

DOCKETED

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Item 9: Research to Support a Climate Resilient Transition to a Clean Electricity System (GFO-21-302)

June 8, 2022 Business Meeting

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Energy Generation Research Office



Benefits to Californians



- **Improve reliability and reduce costs** by supporting climate-resilient electricity system modeling and planning.
- **Provide public access** to data portraying climate change and its implications for zero-carbon generation.



Funding Allocation

Agreement	Recipient	CEC Funds
EPC-21-037: Climate-related changes to availability and distribution	Eagle Rock Analytics	\$900,000
EPC-21-038: Cal-Adapt enhancements	Eagle Rock Analytics	\$750,000
EPC-21-041: Assessing and improving climate resilience of electricity system in transition	Energy & Environmental Economics, Inc. (E3)	\$1,950,000
Total Funding Requested:		\$3,600,000



Eagle Rock Analytics



Project Title: Climate-Informed Generation Capacity Modeling to Support a Climate Resilient Transition to a Clean Electricity System

Objectives:

- Generate hourly resource availability projections for solar, wind, and hydroelectric generation.
- Develop data products that harmonize with current planning and regulatory practice.



Eagle Rock Analytics

Project Title: Climate-Informed Energy Sector Adaptation Planning Web Application via Cal-Adapt

Objectives:

- Provide climate visualizations and tools to support climate-informed decisions.
- Rebuild Cal-Adapt architecture to incorporate increasing substantial climate data.





c. Energy & Environmental Economics Inc.



Project Title: Climate-Informed Load Forecasting & Electric Grid Modeling to Support a Climate Resilient Transition to Zero-Carbon

Objectives:

- Enhance load forecasting and capacity expansion models and datasets to support analysis of climate impacts.
- Identify climate-related events that stress the grid.



Staff Recommendation

- Approve grant agreements
- Adopt staff's determination that these items are exempt from CEQA