

We Energize Life

# **Vegetation Management**

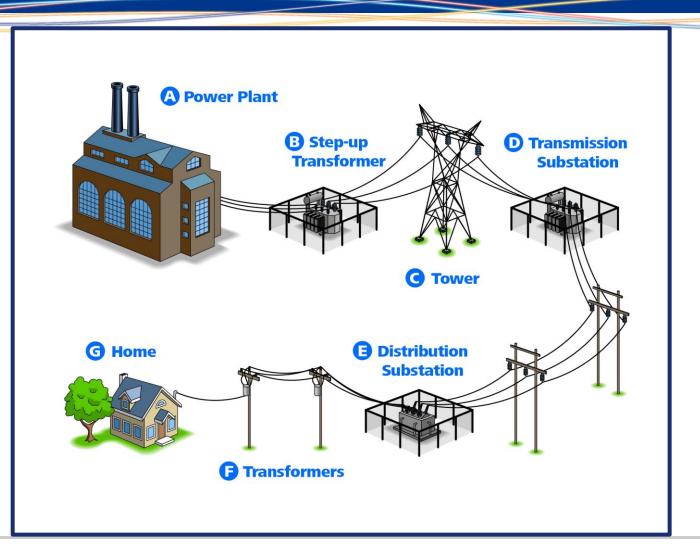


### **Topics Covered**

- Power Distribution
- Maintenance None Maintenance & Storm Response
- Veg Standards
- Veg Mgmt Innovations
- Right Tree Right Place
- Safety



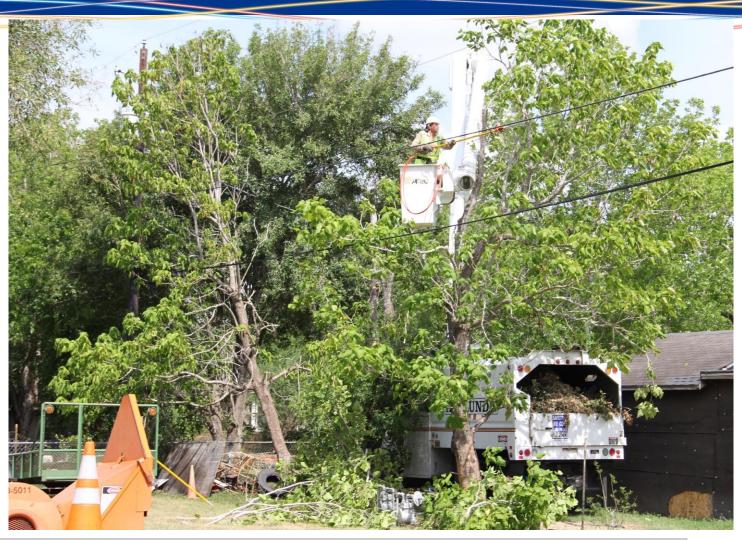
### **Power Distribution**





## **Maintenance - None Maintenance**

- 4-year Maintenance Plan (Cycle)
- None Maintenance
  - Special Projects (Capital Improvements)
  - Storms





### **Veg Standard Brush Policies**

- Routine maintenance (tree & line work) 1 remove brush and leave wood cut into firewood lengths
- After hours Outages 1 same as routine maintenance
- Large Area/Regional Storms 3 vegetation is left at the curb notification on events



#### Learn more: oge.com/vegetationmanagement



# **Planning**/ Notification

- Planning each work location • DRG, ECI, ACRT
- Door hanger •
- Automated Call •

#### Clearing the lines today for a safe and reliable tomorrow

To control the estimated 2.3 million trees growing near overhead power lines throughout our service. area, we prune and remove trees on a 4-year schedule with certified line-clearance arborists. We manage vegetation by physically pruning or removing undesirable vegetation. We may also apply, environmentally friendly herbicides and use tree growth regulators, which slows the growth rates of trees adjacent to power lines while maintaining the health of those trees.

Some of this work must be done on your property. This notice requires no response from you. However, if you would like to discuss the work being performed or need to make arrangements for locked gates or pets, please call the number below.

**Business Card** OR

Contact Name: Contact Number:

Thank you for helping OG&E provide safe and reliable power to your community.

For more information about our vegetation management process and FACIs, scan here or visit oge.com/vegetationmanagement.





#### Despejando las líneas eléctricas hoy para un mañana seguro y confiable

Para controlar los aproximadamente 2.3 millones de árboles que crecen cerca de las líneas eléctricas aéreas a través de toda nuestra área de servicio, podamos y retiramos árboles en un periodo de 4 años con arbolistas certificados en el despeje de líneas eléctricas. Controlamos la vegetación podando o eliminando fisicamente la vegetación indeseable. También podemos aplicar herbicidas aprobados ambientalmente y usar reguladores de crecimiento de árboles, los cuales retrasan las tasas de crecimiento de los árboles cercanos a las líneas eléctricas, manteniendo la salud de esos árboles.

Parte de este trabajo deberá llevarse a cabo en su propiedad. Este aviso no requiere ninguna respuesta de su parte Sin embargo, si desea comentarnos sobre el trabajo que se está realizarido o si necesita hacer arreglos para abrir rejas o asegurar a sus mascotas, por favor llame al número que aparece en la parte de atrás.

Gracias por ayudar a OG&E a proporcionar energia segura y confiable a su comunidad.

Para más información sobre nuestro proceso de control de vegetación y Preguntas Frecuentes (FAOs), escanee aquí o visite oge.com/vegetationmanagement.

> La poda de árboles alrededor de líneas eléctricas SOLAMENTE deberá ser realizada por parte de profesionales capacitados.



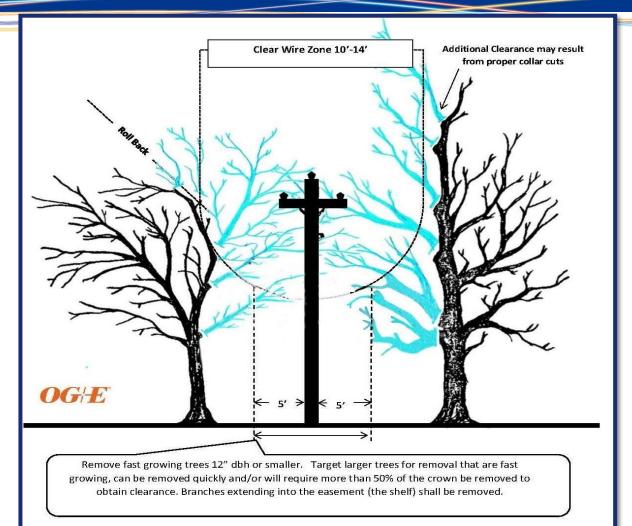
Energía para la Vida



Farmi Number 1000341

We Energize Life

- Hackberry
- Elm
- Mulberry
- Silver Maple
- Cottonwood
- Willow
- Targeting 12" or less















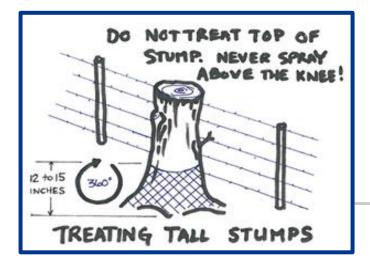


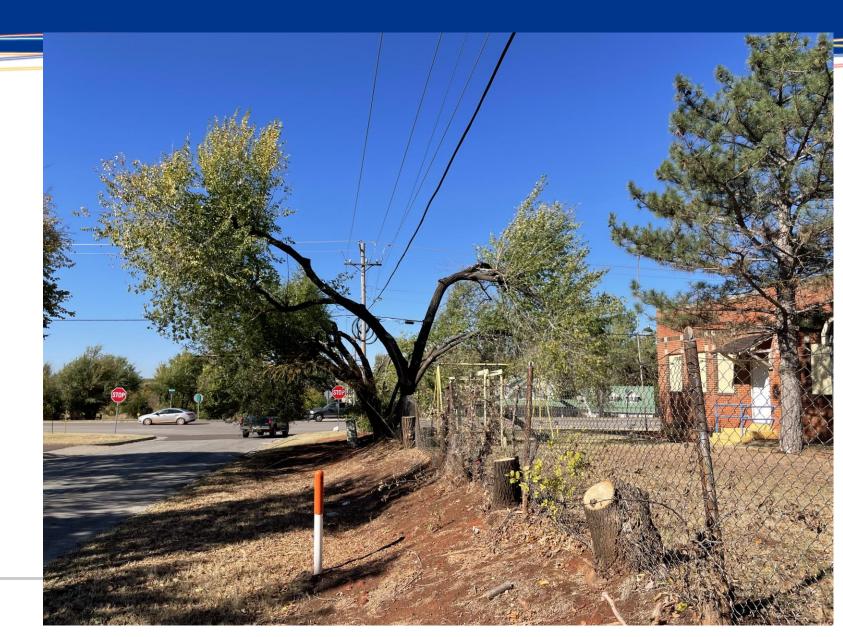


Cannot remove stumps in the fence

Potential for fence damage Potential Equipment damage Safety concern

• Treat stumps





## **Innovations - Herbicides**

- Rural unmaintained areas and areas... industrial areas etc. - foliar
- In town-maintained areas basal- TGR
- Strategic application





# Innovations - Tree Growth Regulators (TGR's)

- Tree Growth Regulators (TGR) are specially developed compounds applied to a tree to gently reduce growth.
  - Hormone that causes cell elongation
  - Cell division still occurs, but the new cells don't elongate.
  - Same number of leaves and internodes just compressed into a shorter length
- Reduced diameter growth of the trunk and branches
- Reduced growth and biomass without significantly altering its appearance.





## **Primary Benefits**

- Reduced growth (height)
- Reduced fruit growth
- Reduced radial growth
- Reduced pruning cycle
- Increased drought resistance
- Increased defenses

Ve Energize Life

Photos courtesy of Mark Bays



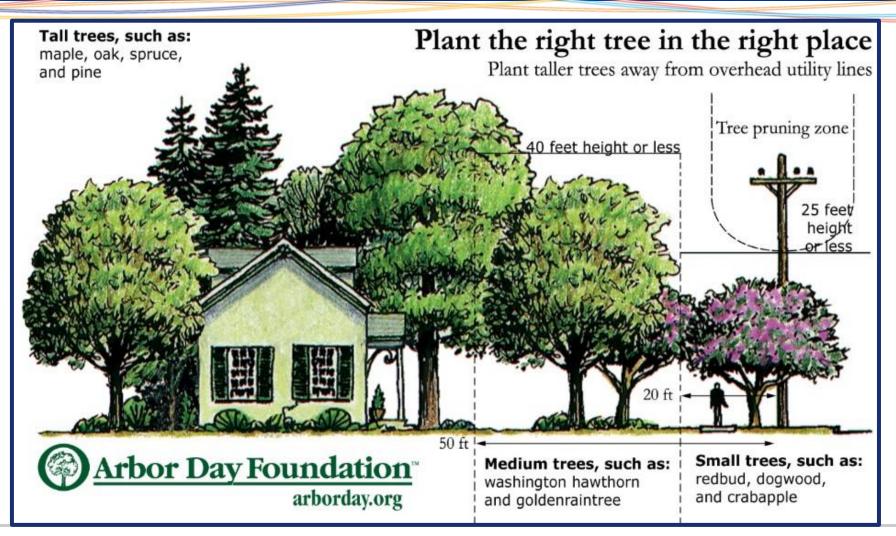
## **Primary Benefits**

- Soil applied
- Reapplied every 3 years
- Does not move in soil
- Tree ID tag





## **Right Tree, Right Place**





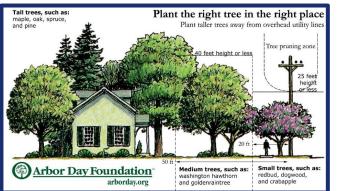
## Wrong Tree, Wrong Place

#### Hackberry

Mature Height 40-60 Feet

Mature Spread 40-60 Feet

#### Fast Growing



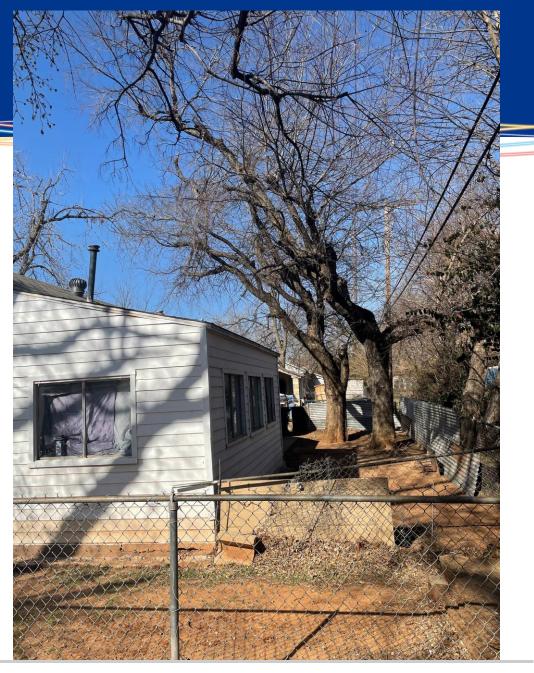




# Right or Wrong Tree?

Issues caused by situation

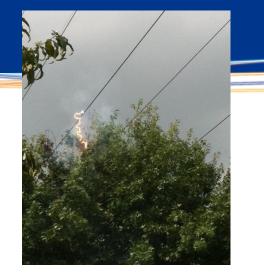
- Decreased reliability
- Increased safety concern for workers
- More time to trim & more debris for clean-up





### **Utility Friendly Tree Species**

Serviceberry - Fragrant Flower



Redbud Dogwood Hawthorn Serviceberry Chaste tree Yaupon Holly Winterberry Smoke tree Teddy Bear Magnolia

Crape Myrtle Crabapple Desert Willow Amur Mackia Shantung Maple Mexican Plum Star Magnolia



Common Lilac - Clay Soil, Showy Flower









Chaste Tree - Drought, Heat, Long Bloom Season Crepemyrtle - Multi-seasonal



Oklahoma Redbud - Native Understory Tree





Yaupon Holly - Native Broadleaf Evergreen



Shantung Maple - Heat Toleran

**Chinese Fringe tree** 

Sumac (Winged, Smooth or Flameleaf)

Horstman Dwarf Blue Atlas Cedar

Unusual Small Conifer, Foliage

# Safety



- Line clearance certified arborist
- Private arborist
- Side work or previous employment with utility clearance company
- Reason for 10' of clearance

Minimum Approach Distance ANSI Z133.201 M.A.D. For Qualified Line Clearance Arborists (QLCA)				
	Elevation	Elevation	Unqualified Workers	
Voltage Range (Phase-to-Phase)	Sea Level to 5,000 ft <sup>1</sup> Phase-to-Ground	5,000 to 10,000 ft <sup>1</sup> Phase-to-Ground	Nominal Voltage (Phase-to-Phase) <sup>2</sup>	Minimum Approach Distance (MAD) <sup>2</sup>
kV	ft-in	ft-in	kV	ft-in
0.050 to 0.300	Avoid Contact	Avoid Contact	50.0 and less	10-00
0.301 to 0.750	1-02	1-04	50.1 to 72.5	11-00
0.751 to 5.0	2-03	2-06	72.6 to 121.0	12-08
5.1 to 15.0	2-03	2-07	138.0 to 145.0	13-04
15.1 to 36.0	2-08	3-01	161.0 to 169.0	14-00
36.1 to 46.0	2-11	3-04	230.0 to 242.0	16-08
46.1 to 72.5	3-06	4-00	345.0 to 362.0	20-08
72.6 to 121.0	3-11	4-06	500.0 to 550.0	26-08
121.1 to 145.0	4-06	5-02	785.0 to 800.0	35-00
145.1 to 169.0	5-01	5-09	<sup>2</sup> Exceeds phase-to-ground	
169.1 to 242.0	7-00	7-11		per 29 cm 1910.555
242.1 to 362.0	11-09	13-06		
62.1 to 420.0	14-08	16-09	NORTI	H AMERICAN
20.1 to 550.0	17-06	20-00	TRAIT	NING SOLUTION
50.1 to 800.0	23-09	27-02		
rom 29 CFR 1910.269 Tables	R-6 & R-7 altitude corrected (R-5		www.NATS	training.com

