93 \$ 0.1037/kWh

- * Summer rate for 1-1200kWh/month
 - \$ 0.04822 for >1200 kWh
 - Lower rates in Winter months
- ** Electric Energy Supply Cost Adjustment Factor (EECAF)
 - Adjusted Monthly
 - \$0.03951 \$0.05533 in the most recent 12 months

PROPOSED LARGE COMMERCIAL ELECTRIC RATES

- Only EECAF adjustments since 2004
- Large commercial bills have decreased 21.2% over 8 years
- \$1.00 increase to System Service Charge for all commercial customers
- 5.2% increase for Large commercial customer (3,919 kWh/month)



GAS RESIDENTIAL BILL COMPONENTS

COMPONENT	RATES	AVG CUST BILL
SYSTEM SERVICE CHARGE *	\$ 17.24/MON	\$ 15.78
USAGE CHARGE *	\$ 0.6685/therm	\$ 14.08
PURCHASED GAS SUPPLY COST **	\$ 0.24731/therm	\$ 6.22
TOTAL BILL		\$ 36.08 \$ 1.88 /therm

- * Winter rate for 1-25 therms/month
 - \$ 0.4926 for >25 therms
 - Lower rates in Summer months (\$ 14.31 system service charge)
- ** Purchased Natural Gas Cost Adjustment Factor (PNGCAF)
 - Adjusted Monthly
 - \$0.10000 \$0.34954 per therm in the most recent 12 months

