

List of completed and upcoming products and associated tasks due from 11/1/2019 to 12/31/2020.

Task ID	Product Name	Product Description	Due Date
Task 5. Advancing Wildfire Science of Tree Mortality - Phase 1	State of Wildfire Science Report	<ul style="list-style-type: none"> ○ A description of the state of wildfire science and its application for forecasting fire risk in California; and ○ A summary of research objectives and outcomes of Task 5 and how they relate to the development of the next generation of wildfire risk models. 	01/17/2020
Task 6. Near-term Risk Forecast Model Development - Phase 1	Near-Term Risk Forecast Baseline Needs Assessment Summary	Summary memo of what is needed to develop Near-term forecast model and how the model can be used by IOUs and Stakeholders for tactical planning.	01/17/2020
Task 6. Near-term Risk Forecast Model Development - Phase 1	Near-Term Risk Forecast Data Archive	<p>Develop a <i>Near-term Risk Forecast Data Archive</i> distribute project outputs to IOUs and collect IOU electric asset and analysis information. The web-based platform will include the following features:</p> <ul style="list-style-type: none"> ○ A feature to upload GIS data, source code, outputs and analysis; ○ A feature for IOUs to upload pertinent data and view Task outputs; and ○ A feature for separating proprietary and public domain data. 	01/17/2020
Task 7. Next-generation of Long-term Fire Risk Projection Models - Phase 1	Long-term Risk Projections Baseline Needs Assessment Summary	Summary memo of what is needed to develop Long-term Projection model and how the model can be used by IOUs and Stakeholders for planning.	01/17/2020
Task 3. Optimal Configuration of Weather Stations - Phase 1	Site Recommendation Methodology Framework and Baseline Needs Assessment Summary	<p>Summary report on methodology that will be used for identifying the optimal location/placement of weather stations across the state and what is needed to implement the methodology. The report will minimally include:</p> <ul style="list-style-type: none"> ○ Relevant Information or data assembly needed (includes desktop research and meetings with IOUs); ○ Process for evaluating information; ○ Description of the evaluation outcomes ○ Description of considerations to identify priorities; 	04/03/2020

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		<ul style="list-style-type: none"> ○ Analysis of the existing weather station(s) and utility-planned network(s); ○ Analysis of expected budget for weather stations at two-year and ten-year cycle; and ○ Assessment of the data gaps and needs. 	
Task 3. Optimal Configuration of Weather Stations - Phase 1	Weather Station Network Dataset	<p>The dataset will minimally include:</p> <ul style="list-style-type: none"> ○ Atmospheric analyses and surface data; ○ Data on fuels; ○ Topography; ○ Access (administrative boundaries and property rights); ○ Electric utility assets at risk (public data from Cal-Adapt and information shared by the utilities); ○ Existing weather/telecom/detection towers; and ○ Weather stations. 	04/03/2020
Task 6. Near-term Risk Forecast Model Development - Phase 1	Near-Term Risk Forecast Dataset	<p>A dataset that minimally includes:</p> <ul style="list-style-type: none"> ○ Datasets for fuels, topography and weather across the State; ○ Dataset for a sample of major historical fires including ignition location, fire progression maps and downscaled weather conditions; ○ Maps of electricity assets and damage to electricity assets from wildfire that are publicly accessible; ○ A dataset of building footprints; and ○ Source code and guidance documentation for existing open-source risk forecast models GRIDFIRE and ELMFIRE (or similar models approved by the CAM) 	04/03/2020
Task 8. User Engagement Workshops - Phase 1	User Engagement Workshops; Stakeholder Workshops, IOU meetings - Phase I	Meeting summary of IOU/stakeholder engagements	05/28/2020

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Task 6. Near-term Risk Forecast Model Development - Phase 1	Near-Term Risk Forecast Modelling Framework Summary	Summary report that describes all components of the Near-term Forecast Model(s). Includes diagrams showing inputs, processes and outputs.	06/26/2020
Task 7. Next-generation of Long-term Fire Risk Projection Models - Phase 1	Long-term Risk Projections Modeling Framework Summary	Summary report that describes all components of the Long-term Projection Model(s). Includes diagrams showing inputs, processes and outputs.	06/26/2020
Task 7. Next-generation of Long-term Fire Risk Projection Models - Phase 1	Long-term Risk Projections Dataset	A dataset that minimally includes: <ul style="list-style-type: none"> ○ A database of major historical fires including ignition location, fire progression maps and downscaled weather conditions; and ○ A dataset of electricity assets, building footprints and climate projections. 	06/26/2020
Task 8. User Engagement Workshops - Phase 1	User Needs Assessment Summary	A report that summarized the actionable insights from the IOU and Stakeholder engagements.	06/26/2020
Task 4. Extreme Weather Historical Analysis - Phase 1	Extreme Weather Historical Pre-Analysis Spatial Dataset	Historical weather data for major California weather and fire events. Analysis will include the various fuel types found in the three IOUs, e.g. chaparral, coastal forest, and Sierra conifer forest. Emphasis to be placed on wildfires that have damaged electricity system to find regional patterns.	09/25/2020
Task 13. Technology/Knowledge Transfer Activities	Draft and Final Technology/Knowledge Plan	<ul style="list-style-type: none"> ○ An explanation of how the knowledge gained from the project will be made available to the public, including the targeted market sector and potential outreach to end users, utilities, regulatory agencies, and others. ○ A description of the intended use(s) for and users of the project results. ○ Published documents, including date, title, and periodical name. ○ Copies of documents, fact sheets, journal articles, press releases, and other documents prepared for public dissemination. These documents must include the Legal Notice required in the terms 	Completed

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		<p>and conditions. Indicate where and when the documents were disseminated.</p> <ul style="list-style-type: none"> ○ A discussion of policy development. State if project has been or will be cited in government policy publications or used to inform regulatory bodies. ○ The number of website downloads or public requests for project results. 	
Task 3. Optimal Configuration of Weather Stations - Phase 1	Upper-air Profiler Test Plan	Develop an Upper-air Profiler Test Plan including, but not limited to: Objectives of the test; Site location; and Procedures for sharing data collected.	Completed
Task 2. Protect Team and Product Management Plan	Final Product Management Plan	<ul style="list-style-type: none"> ○ PMP will cover all data, modeling, and other related products under this Scope of Work, including but not limited to all models, data archives and data sets. ○ PMP will include a description of all data, modeling, and other related products under this Scope of Work, and how each product will be shared with the Energy Commission, made available to stakeholders and the public, and archived. ○ PMP will include a description of how all products under this Agreement will be made available to the public unless application of an exception is justified under the Public Records Act (Government Code section 6250 et seq.). ○ A description of how all code developed under this Agreement shall be open source, broadly available for public reuse, published in state repository (code.ca.gov), and provided with the applicable product ○ When possible, all code developed under this Agreement shall be amendable to forming the basis for an operational tool in Cal-Adapt including sufficient documentation and knowledge transfer. ○ Where data produced by third parties are available and accessible and are not possible to store in the relevant product provided under this Scope of Work, guidance on how to access the data will be included in the PMP. 	Completed

