



Energy Edge

A NEWSLETTER FOR MEMPHIS LIGHT, GAS AND WATER DIVISION GENERAL POWER CUSTOMERS
JUNE 2018

Utility rate increases go into effect with July billing period

In February, the Memphis City Council completed approval of MLGW's 2018 operating budget, including small increases in electric, gas and water rates.

The electric and gas increases, which average 2%, will be effective with July billing periods. This revenue will help fund MLGW infrastructure improvement projects.

A 1.05% water rate increase, which will fund a study of the aquifer system from which MLGW draws the community's drinking water, became effective with meters read on 1/31/2018.

Updated electric and gas rate sheets will appear soon at <http://www.mlgw.com/commercial/commercialrates>

Carbon allocation data released for calendar year 2017

CO₂ decreases as TVA generation portfolio evolves

Carbon emissions from power distributed locally by MLGW has been steadily decreasing as part of TVA's cleaner energy initiative. TVA has reduced CO₂ emissions about 47% below 2005 levels and is on track to reduce CO₂ emissions nearly 60% below 2005 levels by 2020. This means your organization's carbon footprint has improved as well, which is great news—especially if you report carbon data for corporate, community or branding purposes.

MLGW's calendar year (CY) 2017 as-delivered CO₂ emission rate average for customers on the General Power Rate is 864.12 CO₂ lbs/MWh. In comparison, the current EPA eGRID (Year 2016) regional rate is 1,185.40, while the national rate is 998.40.

Consistent with generally accepted voluntary carbon accounting standards and in response to customer requests, TVA's actual CO₂ emissions have been annually allocated to customers in the same manner as costs. MLGW CY17 CO₂ lbs/MWh rate includes emissions and generation from TVA-owned and purchased power.

MLGW Rates

MLGW's current and historic electric, natural gas and water rates are published at www.mlgw.com, along with updated Purchased Gas Adjustment and Fuel Cost Adjustment rates.

Purchased Gas Adjustment (PGA)

MLGW Rate	Consumption	Demand
G-1 residential	\$0.015	na
G-7	\$0.010	na
G-8 / G-9	(\$0.002)	\$0.038
G-10 / G-12	(\$0.038)	na

Monthly adjustment in \$/Ccf to published natural gas rates for meters read on or after 6/1/2018.

Fuel Cost Adjustment (FCA)

TVA Rate Class	MLGW Rate Code	FCA Amount
GSA, Part 1	E-2	\$0.01946
GSA, Part 2	E-2	\$0.01946
GSA, Part 3	E-2	\$0.01922
Residential	E-1	\$0.01969
Outdoor Lighting	E-3	\$0.01985

Monthly adjustment in \$/kWh to all firm kWh, beginning with meters read on or after 6/1/2018.



Important Contact Information

Business Solutions Center:

Monday-Friday

8:00am-4:30pm Central

Phone: 901-528-4270

Fax: 901-528-4547

E-mail: mlqwbsc@mlgw.org

Emergency: 901-528-4465

Outage: 901-544-6500

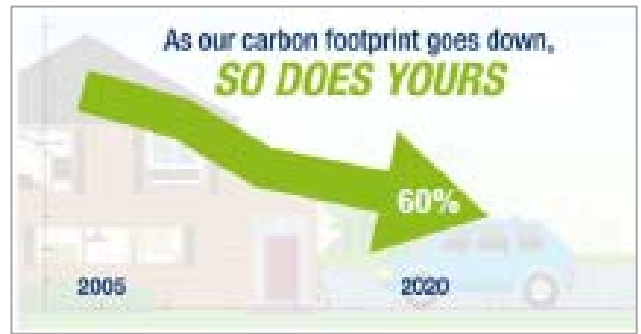
Maintenance,
Trouble and Gas

Pilot Safety: 901-820-7878

VIEW YOUR BILL ONLINE AT www.mlgw.com

The CO₂ rates disclosed reflect TVA's 2017 renewable energy credit adjustment, which resulted in an insignificant impact (0.001%) in the CO₂ lbs/MWh rate.

This data reflects the average for the 154 local power companies that distribute TVA power—including MLGW—and is based on consumption for commercial customers on the General Power Rate, which is shown as “E-2” on the MLGW bill. CO₂ emissions data for larger commercial and industrial customers on time-based electric rates is excluded from this average.



MLGW recognizes that carbon performance can be a critical factor in corporate decisions and is increasingly needed for voluntary carbon accounting. Carbon accounting users still must quantify their Scope 2 emissions associated with electricity use for CH₄ and N₂O emissions, using their choice of default factors for these gases.

Read more at: <http://www.mlgw.com/community/carbonallocation> Please share this information with your staff involved in sustainability or environmental reporting.

MLGW 2017 Water Quality Report available

MLGW has published its annual Water Quality Report, detailing the purity and composition of our community’s drinking water supply. Specialists in MLGW’s Water Laboratory perform numerous tests throughout the year to monitor components of Memphis’ water.

All community water systems are required to prepare and distribute an annual water quality report. MLGW is proud to continue to provide excellent drinking water for the citizens of Memphis and Shelby County.

The report is available online at www.mlgw.com/waterquality . Customers can also request a printed copy of the report by calling (901) 320-3950 or emailing corpcomm@mlgw.org .



MLGW launches “Power Up Memphis” video series to provide inside look at utility operations and offerings

MLGW recently launched a new YouTube series to educate customers on the operations and offerings of the nation’s largest three-service public utility. The April broadcast of “Power Up Memphis” features an interview with JT Young, MLGW’s new President and CEO. Watch the 30-minute segment here:

<https://youtu.be/GzG6yqdl8b4>

“Power Up Memphis” joins other MLGW video series—including “Memphis Energized,” “Conservation Tips” and “Here’s How”—to help customers identify methods to reduce utility waste, control expenses and learn about new programs and customer services. Find video posts at:

https://www.youtube.com/channel/UCRDB5I9CiSD_fgLP_S_cnBA

Allen Natural Gas Plant, among world's most efficient plants, begins commercial operation in Memphis

The future of power production in Memphis is here—and it looks like the Allen Natural Gas Plant. Located at the site of the old Allen Fossil Plant, which ceased operations at the end of March, the new gas plant is now complete and entered its commercial operation stage on 4/30/2018 at 2:00pm Central.

The plant features a two-on-one combined cycle unit, which means that two combustion turbine generators work in conjunction with two heat-recovery steam generators and a steam turbine generator. In the first cycle, natural gas is burned to directly power two gas turbine generators that produce electricity.



The hot exhaust normally lost during this process is captured for the second cycle, where it is used to boil water into steam in the heat recovery steam generators. The steam spins an additional turbine generator to produce more electricity. The steam is then condensed back to water and recycled. Water for the Allen Natural Gas Plant is being provided by MLGW.

Methane gas from the City of Memphis' neighboring Maxson Wastewater Treatment Plant also is burned at Allen, and the site features a 1 megawatt solar farm. Taken together, the \$900 million local investment will generate roughly 1,000 megawatts of power—or enough to power more than 500,000 homes and businesses in the region.

See aerial footage of the plant at: <https://www.tva.gov/Energy/Allen-Natural-Gas-Plant-Goes-Commercial>

Business Energy Advisor provides online updates on technologies

MLGW's Business Energy Advisor web portal, which provides unbiased information on new and expanding technologies, has updated content on two commercial technologies helpful in the hot Mid-South.

- **Window films.** In commercial buildings, windows can increase HVAC energy consumption and occasionally pose additional problems (like glare) for occupants. Window films provide a straightforward way to address these issues without replacing the entire window. Learn the latest information at: https://mlgw.bizenergyadvisor.com/BEA1/PA/PA_BuildingEnvelope/PA-07
- **Evaporator fan motors.** Commercial refrigerated display cases require enormous amounts of energy to keep cool. According to the US Department of Energy, display case evaporator fan motors alone can account for about 15% of a supermarket's total energy costs. The good news is that there are new technologies designed to reduce this energy consumption, including a brand new type of motor that can deliver 20% energy savings over the next-most-efficient technology, yielding rapid simple payback periods for customers. Read details about the various options on the market at: https://mlgw.bizenergyadvisor.com/BEA1/PA/PA_Refrigeration/PA-70

In addition to technology, Business Energy Advisor provides energy-saving and operations tips on 24 business types, calculators and other features to assist business users seeking unbiased sources when exploring facility improvements. Check it out before you make your next energy upgrade!

MLGW IN THE COMMUNITY



Photo, above left: MLGW employees participated in the National Kidney Foundation's annual Kidney Walk on 6/2/2018. MLGW was recognized as one of the top corporate fundraisers.

Photo, above right: Memphis-area students participated in MLGW's annual Student Art Contest, creating imaginative, educational images depicting the natural gas safety theme. The winning students were honored at MLGW's 5/2/2018 Board meeting with their parents and teachers.



Photo, middle right: MLGW bowling teams rolled into Billy Hardwick's Lanes 4/17/2018 to compete for bragging rights while raising funds to benefit Junior Achievement during the 33rd annual Bowlin' on the River fundraiser. MLGW bowling teams ranked second in the city for funds raised.

Photo, lower right: MLGW President J.T. Young presents an award to LeBonheur staff and members of their project team for earning LEED Silver for the new Faculty Office Building on the hospital's campus. The incentive recognizes businesses that have constructed new facilities with superior energy- and water-saving measures and obtained certification under the Leadership in Energy and Environmental Design (LEED) standards from the U.S. Green Building Council. Learn more at: <http://www.mlgw.com/commercial/leedincentive>



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