

**DOCKETED**

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**On Wildfire Assessing and Preparing for Risks under Climate Change**

*Additional submitted attachment is included below.*

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**From:** Michael Germeraad <mgermeraad@bayareametro.gov>  
**Sent:** Tuesday, November 6, 2018 10:25 AM  
**To:** Energy - Docket Optical System  
**Subject:** In Reference to 19-ERDD-01 Wildfire: Assessing and Preparing for Risks under Climate Change

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Dear CEC,

I'm very excited to see this research at the state and think the proposal looks great!

A few comments:

- We are in desperate need of long-term hazard maps similar to other hazards that allow us to quantify risk to assets. I work with the nine-counties and 101 cities in the San Francisco Bay Area and support local governments with hazard mitigation and climate adaptation planning and policy. For other hazards like flooding and earthquake we have imperfect, but useful probabilistic hazard layers (100-year flood, 2% shaking level in 50year, etc.) that allow us to quantify risk and develop cost benefit. Specifically what would be helpful is:
  - A **probabilistic** fire hazard layer that can be overlaid with assets to calculate risk.
  - A methodology for **scenario** fires to characterize risk from a specific fire. Our jurisdictions use past fire perimeters for scenarios, but can this new effort propose anything better? << it's okay if the answer is no!
- I'm not an energy expert but I do understand the correlation between the conditions that cause electric system ignitions and large, fast moving fires.
  - Can you provide research that studies that looks at the relationship between ignition source and fire size/damage.
  - Can you quantify the risk/liability/annualized damage of current electric system in destroyed ecosystems and community assets?
    - Can this annualized risk be applied to the cost of providing energy under the current system and compared against 21<sup>st</sup> century distributed energy solutions?
- The fire maps should strive to provide 100% coverage. Many fire maps have "unmapped" *urban* areas. Challenge the new models to do their best to consider conditions (slope, other attributes?) that contribute to the WUI risk of communities.
- All of these great new maps should have GREAT meta data that is described in generic terms that a local city planner can understand. Similarly, any companion documents on how to use these resources to conduct vulnerability assessments is always welcomed.

Is there a way I can sign up to stay informed of progress?

Also, if it's helpful, we have a recently released white paper on wildfire planning efforts in the Bay Area <http://resilience.abag.ca.gov/wildfires/>

Best,  
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