

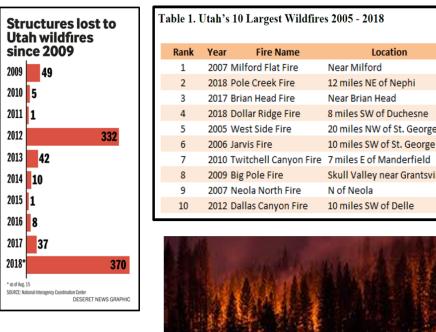
# Rocky Mountain Power Wildfire Mitigation Plan

Utah Public Service Commission Presentation August 12, 2019





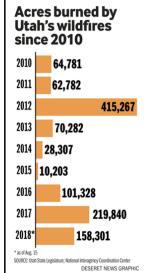
### Our Priority and Utah Wildfire Statistics



363,052 102,190 71,673 68,869 20 miles NW of St. George 68,264 50,738 45,126 44,345 Skull Valley near Grantsville 43,806 43,610

Acres Burned

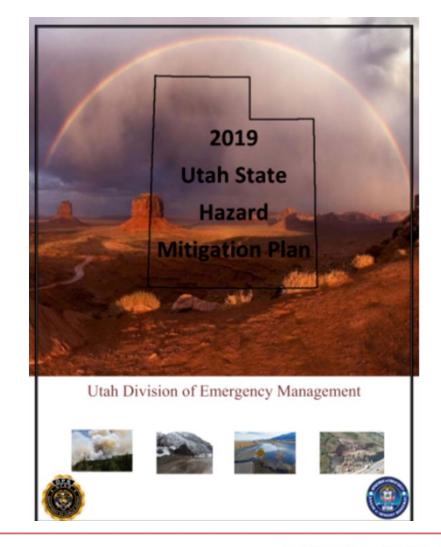
Wildfires can spread at up to 14.29 miles per hour. This rate means the fire that's 100 miles away could be right outside your home in seven hours.



 Protecting communities we serve while providing safe, reliable power, is our highest priority

### Utah Hazard Mitigation Plan – Wildfire

- Wildfires in Utah have become a significant problem impacting state and local economies, infrastructure, the environment and private land owners
- Utah Wildland Fire Policy has shifted from fire suppression to risk reduction
- The policy focuses on prevention, preparedness and mitigation





# Risk based approach to identify where is most at risk of catastrophic wildfire

#### Strengthen our system to mitigate wildfires

- Maintaining the safety of our system
- Seeking out new best practices to be even more vigilant

#### Work hand-in-hand with local community

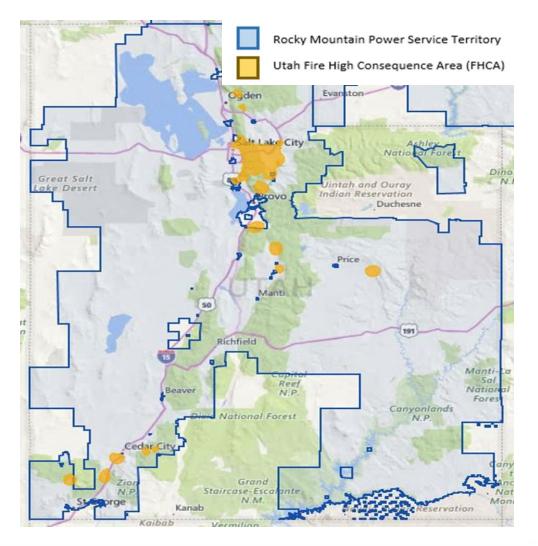
- Local emergency services, and community leaders
- Expand and enhance existing emergency response plans

# WILDFIRE SAFETY



### Fire High Consequence Areas Assessment

- Rocky Mountain Power identified areas in their service territory that are at a higher risk of fast-spreading, catastrophic fires
- Followed a systematic and tested process developed through lengthy California rulemaking to identify high fire risk areas
- Used historical data and wildfire risk analysis conducted by a Fire Investigation & Forensic Engineering Company to create a map of Fire High Consequence Areas (FHCA)



### Mitigation Steps We Are Taking

## We're adding new safety measures and system enhancements, including:

- Enhanced vegetation clearing practices
- Additional inspections
- Investments to improve system resiliency

## We're enhancing our situational awareness by:

- Identifying and prioritizing higher risk areas
- Field crews monitoring wildfire risk
- Monitoring weather and fire risk conditions
- Installing local weather stations
- Continuous monitoring of fire threats to utility infrastructure



### Vegetation Management

Enhanced vegetation management deployment in Fire High Consequence Areas

- Annual vegetation inspections and correction including removal of high risk trees identified during inspections
- Increase minimum clearance distance for vegetation from distribution lines
- Perform annual vegetation clearing around poles to reduce risk of fire ignition by electrical equipment

### Asset Inspections and Corrections

- Increased visual and detailed inspection frequency for overhead distribution and local transmission with focus on fire high consequence areas first
  - Visual inspection involves a brief inspection from a vantage point with reasonable viewing access to identify damage or defects visible from a distance or potential hazards or right-of-way encroachments
  - Detailed inspection involves visiting each structure, inspecting spans between structures to identify nonconformance with standards, infringements, defects, potential safety hazards and deterioration that need correction
- Pole test and treat overhead distribution poles
- Definitive correction timeframe implemented for conditions found
- Fire risk identification within FHCA reduces correction time allowed substantially

Overhead Distribution	Current Timeframe	Proposed Timeframe for FHCA	
Visual	2 years	1 year	
Detailed	20 years	5 years	
Pole Test & Treat	None	20 years	
Overhead Local Transmission	Current Timeframe	Proposed Timeframe for FHCA	
Visual	2 years	1 year	
Detailed	10 years	5 years	
Pole Test & Treat	10 years	10 years	
Overhead Main Grid	Current Timeframe	Proposed Timeframe for FHCA	
Visual	1 year	1 year	
Detailed	2 years	2 years	
Pole Test & Treat	10 years	10 years	

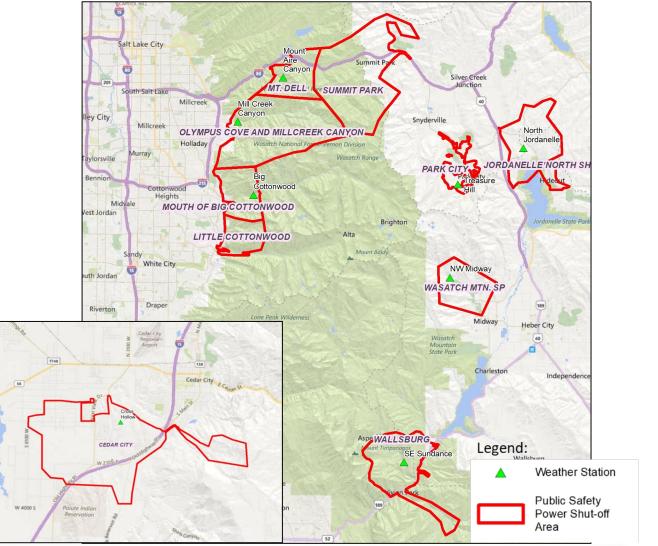
### Investments to Improve System Resiliency

- 82 circuits identified in Fire High Consequence Areas
- 18 circuits are in Public Safety Power Shut-off areas
- System hardening work underway in 2019 for circuits at:
  - Summit
  - Olympus
  - Wallsburg
- Additional system hardening work to occur in 2020

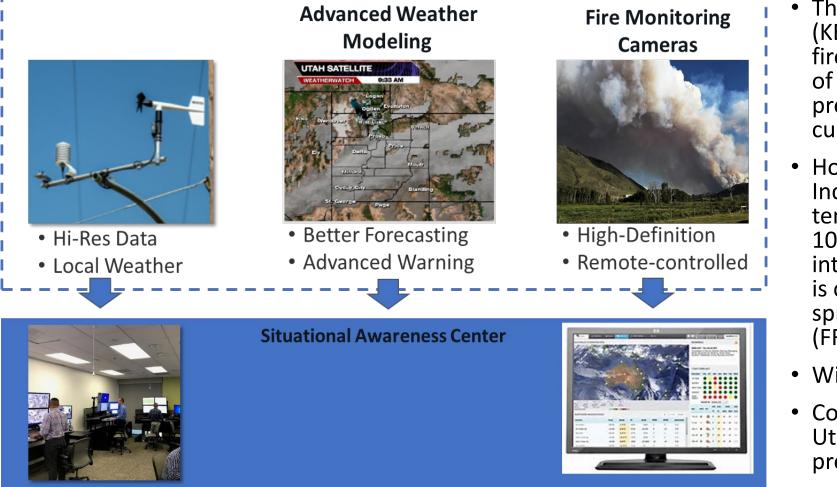


### **Enhanced Situational Awareness**

- Providing field crews with fire condition, fire suppression, and communication training
- 24x7 weather monitoring enabled utilizing Western Weather
- Installation of additional eight new local weather stations in-progress
- Collaboration with local agencies

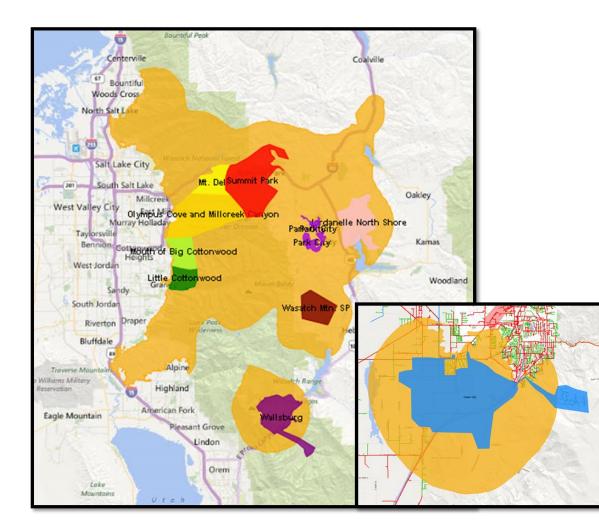


### Western Weather – Weather Monitoring



- The Keetch-Byram Drought Index (KBDI) which assesses the risk of fire by representing the net effect of evapotranspiration and precipitation in producing cumulative moisture deficiency.
- Hourly Fosberg Fire Weather Index (FFWI) which uses temperature, relative humidity, 10-minute wind-speed factored into a single weather index which is correlated to influence on fire spread, over a 6 hour period (FFWI6)
- Wind Speeds
- Collaborate with University of Utah to develop tools to better predict wildfire conditions

### Public Safety Power Shut-off Assessment



- Further assessment done that determined Public Safety Power Shutoff in areas that had potential for extreme fire conditions
- Total 699 line miles in Rocky Mountain Power Fire High Consequence Area
- Government agencies impacted

Agency Line Miles	BLM	Forest Service	Total
Distribution	9.1	175.5	184.6
Transmission	15.5	35.2	50.7

### A New Fire Mitigation Measure

We're adding a new tool to help keep people and communities in high fire risk areas safe – *Public Safety Power Shutoff.* 

#### What is a Public Safety Power Shutoff?

- We proactively shut off power during extreme and dangerous weather conditions that can result in catastrophic wildfires
- Used as a last-resort preventative measure
- Each situation is unique No single factor drives a Public Safety Power Shutoff
- Anticipated to be infrequent and only used under rare conditions



### A New Fire Mitigation Measure

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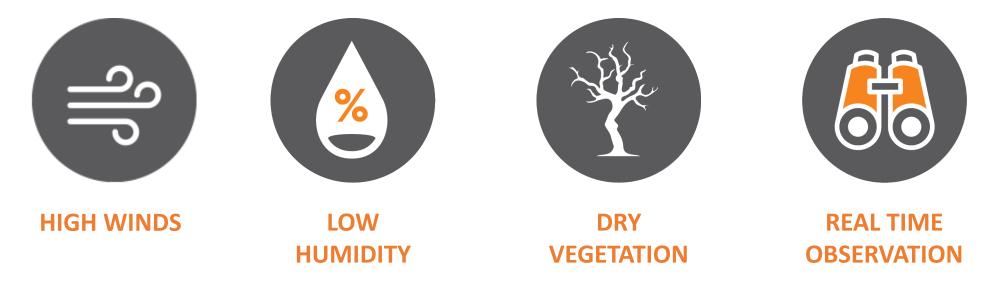
#### How does a Public Safety Power Shutoff work?

- Specific area and number of customers depends on forecasted weather and which circuits need to be turned off for public safety
- Coordinate with local leaders and emergency services
- Crews will visually inspect lines, clear debris and make repairs if needed before restoring power
- Will last as long as extreme conditions exist

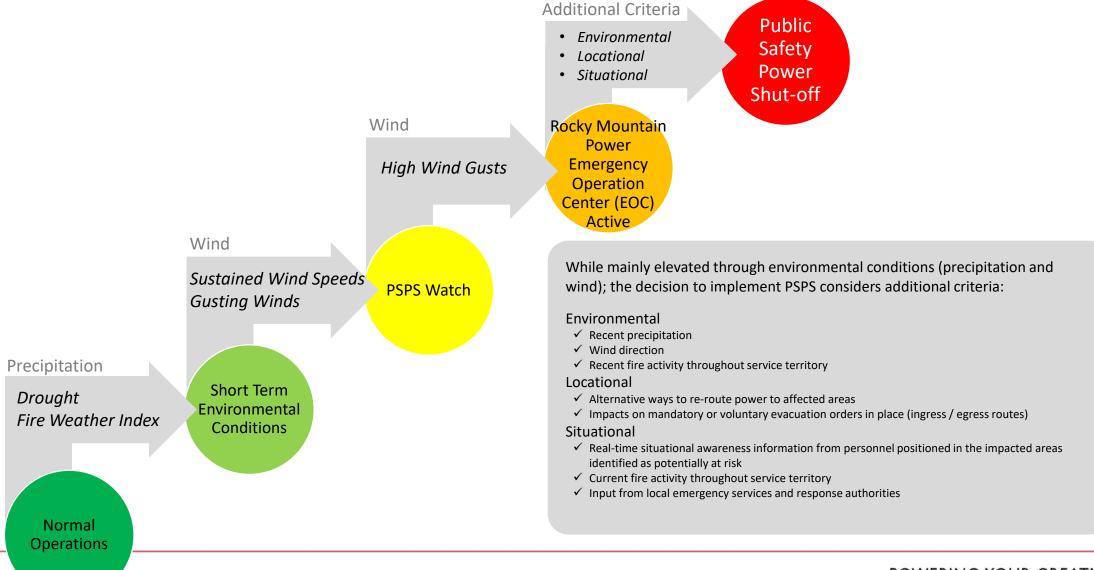


### Public Safety Power Shut-off Factors

### We monitor a range of factors before triggering a Public Safety Power Shutoff:



### Public Safety Power Shut-off Criteria



### Public Safety Power Shutoff Notification

• 72 - 48 Hours, Candidate PSPS: Forecast received. Contact community leaders, emergency management, state regulatory authority, media, social media, customers (according to chosen method).

• 24 Hours, Candidate PSPS: Monitor and continue to communicate to community leaders, emergency management and customers. All customers receive an outbound call in addition to other methods of notification. All social media platforms updated including website. Begin personal contact of identified life support customers.

• 2 Hours, Imminent PSPS: Two-hour imminent alert outbound calls placed to all customers. List of uncontacted life support customers is provided to RMP's incident commander. All social media platforms updated including website. Community leaders, emergency management, the media, and community based organizations are updated.

• **1 Hour, Imminent PSPS:** One-hour imminent alert outbound calls placed to all customers. All social media platforms updated including website. Community leaders, emergency management and the media are updated.

• Event Begins: Outbound calls are placed to all customers. All social media platforms updated including website. Community leaders, emergency management and the media are updated.

### Public Safety Power Shutoff Process

#### What should community expect?

- Advance warning whenever possible
- Continued updates to keep community impacted informed before during and after
- Communications via phone, text, radio and social media
- Safety inspections to confirm extreme conditions have passed
- Power restoration as soon as possible



### Public Safety Power Shutoff Notification

#### Cancellation

When forecasts change a Public Safety Power shutoff can be cancelled. In this case, we will:

- Call customers to let them know
- Contact community leaders via their Regional Business Manager
- Update our social media channels and notify the media

#### **Power restoration**

- Notify customers when restoration begins
- Notify community leaders via their Regional Business Manager
- Notify customers when complete

### What Customers Can Do To Prepare

# Safety begins at home. Take these steps to prepare:

- 1. Update your contact information with Rocky Mountain Power
- 2. Create a defensible space around home
- 3. Update emergency plan and supplies
- 4. Plan for any medical needs
- 5. Visit <u>rockymountainpower.net/wildfiresafety</u> for additional details and resources

