

**Chris Coker** 



infrastructure service



# What is Utility Vegetation Management (UVM)?





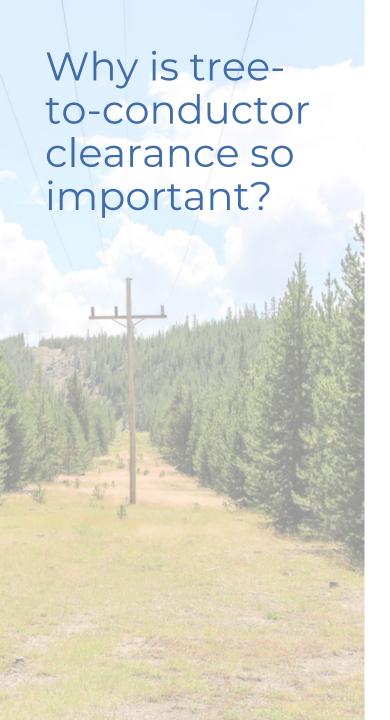












Wildfires

Public safety

Reliable electrical service



### **Top 20 Largest California Wildfires**

Г	FIRE NAME (CAUSE) DATE COUNTY ACRES STRUCTURES DE						
1	AUGUST COMPLEX (Lightning)	August 2020	Mendocino, Humboldt, Trinity, Tehama, Glenn, Lake, & Colusa	1,032,648	935	1	
2	DIXIE (Powerlines)	July 2021	Butte, Plumas, Lassen, Shasta & Tehama	963,309	1,329	1	
3	MENDOCINO COMPLEX (Human Related)	July 2018	Colusa, Lake, Mendocino & Glenn	459,123	280	1	
4	SCU LIGHTNING COMPLEX (Lightning)	August 2020	Stanislaus, Santa Clara, Alameda, Contra Costa, & San Joaquin	396,624	222	0	
5	CREEK (Undetermined)	September 2020	Fresno & Madera	379,895	853	0	
6	LNU LIGHTNING COMPLEX (Lightning/Arson)	August 2020	Napa, Solano, Sonoma, Yolo, Lake, & Colusa	363,220	1,491	6	
7	NORTH COMPLEX (Lightning)	August 2020	Butte, Plumas & Yuba	318,935	2,352	15	
8	THOMAS (Powerlines)	December 2017	Ventura & Santa Barbara	281,893	1,063	2	
9	CEDAR (Human Related)	October 2003	San Diego	273,246	2,820	15	
10	RUSH (Lightning)	August 2012	Lassen	271,911 CA / 43,666 NV	0	0	
11	RIM (Human Related)	August 2013	Tuolumne	257,314	112	0	
12	ZACA (Human Related)	July 2007	Santa Barbara	240,207	1	0	
13	CARR (Human Related)	July 2018	Shasta County & Trinity	229,651	1,614	8	
14	MONUMENT (Lightning)	July 2021	Trinity	223,124	50	0	
15	CALDOR (Human Releated)	August 2021	Alpine, Amador, & El Dorado	221,835	1,003	1	
16	MATILIJA (Undetermined)	September 1932	Ventura	220,000	0	0	
17	RIVER COMPLEX (Lightning)	July 2021	Siskiyou & Trinity	199,343	122	0	
18	WITCH (Powerlines)	October 2007	San Diego	197,990	1,650	2	
19	KLAMATH THEATER COMPLEX (Lightning)	June 2008	Siskiyou	192,038	0	2	
20	MARBLE CONE (Lightning)	July 1977	Monterey	177,866	0	0	

There is no doubt that there were fires with significant acreage burned in years prior to 1932, but those records are less reliable, and this list is meant to give an overview of the large fires in more recent times.

This list does not include fire jurisdiction. These are the Top 20 regardless of whether they were state, federal, or local responsibility.

\*Numbers not final.

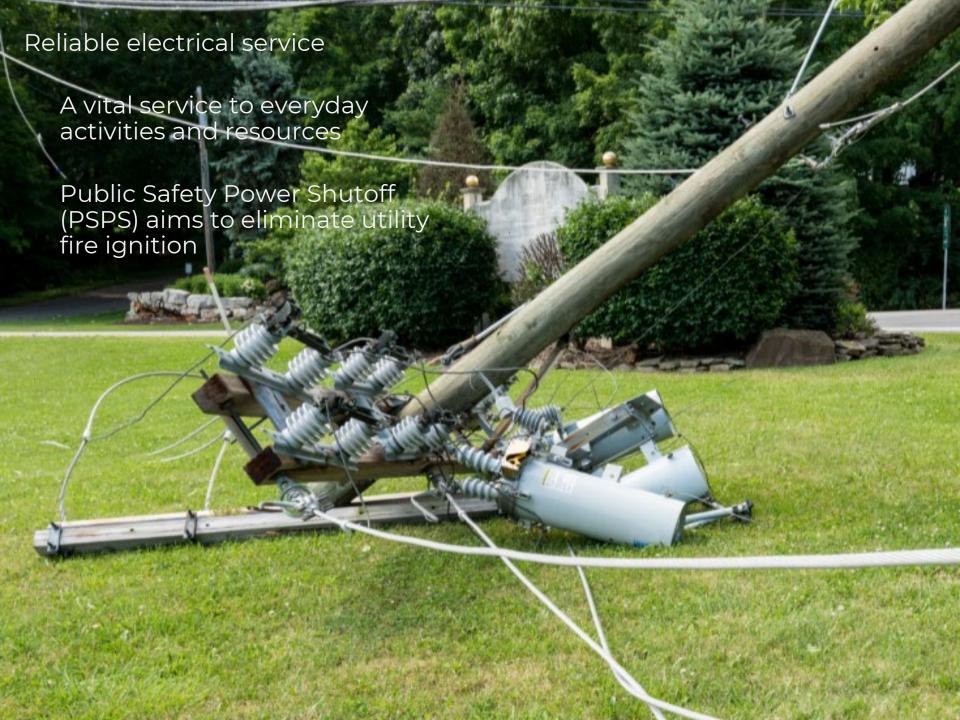


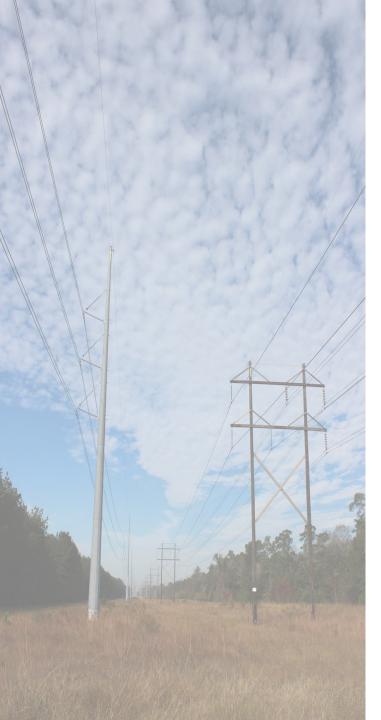
Public safety

Exposure to private tree trimmers

Potential for direct and indirect contact with downed wire







## Laws and Regulations

### Jurisdiction and History

#### CalFire

- Public Resources Code 4293 establishes 4-foot minimum radial clearance around conductors
- Public Resources Code 4292 establishes 10-foot clear cylinder at the base of certain poles

#### California Public Utilities Commission (CPUC)

General Order 95 – Rule 35

#### **OSHA**

- Occupational Safety and Health Standards
- Standard 1910.269 addresses personnel and equipment standards

#### ANSI

- A300 Tree Care Standard Practices
- Z133 Safety Standard

#### Local

Various local ordinances apply (e.g. protected species)



- Pruning and removal
  - Greater trim clearances
  - Removal of unmanageable trees
  - Right Tree Right Place compatible species
- Inspection frequencies
  - Compared to much of US, CA relies on shorter inspection/trim cycles
  - Invasive, fast-growing species
- Applied technologies
  - Rangefinders for tree-to-conductor measurements
  - LiDAR
  - Manned and unmanned aerial patrols
- Integrated Vegetation Management (IVM)
  - Promotes low-growing, compatible plant communities
  - Resist potential for tall species
  - Helps balance objectives; requires control methods
- Undergrounding
  - Burying overhead lines in high-risk communities



## Thankyou













## **Host Notes**

#### Bio:

Chris Coker is the Director of Health, Safety and Operational Risk for Iapetus Infrastructure Services companies

<u>"lapetus" is pronounced</u>

$$[EYE] + [AP] + [I] + [TUHS]$$

lapetus is a portfolio of energy services companies specializing in a wide range of scopes, including risk management, asset inspection, safety program development, storm response, and unmanned aerial vehicle data collection. Chris' experiences span across electric utility leadership in vegetation management, law, safety, regulatory affairs, and wildfire program management.

Chris is an ISA Certified Arborist and Utility Specialist. He holds a bachelor's degree in Finance and Risk Management, and lives in Southern California.