CALIFORNIA STRATEGIC GROWTH COUNCIL

CLIMATE CHANGE RESEARCH PROGRAM

List of Round 3 Grant Awards (July 2020)

Award	Title	Description	Institution/PI	Partners
$990,350 33 months	**Smoke, Air, Fire, Energy (SAFE) in Rural California: Energy & Air Quality Infrastructure for Climate-Smart Communities**	This research will advance rural resilience, specifically in Tribal communities, but with replicable results for other rural communities. The project takes an innovative approach by including Blue Lake Rancheria and the Karuk Tribe as fully funded research leads, modeling an example of co-production of research. The project's overall goal is to identify sustainable pathways for climate-smart rural California communities, by developing air quality and energy infrastructure with community members, and incorporating social dimensions of change to ensure uptake and applicability.	Humboldt State University *Peter Alstone*	Blue Lake Rancheria; Karuk Tribe
$990,350 32 months	**Resilient Restoration: Advancing Ecological, Cultural, & Community Resilience with Tribal Nations in Southern California**	This project promotes tribal resilience, and the scope of the project reflects a priority shared by 18 Southern California Native American Tribes that will be working together through this grant, and with researchers, to protect and conserve culturally significant species. The research will advance understanding of the impacts of climate change on a suite of native plant species that serve as the foundation of southern California's biodiversity and are critical to Tribal culture, health, and well-being. This project also implements a scalable future, incorporating planning for Tribal-led pilot projects as well as capacity building and support to Tribes to identify and access future funding.	University of California, Riverside *Helen Regan*	Intertribal Working Group; Climate Science Alliance; SDSU
$722,777 24 months	**Local Development under Climate Change: Evaluating Trade-offs between Carbon Emissions, Water Sustainability, & Affordable Housing**	This research responds directly to Central Coast stakeholder needs identified under a SGC's Round 1 award. The project involves collaboration by city, county, and other stakeholders in five Central Coast counties to assess trade-offs between carbon emissions from land use change, water shortage availability, affordable housing with a focus on disadvantaged communities, preservation of agricultural lands, and preservation of critical habitats and corridors for species threatened by climate change impacts. This project fills a gap in research to inform climate-smart land use planning that also integrates affordable housing and other concerns. The project team will obtain input to create locally tailored development models with assessments of impacts and tradeoffs.	University of California, Santa Cruz *Ruth Langridge*	USGS; UCD; UCB; San Luis Obispo City; Central Coast Climate Collaborative; Watsonville City; Salinas Valley Basin GSA
$445,088 24 months	**Micro-Climate Zones: Designing Effective Outdoor Cooling Interventions**	This project will develop recommendations to design cost-effective solutions for heat mitigation at micro-scales for communities, through analysis of stakeholder-engaged data on the relationship between the built environment and temperature. The project also directly builds capacity with residents of disadvantaged communities, ultimately resulting in tangible benefits. The project's goal is to empower disadvantaged communities to implement cooling solutions for bus stops and other streetscapes to facilitate the increased use of transit and active transportation, in order to reduce greenhouse gas emissions and local pollution while creating climate-resilient neighborhoods.	University of California, Los Angeles *V. Kelly Turner*	ASU; Kounkuey Design; LGC; Watts Rising; Pacoima Beautiful; Ontario; SoCalCOG; Climate Resolve
$732,859 32 months	**Incentivizing Climate-Smart Farmland Transitions in the San Joaquin Valley**	This project will support San Joaquin Valley stakeholders in developing beneficial strategies for managing significant land use transitions anticipated from implementation of the Sustainable Groundwater Management Act (SGMA). The research will fill gaps in knowledge to support a coordinated approach and prevent ad hoc land fallowing, which can aggravate air pollution and health impacts for vulnerable populations and accelerate the loss of soil carbon. The project will provide information on the benefits and costs of different land management options, estimates of funding needs and potential funding sources for different land uses, and an understanding of how institutions and policies can be structured to facilitate adoption of beneficial approaches.	Public Policy Institute of California *Ellen Hanak*	Central Valley Community Foundation; Fresno State University; UCD; UCM
$868,528 36 months	**Toward resilient California communities: A statewide & case-based assessment of solar+ storage potential at schools & community centers**	This research will provide a comprehensive assessment of opportunities to achieve greenhouse gas reductions and resilience benefits through deployment of solar-plus-storage at schools and community facilities across California, informed by community engagement around replicable on-the-ground strategies to site and design projects that reflect community needs. The other research leads, Asian Pacific Environmental Network (APEN) and Communities for a Better Environment (CBE), will work with under-served populations in Richmond and Wilmington to identify specific resilient school and community center sites, develop community engagement strategies, and incorporate community-specific needs and priorities into project designs.	Physicians, Scientists, & Engineers for Healthy Energy *Elena Krieger*	Communities for a Better Environment; Asian Pacific Environmental Network