



Item 13: Applications of Open Data to Support Climate Resilience in California's Electricity Sector – GFO-24-306

October 8, 2025 Business Meeting

Aryana Sherzai, Energy Transition Specialist
Energy Research and Development Division
Sustainability and Resilience Branch



EPIC Research Opportunity

- Support electricity sector resilience by advancing:
 - Near-term wildfire forecasting
 - Planning tools to support utilities' mid- and long-term wildfire risk management
 - New visualizations on Cal-Adapt: Data Explorer
- Propose funding four projects ~ \$5.4 million



Benefits to Californians

- Reduced health and safety risks associated with electricity service disruptions
- Reduced financial impacts of post-disaster recovery and service disruptions
- Avoided environmental impacts of climate change
- Equity-centered functions of key climate planning tools



Lawrence Livermore National Security, LLC

Project Focus: Improve near-term wildfire predictions and risk assessments leveraging AI advances

Benefits:

- Improved weather data, fuel moisture data, active fire predictions, and fire risk predictions
- Timely and precise decisions regarding fire prevention actions

Funding Amount: \$800,000



Source: [CalFire](#)



Spatial Informatics Group, LLC

Project Focus: Expand and enhance PyreCast, an open-source EPIC-funded wildfire forecasting platform

Benefits:

- Improved spatial and temporal accuracy of wildfire spread predictions
- Faster, more informed decisions during wildfire events by IOUs and emergency responders

Funding Amount: \$1,000,000



Source: [Pyreicast](#)



University of California, Los Angeles

Project Focus: Develop climate-informed wildfire planning tool that quantifies mid- and long-term wildfire risk to and from utility infrastructure

Benefits:

- Accessible EPIC-funded data portraying long-term wildfire scenarios
- Improved strategic plans for grid expansion and wildfire mitigation

Funding Amount: \$800,000



Source: [CC BY-SA](#)



Eagle Rock Analytics, Inc.

Project Focus: Develop easy-to-use tools on the updated Cal-Adapt: Data Explorer platform

Benefits:

- Publicly accessible, user-friendly high-resolution climate projections and quality-controlled historical weather data
- Better-informed resilience and adaptation planning
- AI/ML-ready platform

Funding Amount: \$2,800,000



Source: [Cal-Adapt: Data Explorer](#)



Staff Recommendation

- Adopt staff's recommendation that the proposed agreements are exempt from CEQA
- Approve four agreements for a total funding of \$5,400,000