

## California's Fourth Climate Change Assessment: Energy Research Portfolio

<i>Research Area</i>	<i>Project Title</i>	<i>Principal Investigator(s)</i>	<i>Institution</i>
Scenario development	Developing Enhanced Socioeconomic and Land-Use Scenarios	Benjamin Sleeter (USGS), Ethan Sharygin (CA Dep of Finance), David Stoms (Energy Commission)	
Scenario development	Weather-Related Scenarios for the Natural Gas System: California's Fourth Climate Change Assessment	Dan Cayan; LeRoy Westerling	UCSD, Scripps Institute; UC Merced
Probabilistic Forecasting	Improving Hydrological Snowpack Forecasting for Hydropower Generation Using Intelligent Information	Steven Glaser, Martha Conklin, Roger Bales	UCB and UC Merced
Probabilistic Forecasting	Probabilistic Seasonal and Decadal Forecasting for the Natural Gas System	Dan Cayan	UCSD, Scripps Institute
Probabilistic Forecasting	Probabilistic Seasonal and Decadal Forecasts for the Electricity System Using Linear Inverse Modeling	Owen Doherty	Eagle Rock Analytics
Extremes: Wildfire, Floods, Heat Islands	Modeling the Impact of Wildfires on California's Transmission and Distribution Grid	Larry Dale and Jeff Greenblatt	LBNL
Extremes: Wildfire, Floods, Heat Islands	Monitoring the Urban Heat Island Effect and the Efficacy of Future Countermeasures	Ronnen Levinson, Haley Gilbert	LBNL
Extremes: Wildfire, Floods, Heat Islands	Distributed Evaluation & Assessment Program for California's Transportation Fuel Sector (DEAP-TFS): Identifying Strategies for Reducing Vulnerability to Improve Resilience for Extreme Weather	John Radke, Greg Biging, Karlene Roberts	UCB
Regional vulnerability and resilience	Climate Change in Los Angeles County: Grid Vulnerability to Extreme Heat	Stephanie Pincetl; Alex Hall; Mikhail Chester	UCLA; ASU
Regional vulnerability and resilience	High Resolution Measurement of Levee Subsidence Related to Natural Gas Infrastructure in the Sacramento-San Joaquin Delta	Benjamin Brooks	USGS
Regional vulnerability and resilience	The Adaption Blind Spot-Electrical Grid Teleconnected and Cascading Climate Change Impacts on Community Lifelines in Los Angeles	Juliette Finzi Hart; Susanne Moser	Thalassa Research & Consulting; Moser Research & Consulting
Regional vulnerability and resilience	A Multi-Hazard Investigation of Climate Vulnerability of the Natural Gas Energy System in Southern California	Amir AghaKouchak	UC Irvine
Regional vulnerability and resilience	Investigating Climate-change-induced Vulnerability of the Northern California Natural Gas Energy System and Identifying Resilience Options	Yihsu Chen	UC Santa Cruz
Regional vulnerability and resilience	Potential Impacts and Adaptation Options for the Electricity System from Sea Level Rise in San Diego	Andrew Petrow	ICF
Regional vulnerability and resilience	Investigate Climate Vulnerability of the Natural Gas System and Identify Resilience Options in San Diego	Andrew Petrow	ICF
Making results actionable	Risk Modeling and Cognitive Science Characterization of Barriers to Climate Change Adaptation in California's Power Sector	Dan Kammen; Teenie Matlock	UCB; UCM
Making results actionable	Visualizing Climate-Related Risks to the Electricity System Using Cal-Adapt	Maggi Kelly, Nancy Thomas	UCB, Geospatial Innovations Facility
Making results actionable	Visualizing Climate-Related Risks to the Natural Gas System Using Cal-Adapt		

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