

TA1-103-E: PROJECT OVERVIEW

Project title: Wildfire Mitigation and Extreme Weather Resilience for Xcel Energy	Requested DOE funds: \$100 million
Prime recipient: Xcel Energy Services, Inc.	Proposed applicant cost share: (b) (4) ; company provided funds \$ (b) (4)

1. Project’s key idea:

- Expand and accelerate grid resiliency improvements, building on Xcel Energy planned investments of \$240M
- Achieve through a portfolio of projects focused on wildfire risk reduction, system hardening, and undergrounding projects
- Demonstrate resiliency solutions for communities focused on black, Indigenous, people of color (BIPOC) and disadvantaged populations

2. Proposed project goals:

- Increase grid resiliency against the increasing high impact, low probability (HILP) events experienced in our service territory
- Prove community grid resiliency solutions that increase preparedness for the company and the communities we serve

3. Project manager and key personnel information

Principal Investigator: Jason Mauch; Key personnel: Fletcher Johnson, Tom Stegge, Jae Lee, Craig Holt, Andre Gouin, Nick Martin, Ethan Trepp, Kelly Flenniken, Trisha Duncan, Brad Baldrige, Kathryn Valdez

TA1-103-E: Technical Summary

System Projects:

1. Undergrounding high-risk distribution circuits
2. Wood pole fire resistant coating
3. Fire spread modeling software
4. UAS for Wildfire safety settings (WSS) restoration response program for electric transmission and distribution lines and inspections
5. Non-auto reclosing system protection, non-expulsion fuses
6. Wind strength testing
7. Vegetation management: Hazard tree clearing program and Mainline Reclamation

Partner Projects:

1. Microgrids for BIPOC communities
2. LaCrosse Wisconsin water treatment plant resiliency project
3. Resilient building demonstration with World Resource Institute and Bus to Building project
4. EV charging management in high fire risk conditions with WeaveGrid



WORLD
RESOURCES
INSTITUTE



TA1-103-E: Impact and Support

Impact

PSCo and SPS service territories showing wildfire risk and DAC community locations.

Partner Resiliency Projects

- Electric Driver Wildfire Alert System in PSCo
- Electric School Bus as Resiliency Asset demonstration at community center

Impact

NSP-MN and NSP-WI service territories showing wildfire risk and DAC community locations.

Partner Resiliency Projects

- Resiliency Hub at Sabathani Community Center, Minneapolis MN
- Resiliency Hub at Minneapolis American Indian Center, Minneapolis MN
- Resiliency Hub at Minneapolis Public School Buildings, Minneapolis MN
- LaCrosse WI Water Treatment Plant Resiliency System demonstration

Letters of Support

Counties with letters of support received from township, city, and/or county including:

PSCo Territory

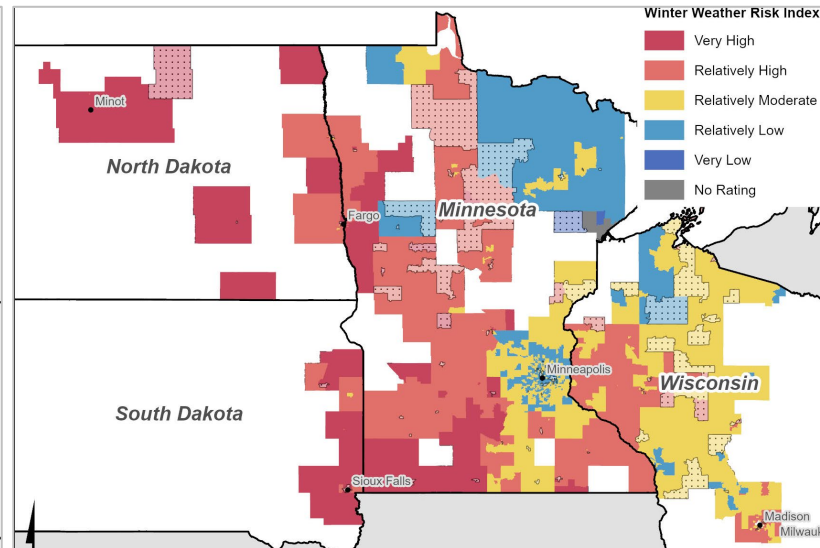
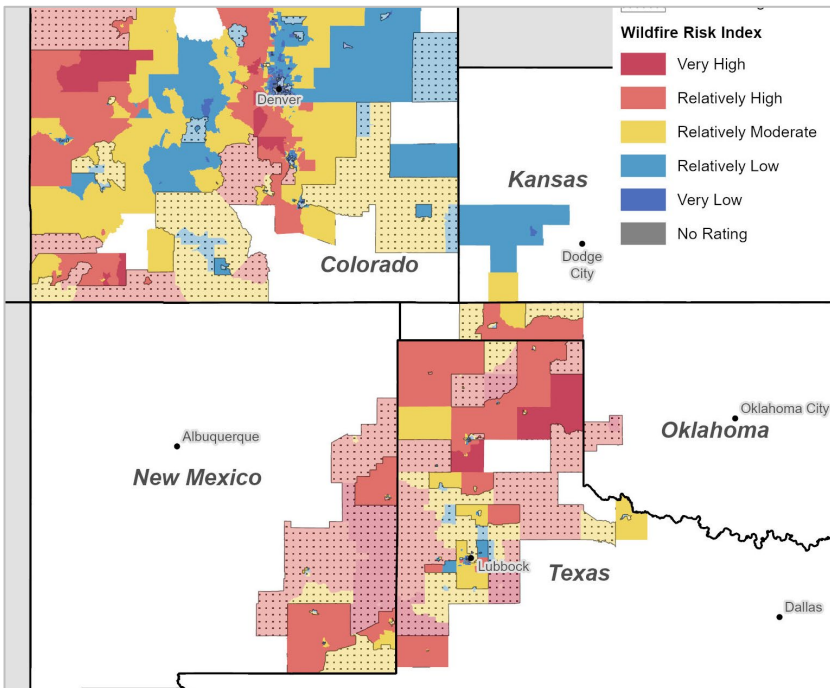
- Alma Township, CO
- Blue River township CO
- Breckenridge CO
- City of Leadville CO
- City of Black Hawk CO
- Clear Creek County CO
- Eagle County CO

Evergreen CO

- Frisco township CO
- Hayden CO
- Idaho Springs CO
- Jefferson County CO
- Lake County CO
- Meeker Township CO
- Minturn CO
- Park County CO
- Red Cliff Township CO

Silverthorne CO

- Summit County CO
- SPS Territory**
- Eddy County, NM
- Amarillo, TX
- Borger Township, TX
- Dumas Township, TX
- NSP Territory**
- Sabathani Community Center, MN



These maps illustrate Xcel Energy's project work areas and risks from wildfire and winter weather, indicate DACs that would benefit from the work and the significant support for their pursuit from communities

