

September 15, 2022

#### **New EVC Rate Option**

Resolution 1463 – Second and Final Reading

#### New EVC Rate

- Energy charges now vary (on-peak and off-peak rates)
- Facilitates transition to GSA-TOU rate
- Removes certain charges, typically associated with larger loads
- No change in KUB margin

### Resolution 1463 – Second Reading

- Authorizes amendment of rate schedules of Electric Division to provide for new EVC rate (replaces existing EVC rate)
- Amends Purchased Power Adjustment to reflect new EVC rate
- Effective October 1, 2022



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#### Long-term Natural Gas Supply Contract



# **KUB Natural Gas Purchasing Practices**

- Resolution 1387 provides framework
- Diversify geography, supply, and time
- Most gas bought from large producers of marketers
  - Year-round
  - Winter or summer only
  - Monthly
  - Daily
- Duration
  - Most contracts are from one to five years
  - Board authority required for >six years
- KUB has one pre-pay supply contract currently

### What is Pre-Pay Gas?

- Long-term, year-round gas purchase commitment
- Very common practice for non-profit local distribution companies (LDCs)
- Provides discount on purchases
- Only eligible to qualified users
- Relies on favorable interest rate environment
  - Taxable and tax-exempt bonds spread
  - Window of opportunity can be short

# Potential \$10M Savings

- Discount to gas index minus ~\$0.33
  - \$338,000 annual savings on 2,800 Dth/d
  - Potential \$10,118,000 savings over term
  - Repricing may occur after initial period concludes
- 2,800 Dth/d (10% supply)
- Total savings for pre-pay transactions \$20M
- All savings flow through to customers

### Resolution 1464

- Authorizes KUB to sign contract with Tennergy
  - Up to 32-year natural gas supply contract
  - Potential savings of \$0.33 per Dth for initial period of approximately five to seven years
- Authority to sign contract expires August 31, 2023





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#### **Environmental Stewardship Updates**

# **Community Solar Coming Soon**

**Construction Update** Panel installation now complete

Interest List Over 470 submissions

**Program Launch** Winter of 2022/2023

**Communications Plan** Billboard, digital ads, news releases, community celebration



# **KUB Supports Home Energy Efficiency**





2,176 Homes weatherized *s*ince 2015



# \$28.5 Million

Committed to energy efficiency through FY23



# \$2 Million

Anticipated ongoing annual commitment

15% Average electric savings

# **KUB Weatherization Funding**

#### **KUB Weatherization Program Funding Sources**

- KUB annual investments
- Customer Round It Up contributions
- TVA Home Uplift match funds
- Grant funds (TDEC)

#### Total Weatherization Funding Per Customer (FY21)



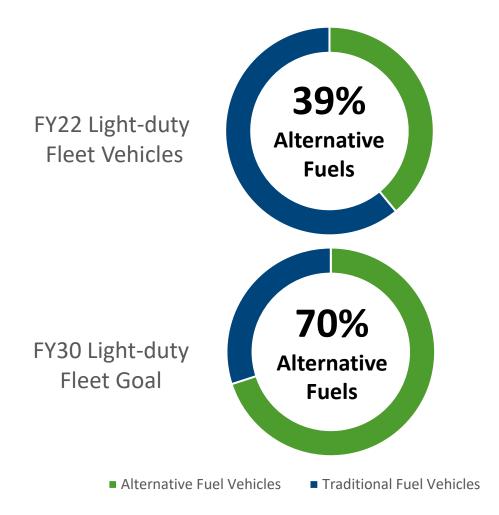
#### **Community Centered Growth Pilot**

- TVA pilot program to provide energy upgrades for small businesses in disadvantaged communities
  - Controls & lighting
  - Security lighting
  - HVAC
  - Kitchen upgrades
- KUB recruited 11 businesses in the East Knoxville community
- TVA has invested more than \$725,000 in improvements



<u>KUB 2022 Participants</u> Bates Barber and Beauty Salon Time Out Deli and Market Keenan Grimes Community Outreach Center The Love Kitchen, Inc. Nana's House Learning Center Olive Street Soulful Market & Deli B&B Lawn Services, Inc. Petree's Flowers CONNECT Ministries New Directions Health Care Crutcher Memorial Youth Enrichment Center

# Fleet Modernization Plan



# **Improving Resiliency** Establish replacement plans and rotation cycles

#### **Reducing Emissions**

Transition to alternative fuel sources such as electric, compressed natural gas, and flex-fuel

#### **Increasing Efficiency**

Reduce fuel consumption by right-sizing vehicles and managed idle technologies

# TVA & TDEC Fast Charge Tennessee Network

TVA and TDEC are partnering with Local Power Companies to install EV fast charging stations every 50 miles along major travel corridors

- Eliminates range anxiety
- LPCs will install, own, and operate
- TVA and TDEC provide 80% funding
- Approximately 70 projects submitted



Fast Charger Ribbon Cutting in Martin, TN on August 30

# KUB Electric Vehicle Fast Charger Projects

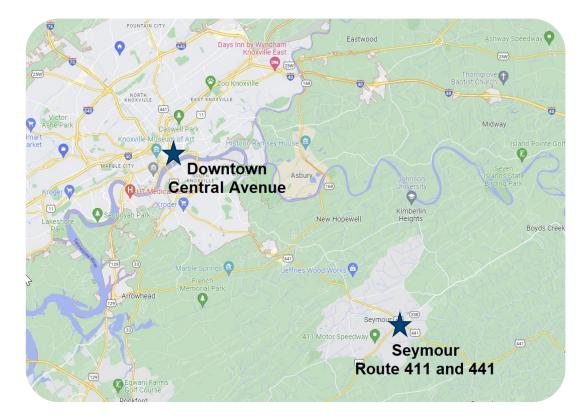
#### **Downtown Knoxville**

- Street Parking at Central Avenue at State Street
- City of Knoxville partnering to fund project

#### Seymour Route 411 and 441

• Site host discussions underway

#### **KUB Project Locations**



# APGA Excellence in Environmental Sustainability

- Enhanced leak detection and repair programs and infrastructure replacement
- Third-party damage prevention
- Energy efficiency programs
- Greenhouse gas reporting
- Methane reduction technologies and best practices
- EPA Methane Challenge participation
- Evaluating low-carbon energy sources







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#### Water System Update

## In the News

#### February 2021



Southern exposure: Cold wreaks havoc on aging waterworks

In Shreveport, where about 200,000 people were being told to boil their water, Mayor Adrian Perkins pointed to "old, aging infrastructure, just like most American cities."

...at least 7 million Texans were told to boil their water

Mayor Chokwe Antar Lumumba (Jackson, MS) said close to \$2 billion is required to modernize its water system...Monday was the first time in a week that residents could line up for water outside of Madonna Manor, a 13-floor apartment complex for seniors and people with disabilities. People brought laundry pails, bowls, buckets and wastebaskets.

#### September 2022

#### yahoo/news

Joy Addison Thu, September 8, 2022 at 6:57 AM

People in Jackson, Mississippi, are going on week two without one basic human necessity: clean drinking water.

"We've been on a boiled water notice for six weeks"

**Clarion Ledger** 

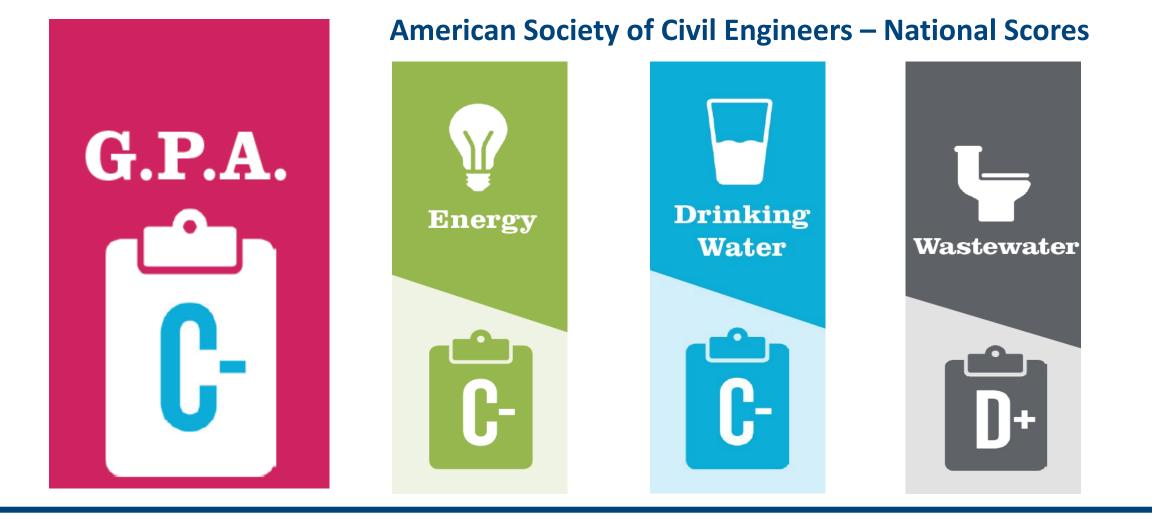
Wicker Perlis, Mississippi Clarion Ledger Published 9:02 pm CT, September 6, 2022

Part of the USA TODAY Network

"...its not a matter of if these systems will fail again but when these systems will fail again if we don't have permanent fixes in place. Our stopgap measures will not be sufficient. There are more repairs taking place on a permanent level than has happened before, but there is still a significant road ahead."

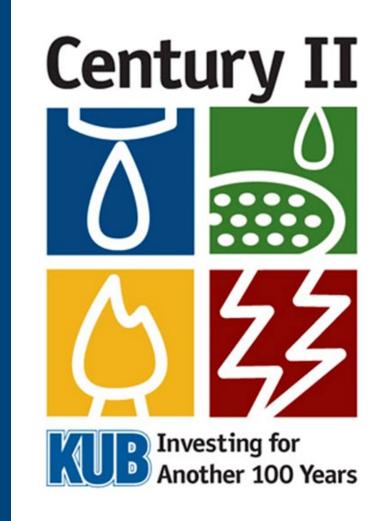
– Jackson, MS Mayor Chokwe Antar Lumumba

# 2021 ASCE Infrastructure Report Card Reveals National Challenges

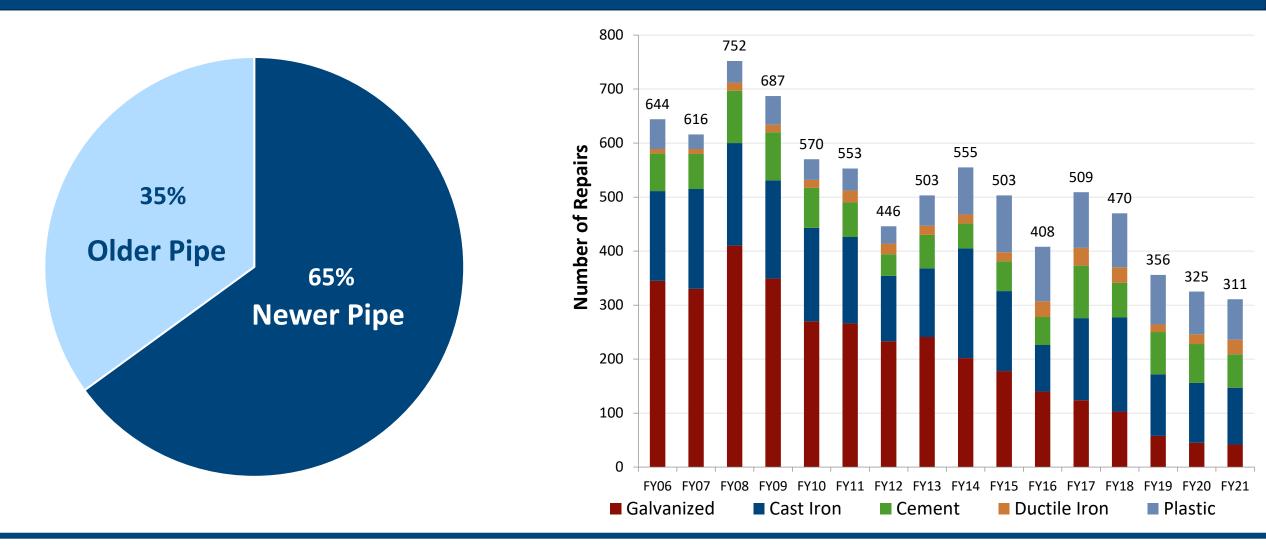


#### Century II Puts KUB Ahead of the Curve

- Century II investments in water began in 2006
- Utility assets and infrastructure management
  - Comprehensive, data-driven assessments
  - 10-year financial plans, including debt, rates
  - Improves safety, reliability, quality, and resilience
  - Prioritizes proactive customer communication
  - Positions our communities for growth
- Cross-functional planning and oversight
- Evolving with technology and experience



### Century II Investments Safeguard Water System



# Water Supply Master Plan Builds Resiliency

Phase	Project	Timeframe	Cost
<u>Phase 1</u> Complete	High Service Main	FY17 – FY18	\$2.2M
	Ph 1 Electrical Upgrades	FY17 – FY18	\$2.3M
	Generators	FY19 – FY21	\$12.9M
Phase 2 Underway	Filters	FY22 – FY25	\$65M
<u>Phase 3</u> Future	Raw Water Distribution & Phase 2 Electrical	FY26 – FY27	\$12M
	Low Pressure Pump Station & Intake	FY28 – FY30	\$20M
	High Service Pump Station & Clearwell	FY30 – FY32	\$30M





#### Investments in Maintenance & Technology Ensures System Performance

- Proactive system modeling and planning
- Pressure management
- Station and tank maintenance
- Transmission and distribution valve inspection
- Test hydrants for fire flow requirements
- Leak detection (find and fix)





# Laboratory and Water Quality Assurance

- State-certified laboratory
  - 20 experienced employees
  - Over 100K tests annually
  - 150 parameters
- Water quality programs and continuous monitoring
  - Daily analysis
  - Customer quality programs
  - Cross connection prevention
  - System flushing
  - Source water protection program



#### Industry Recognition for Water System

- Two-time Water Resources Utility of the Future recipient
- Two National Environmental Achievement Awards 2020
- Water Quality Lab
  - Perfect scores on past three inspections (every three years)
  - Certified for more tests than any Tennessee public system







KUB: 865-524-2911 (Español oprima el numero 2) www.kub.org

