

DEPLOYING MICROGRIDS TO MITIGATE WILDFIRE RISK

Tim Hade
Scale Microgrid Solutions, Inc.



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CONFERENCE

CALIFORNIA'S FIRE THREAT PROFILE IS NOT SUSTAINABLE

2017: The Deadliest and Most Destructive Wildfire Season on Record

- 47 lives lost
- 1,381,405 acres burned
- 9,470 homes and businesses destroyed
- \$13.2B insured losses

2018: The Deadliest and Most Destructive Wildfire Season on Record

- 104 lives lost
- 1,893,913 acres burned
- 19,000+ homes and businesses destroyed
- \$12.4B+ insured losses



CALIFORNIA'S STATUS QUO ELECTRIC INFRASTRUCTURE IS A BIG PART OF THE PROBLEM

- 250,000+ miles of overhead power lines
- 2,014 ignition events between 2014 – 2017 (~1.5 fires/day)
- 90%+ ignition events occurred on distribution networks
- 11M residents live or work in High Threat Fire Districts
- Utilities face unprecedented financial challenges



CALIFORNIA MUST DRASTICALLY INCREASE PUBLIC SAFETY POWER SHUTOFFS (PSPS)

- IOUs submitted Wildfire Mitigation Plans pursuant to SB901
- Some areas of CA could experience 15+ PSPS events/year
- Average duration of PSPS events 2-5 days in some areas
- Huge economic and life-safety concerns surrounding PSPS
- No serious discussion of microgrids/DERs as solution
- Feedback: too slow, too expensive, not ready for prime time



CALIFORNIA NEEDS MICROGRIDS THAT CAN BE DEPLOYED QUICKLY & COST-EFFECTIVELY



QUESTIONS???



TWITTER: @TIMOTHYHADE

EMAIL: INFO@SCALEMICROGRIDSOLUTIONS.COM