

## Community Advisory Panel Vegetation Management Program





### our Vision

KUB creates connections and enhances the quality of life in our East Tennessee communities so everyone can thrive.

### our Mission

KUB exists to serve its customers as a trusted partner and steward, providing industry-leading energy, water, and fiber optic services.

### we Value

#### **Our Customers**

- Our services are safe, reliable, and affordable
- We are committed to great customer service
- Our decisions consider everyone's needs

#### Our Co-workers

- We put safety first and take care of each other
- · We take pride in our hard work and expertise
- We invest in our people

### Our Community

- We are committed to a cleaner environment
- We are personally invested in our community
- · We help our region grow

#### **Our Culture**

- We always do our best and strive for better every day
- We hold ourselves to high ethical standards
- We value diversity, equity, inclusion, and belonging for all

## Vegetation Management



## Vegetation Management Program Tree Line USA

- Recognized as a Tree Line USA Utility for 22 consecutive years by the Arbor Day Foundation and the Tennessee Urban Forestry Council.
- Five Core Standards
  - Quality Tree Care
  - Annual Worker Training
  - Tree Planting and Public Education
  - Tree-Based Energy Conservation
  - Arbor Day Celebration





# Vegetation Management Program Community Partnership

Project partner in the development and implementation of the Knoxville Urban Forest Master Plan



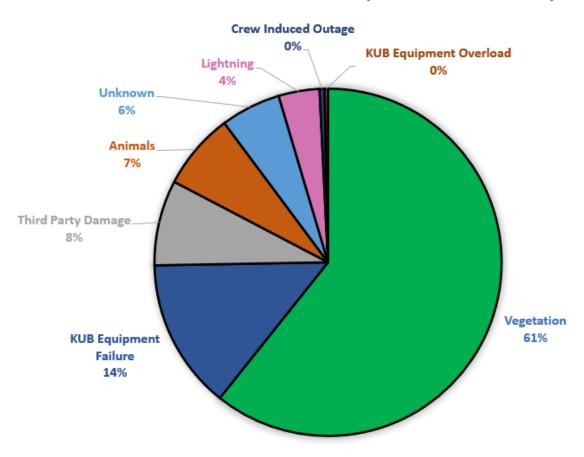
# Vegetation Management Program Right Tree Right Place

- Educates customers about not planting trees in the utility maintenance zone
- Provides information on native species and maturity size
- Educates on prioritizing tree plantings to maximize shade and lower cooling costs
- Provides tree planting tips and tree care
- Call before your dig to locate underground utilities



### Why Vegetation Management

#### CMI CAUSED BY VEGETATION FY23 (IEEE EVENTS EXCLUDED)



# Vegetation Management Electric Maintenance Program

### Subtransmission

- 265 miles
- 5-year cycle
- Approximately50 miles per year



### Distribution

- ~ 4,000 miles
- 3–5-year cycle
- Approximately950 miles per year



### Integrated Vegetation Management Methods

- Implementation of strategies to minimize the establishment of incompatible species in the utility maintenance zone
  - Tree pruning
  - Brush removal with power saws and equipment
  - Judicious use of herbicides
  - Hazard tree identification and removal

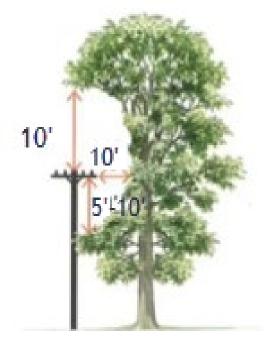


### How We Prune – Lateral Pruning

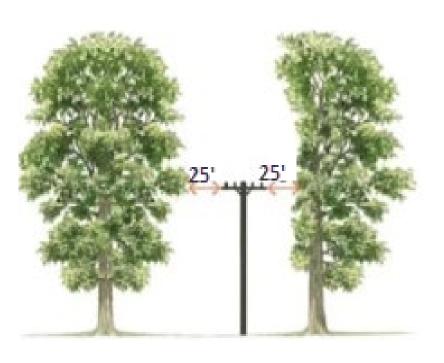
### **Lateral Pruning**

- Cutting to the parent limb
- Reduces impact to tree health
- Trains the tree to grow away for electric wires
- Recommended by the Arbor Day Foundation and the American National Standards Institute
- KUB does not "top" or "round" trees

### Distribution



#### Subtransmission



# Vegetation Management Programs Herbicide Application

- Cut stumps
- Rights of way
- Vines on utility poles
- Bare ground facility application



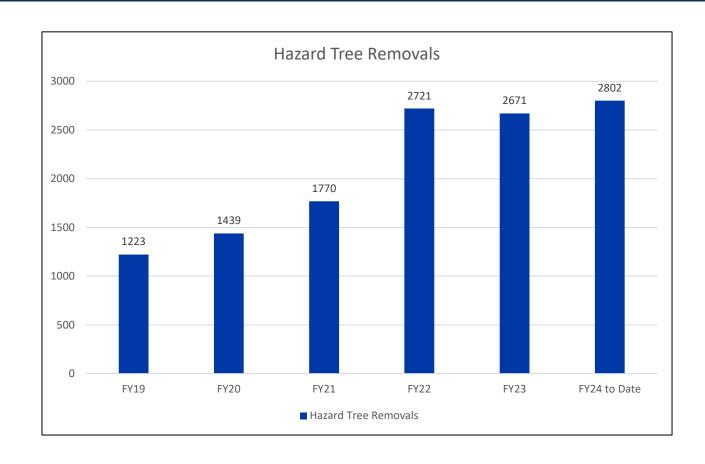






## Vegetation Management Programs Hazard Tree Removals

- Focus on tree removals in rightsof-way that are dead, diseased or possess other failure risk factors
- Identify during circuit trimming and capital construction jobs
- Post storm follow-up program to inspect the most impacted circuits and remove high risk trees



### Vegetation Management Staffing

- Nineteen KUB staff employees
  - 1 Supervisor
  - 2 Team Leads
  - 12 Foresters
  - 4 Support Staff
  - 1 KUB Tree Crew
- Twelve prequalified contractors to perform vegetation maintenance activities
  - 30 50 crews
- Support five utilities









### Tree Trim Policy Review Panel

- February 2010 KUB established the Tree Trim Policy Review Panel
- November 2010 Panel presented KUB with their report
  - 75 panel recommendations
  - 150 action items
    - All but four were indorsed by KUB Board of Commissioners
- 2011 2012 Phased implementation of recommendations
- January 2012 Year-end progress report submitted
- November 2012 Final progress report submitted to Board implementing actions endorsed in Resolution 1234

## Aesthetics, Implementation, & Preventative Actions In-House Staffed Foresters

- Panel recommended in-house foresters
  - KUB disagreed at the time due to additional costs
- Current Process
  - No longer utilize contract foresters
  - Ten staff foresters added in 2022
  - Professionals with four-year forestry or natural resource degrees
  - ISA Certified Arborist
  - Oversees circuit trimming and removal operations, and auditing contractor's work for compliance to KUB's specifications
  - Improved communication with customers



# Aesthetics, Implantation, & Preventive Actions Tree Replacement Program

- Enhanced program by offering a wider variety of low-growing species
- Offering additional replacement trees to customers in tree equity outreach areas
- Developing an educational mailing after each planting to include tree care, Call 811, and Right Tree Right place



Planted 466 Replacement Trees in FY24

# Aesthetics, Implementation, & Preventative Actions Coordinate Scheduling of Circuits

- Panel requested pruning of 13kV and 69kV within the same neighborhoods be completed at the same time.
- KUB adjusted the schedule and modified contract for distribution and subtransmission lines to prune at the same time.

#### **Current Process**

• 69kV Maintenance Program was implemented to ensure all subtransmission lines are completed on a five-year cycle.

# Dispute Resolution Vegetation Management Customer Advocate

- Vegetation Management Customer Advocate
  - Created to resolve elevated customer tree pruning concerns
- Recommendation
  - Dissolve advocate role and process issues through Customer Support



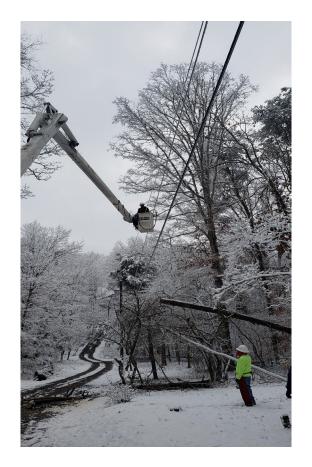
# Aesthetics, Implantation, & Preventive Actions Overhang Removal

### **Adopted Panel recommendation**

 Remove established overhang above the 10-foot clearance zone only if it is dead, diseased, weak, or possesses other failure risk characteristics.

#### Recommendation

• Remove established overhang to improve safety, reliability and repair costs.





## Discussion

