



September 23, 2021

The Honorable Chris Holden
Chair, Assembly Committee on Utilities and Energy
State Capitol Building
Sacramento, CA 95814

Dear Chair Holden:

We write to provide you with the seventh monthly report on actions our respective organizations are taking ahead of this summer in response to the August 2020 extreme heat wave and rotating outages. The actions summarized below are those the California Public Utilities Commission (CPUC), California Energy Commission (CEC) and California Independent System Operator (CAISO) have taken since our last monthly report submitted to you on August 16, 2021.

We thank you, again, for the opportunity to provide this report. If you or committee staff have any questions, please do not hesitate to contact any of our respective government affairs representatives: Grant Mack (Grant.Mack@cpuc.ca.gov), Anna Ferrera (Anna.Ferrera@energy.ca.gov), or Quentin Foster (QFoster@caiso.com).

Sincerely,

Marybel Batjer
President, California Public Utilities Commission

David Hochschild
Chair, California Energy Commission

Elliot Mainzer
President & Chief Executive Officer, California Independent System Operator

Combined Energy Resource Planning & Procurement Actions September 2021

Responsible Entity	Actions	Milestone(s)	Status
CPUC	<p>Emergency Reliability Rulemaking (R.20-11-003). This proceeding was initiated to establish policies, processes, and rules to ensure reliable electric service in California in the event of an extreme weather event in 2021.</p> <ul style="list-style-type: none"> ▪ In a February 11, 2021, decision (D.21-02-028), the CPUC directed the state's three large investor-owned utilities (IOUs) to seek contracts for additional supply-side capacity. The IOUs filed Advice Letters seeking approval for approximately 564 MW by summer 2021. The CPUC approved those contracts on March 18. ▪ On March 25, 2021, the CPUC approved and directed (D.21-03-056) the IOUs to take multiple actions to avert the potential need for rotating outages in the summers of 2021 and 2022, including launching a new statewide Emergency Load Reduction Program (ELRP) pilot, modifying the IOUs' existing demand response and Critical Peak Pricing programs, funding a new statewide Flex Alert paid-media campaign, and authorizing additional capacity procurement to meet an increased planning reserve margin of 17.5 percent. The CPUC adopted clarifying guidance regarding the ELRP day-of trigger in a June 24th decision. ▪ On April 6th, the IOUs facilitated a public workshop with CCAs to discuss Critical Peak Pricing programs and alternative load shedding programs for Summer 2021. ▪ On June 14th, a ruling was issued allowing for a refresh of additional party proposals that could be adopted in time for summer 2022. Party opening and reply testimony were received on July 7th and 21st, respectively. 	<p>Approve IOU Advice Letters by mid-March 2021</p> <p>CPUC vote on proposed decision on March 25, 2021</p> <p>IOU procurement and program implementation</p> <p>Proposed decision on new proposals to ensure summer reliability in 2022 and 2023</p>	<p>Completed</p> <p>Completed</p> <p>In progress</p> <p>Expected Q4 2021</p>

	<ul style="list-style-type: none"> A new scoping ruling was released on August 10th focused on Summer 2022 and 2023 reliability needs to be considered in Phase 2 of this proceeding. On Aug. 11 and 16, respectively, an ALJ ruling issuing Party Proposal Guidance and ALJ ruling issuing Staff Concept Paper were issued seeking party proposals on strategies and approaches for ensuring summer readiness in 2022 and 2023. Party opening and reply testimony is due September 1st and 10th, respectively. A proposed decision is expected by October 2021. <p>More information on R.20-11-003 is available at: https://www.cpuc.ca.gov/summerreadiness/</p>		
CPUC	<p>Project Progress Tracking</p> <ul style="list-style-type: none"> In November 2020, the CPUC prepared an analysis and slide deck on new resources in development across multiple proceedings, available at: https://www.cpuc.ca.gov/WorkArea/DownloadAsset.aspx?id=6442466860 The CPUC is tracking progress on generation and battery storage projects that are currently under construction in California to ensure there are no CPUC-related regulatory barriers that would prevent them from being completed by their targeted online dates. Whenever a delay or potential delay is identified, the CPUC is working with the Governor's office, other agencies, load serving entities, project developers, and/or local officials to help resolve it as soon as possible. Since May 2021, CPUC intervention has helped ~210 MW Net Qualifying Capacity (NQC) of previously delayed projects to get back on track for their expected online dates of August 1, 2021. Similarly, CPUC and CEC efforts have helped ~170 MW NQC of at-risk projects to remain on track for August 1, 2021. On August 17, 2021, the CPUC issued a ruling sharing an aggregation of the data collected from Integrated Resource Plans 	<p>Issue ruling on Integrated Resource Plan (IRP) Load Serving Entity (LSE) data aggregation by August 2021</p> <p>Issue staff report on backstop procurement by August 2021</p>	<p>Completed</p> <p>Completed</p>

	<p>filed by load-serving entities (LSEs) in September 2020. The data includes information on existing, development, and planned resources. The ruling and associated materials are located under Proposed Preferred System Plan and Portfolios for 2022-23 Transmission Planning Process at the following link: 2019-2020 IRP Events and Materials (ca.gov)</p> <ul style="list-style-type: none"> ▪ The CPUC is also tracking progress against the 3,300 MW NQC (Net Qualifying Capacity) procurement ordered in D.19-11-016. On February 1, 2021, LSEs that elected to self-provide their procurement obligation submitted reports to the CPUC on the status of their projects. CPUC staff quality controlled and analyzed this data. In these updates, LSEs confidentially provided detailed information regarding the cause of any delays and plans for remediation. The CPUC used the data from the February 2021 filings to determine whether any of the projects under D.19-11-016 have suffered delays or failure that necessitate the need for backstop procurement. CPUC staff issued a report on the February 1st compliance filings on August 23, 2021. The report is available on the CPUC's website at the following link: https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/energy-division/documents/integrated-resource-plan-and-long-term-procurement-plan-irp-ltpp/ed staff review of feb2021 data in compliance with d1911 016.pdf ▪ On September 1, 2021, the CPUC received data from LSEs on their existing and in-development resources under contract. This data filings are intended to update and complement the 2020 IRP data filings, but they do not represent a full IRP filing and do not include planned resources. This data is also in compliance with D.19-11-016, and Staff will use to assess whether Tranche 1 projects have come online by the required date. 		
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	<ul style="list-style-type: none"> The CPUC is also coordinating with the Governor's Office of Business and Economic Development (GO-Biz), CEC, and CAISO to develop a "Project Development Tracking Task Force," whose goal will be to support new generation and storage projects expected to come online by summers 2022 and 2023 but which may be experiencing delays. Whenever a delay or potential delay is identified, the Task Force will work together and with project developers and/or local officials to help resolve the issue as soon as possible before it significantly impacts the project timeline. 		
CPUC	<p>Improve Load Scheduling Accuracy – The CPUC is exploring technical solutions that may be needed to allow its jurisdictional IOUs to provide customer usage data to community choice aggregators (CCAs) and energy service providers (ESPs) more frequently to improve load scheduling accuracy.</p> <p>Based on initial conversations with IOUs and CCAs, it appears that more timely access to customer usage data may not be necessary for day-ahead load forecasting in the CAISO markets. The CPUC is still gathering information from load-scheduling coordinators who work with CCAs to better understand whether and how they use this data.</p>	Ongoing conversations with IOUs, CCAs, ESPs, scheduling coordinators, and the CAISO	In progress
CPUC	<p>Replacement Resources for Diablo Canyon – In 2020, the CPUC directed all CPUC-jurisdictional LSEs to submit IRPs that include procurement of their share of replacement power for the retirement of the Diablo Canyon Nuclear Power Plant. On June 24, 2021, the CPUC ordered its jurisdictional LSEs to procure 11,500 MW NQC of new resources to address mid-term reliability needs for years 2023-2026 (D.21-06-035). The 11,500 MW NQC includes 2,500 MW of resources that will provide both energy and capacity on a daily basis during the hours of highest need to replace Diablo Canyon.</p>	<p>Issue ruling</p> <p>Issue Proposed Decision (and Alternate Proposed Decision)</p> <p>Final Decision in June 2021</p>	Completed
CPUC	<p>Resource Adequacy (RA) Rulemaking (R.19-11-009) – The CPUC hosted several workshops in February 2021 on reliability proposals/topics including planning reserve margin, import rules, hybrid resource qualifying capacity</p>	Issue Proposed Decision in May 2021	Completed

	<p>rules, demand response qualifying capacity rules, changes to the RA penalty structure, and larger structural changes to the RA framework. On June 25, 2021, the CPUC adopted local capacity requirements for 2022-2024 and flexible capacity requirements for 2022 applicable to CPUC-jurisdictional LSEs, as well as other refinements to the RA program including expanding required availability hours for use limited resources. The availability window for use-limited resources now includes Saturdays in addition to weekdays and increases the number of availability hours per month from 40 to 100. The decision also adopted a point-based escalating penalty structure for system RA deficiencies in order to incent RA compliance. On July 15, 2021, the CPUC addressed issues related to the restructure of the RA program to focus planning efforts across all hours of the day, in an effort to resolve net load peak concerns. The proposed decision sets forth a process and schedule for further development of the restructure proposals which requires a minimum of five workshops over the next six months to develop the implementation details necessary for implementation in 2024.</p>	<p>Final Decision in June 2021</p> <p>Final Decision in July 2021</p> <p>Workshop Report due February 2022</p>	
CPUC	<p>Integrated Resource Planning (IRP) Procurement Framework – The CPUC hosted a workshop in December 2020 on a proposal regarding how the CPUC would order procurement to complement the procurement by LSEs in response to the planning track activities of IRP and various CPUC procurement programs. This proposed framework is intended to provide a conceptual foundation for all future procurement informed by the IRP process. The February 22, 2021, ruling on mid-term reliability referred to above sought feedback from stakeholders on “phase one” of the proposed framework, i.e., that relating to procurement in the current cycle of IRP. D.21-06-035 described above operationalizes some of the features of the framework.</p> <p>The development of the Preferred System Plan (PSP) later in 2021 presents the next opportunity within the IRP process for stakeholder engagement and procurement action by the CPUC.</p>	<p>Issue PSP ruling in August 2021</p> <p>Proposed decision on PSP</p>	<p>Completed</p> <p>Expected Q4 2021</p>

<p>CPUC, CAISO</p>	<p>Flex Alert public Awareness Campaign – Following approval of funding in the Emergency Reliability Rulemaking (R.20-11-003), the CPUC has been working with the CAISO and the selected vendor to refresh and strengthen the voluntary, consumer energy conservation program.</p> <ul style="list-style-type: none"> ▪ The campaign has launched in nearly all channels, including social, paid internet search, digital, outdoor, multicultural newspapers, radio and television. ▪ Advertisements are strategically placed to reach households throughout the state and stress the importance of conservation. Advertisements contain strategies – such as pre-cooling homes and businesses – to conserve energy and minimize discomfort. ▪ We are encouraging everyone to sign up for Flex Alert notifications at FlexAlert.org, which will send out alerts by text or email. ▪ A second contract is augmenting the first one to add additional resources and reach more Californians to conserve energy at critical moments. ▪ The CPUC is coordinating with the state's utilities and a non-profit data analytics provider, as well as the marketing contractor, to maximize the reach of the Flex Alert campaign through paid media. ▪ The CAISO launched a text function that allows consumers to get Flex Alerts via text, providing more convenience to the consumer and to potentially increase participation in conservation. ▪ The CAISO launched an API code that allows home automated thermostat companies to signal their customers when conservation is needed. This feature, which is now active, is expected to make it more convenient for consumers to participate in conservation efforts. ▪ The CAISO will soon be launching an improved Flex Alert registration system to increase visibility of conservation participation throughout the state. When a call is made for conservation, the system surveys registrants on their plans for participation and how others in their area are responding. 	<p>Mid-June - launch</p>	<p>In progress</p>
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	<ul style="list-style-type: none"> As of September 3rd 2021, the total social awareness campaign numbers were 86,900,523 impressions, 152,630 link clicks, 43,588,341 video plays. 		
CPUC, CEC, CAISO	<p>Capacity Procurement Mechanism (CPM) solicitation – Due to a combination of earlier-than-expected extreme heat throughout California and the West, diminished hydroelectric availability, and changes and uncertainties in the resource stack, the CPUC and CEC made a recommendation to the CAISO to leverage its backstop procurement authority for securing additional resources to help meet the anticipated demand during the summer months. The CAISO issued notices of CPM designations on July 9, July 13, July 23, August 3, August 12, August 17, August 30 and September 1. The designations are for 30-days, as provided under the tariff. Effective dates and megawatt totals are as follows:</p> <ul style="list-style-type: none"> July 9 – 473 MW July 10 – 70 MW July 12 – 64 MW July 22 – 16 MW August 1 – 30 MW August 2 – 195 MW August 10 – 73 MW August 11 – 350 MW September 1 – 421 MW September 10 – 3 MW 	On July 1, 2021, the CAISO issued a CPM solicitation notice requesting that providers willing to accept such designations notify the CAISO. The solicitation notice was re-issued on July 23 and August 23.	In progress
CAISO	<p>Additional Capacity During July Heatwave – In response to Governor Newsom signing an emergency proclamation on July 9, 2021, to free up additional energy capacity, the CAISO was able to secure an additional 475 MW to help meet demand amid the July 2021 heatwave and wildfires that were impacting transmission.</p>		Completed on July 10, 2021
CAISO	<p>Summer Loads and Resources Assessment – On May 12, the CAISO released its annual summer assessment evaluating the expected supply and demand, to help prepare for the hot weather months of June</p>		Completed on May 12, 2021

	<p>through September. This year's assessment projected the energy grid will have more capacity to meet demand in 2021 than it did in 2020, a critical element for averting rotating power outages, such as those that occurred last August. However, extreme weather events that extend across the West could still pose a problem for reliability during the later months of the summer.</p> <p>The CAISO held numerous briefings for interested parties, including a public stakeholder call on May 24, to discuss the findings and provide details about the CAISO's extensive summer readiness efforts.</p>		
CAISO	<p>Summer 2021 Readiness Leadership Roundtable – On April 15, the CAISO hosted a discussion with leaders from utilities and organizations with whom the CAISO has a direct operational relationship. The focus was to review the lessons learned from last summer's west-wide heat wave and rotating outages in California; to outline the work being done in response to the Final Root Cause Analysis; and to determine if there are additional individual or collective actions that can be taken to further support reliable operations this summer.</p> <p>Participants detailed steps they are taking to fortify grid operations since last summer. A common understanding of challenges and risks was established, as well as a commitment to deeper collaboration and coordination given the interconnected nature of the Western grid, particularly the interdependency of shared resources in tight supply conditions.</p>		Completed on April 15, 2021
CAISO	<p>Operational Exercise - On April 21, CAISO operations hosted a "tabletop exercise" with adjacent balancing authorities to test preparedness and communication procedures for a range of potential scenarios prior to the approaching summer weather. CAISO Operations has held additional meetings with APS, BPA, LADWP, NVE, SRP, and Tucson Electric Power to review current and forecasted conditions as well as emergency procedures.</p>		Completed on April 21, 2021

CAISO	<p>Market Enhancements for Summer 2021 Readiness – The CAISO Board of Governors and the Federal Energy Regulatory Commission (FERC) approved the first package of market enhancements to prepare for this upcoming summer. The package consisted of (1) incentives for suppliers to submit import schedules in the hour ahead scheduling process during tight market conditions; (2) reliability demand response resource dispatch and real-time pricing enhancements; (3) energy imbalance market coordination and resource sufficiency test modifications; (4) pricing enhancements during tight system conditions; and (5) targeted generation interconnection process improvements.</p>	<p>Approved by the CAISO Board of Governors March 24, 2021</p> <p>Approved by FERC May 25, 2021</p>	Completed on June 15, 2021
CAISO	<p>Load, export and wheeling priorities - The CAISO Board of Governors and FERC approved additional market enhancements that refine the prioritization of energy imports, exports, and transfers through the CAISO's balancing authority area. These changes consist of how exports cleared in the day-ahead residual commitment process are prioritized relative to CAISO load in the real-time market, enhancing requirements for designating non-resource adequacy capacity backing high priority export schedules, and market prioritization of wheel-through self-schedules.</p>	<p>Approved by the CAISO Board of Governors April 21, 2021</p> <p>Approved by FERC June 25, 2021</p>	Completed on August 4, 2021
CAISO	<p>Operating Procedure 4420 Modifications – The CAISO developed criteria that will allow the use of firm load to meet the North American Electric Reliability Corporation (NERC)-required contingency reserves and the dispatch of procured spinning reserve resources. This will allow the CAISO to minimize, if not avoid, the shedding of firm load during periods of resource deficiency. On May 27, these criteria were incorporated into the CAISO Operating Procedure 4420 Alerts, Warnings, and Emergencies.</p> <p>Note, on April 15, FERC approved modification to WECC- BAL-002-WECC-3 permanently approving modification to the Reliability Standard.</p>		Completed on May 27, 2021
CAISO, CEC	<p>Increased Coordination with Non-CPUC-jurisdictional Entities Regarding Additional Procurement – The CAISO has completed its outreach to understand the procurement positions of non-CPUC-jurisdictional entities</p>	Conducted outreach to non-CPUC	Completed July 1, 2021

	<p>and concerns, if any, for summer 2021. Thus far, non-CPUC jurisdictional entities surveyed have <i>de minimis</i> levels of solar penetration and largely rely on dispatchable renewables and hydro. Nonetheless, a limited number of non-CPUC local regulatory authorities have voluntarily increased their planning reserve margins or components thereof in preparation for summer.</p>	<p>jurisdictional entities</p>	
<p>CAISO</p>	<p>Further Analysis of Proxy Demand Response (PDR) and Reliability Demand Response Resource (RDRR) Performance – Starting this summer, the CAISO is implementing baseline adjustments through targeted controlled group methodology changes and changes to the adjustment factors used in the baseline calculations as permitted under the CAISO tariff. This process will allow for more accurate assessment of demand response load reduction during extreme events. Baseline improvement tracks instituted for the summer include:</p> <p>Track 1 – Exploring use of comparison/control group methodology</p> <ul style="list-style-type: none"> • Contracted with Recurve to conduct analysis on viability of accessing a control group by all Demand Response Providers and use of comparison methodology used in Department of Energy pilot • Began summer 2021 with evaluation for long-term solution <p>Track 2 – Established process/criteria for approved use of load adjustment factors outside of the min/max caps for summer 2021</p> <ul style="list-style-type: none"> • Based on current tariff authority, the CAISO is allowing use of alternate load adjustment factor cap ratio from May – October 2021 upon request and approval, prior to the beginning of the month requested 	<p>Track 1 – A draft report of the comparison methodologies analysis of 2020 DR participation performance was completed and submitted for CAISO and CEC review on September 7.</p> <p>Track 2 – Monitoring impact use of this option to the performance of resources responding to high heat events of those DRPs approved for its use has been ongoing. However, more data analysis is</p>	<p>In progress</p>

		needed and will be available upon receipt of settlement quality meter data from those events.	
CAISO	Credits Against Resource Adequacy Obligations – The CAISO continues to work with the CPUC, local regulatory authorities, and stakeholders to resolve issues around resources credited against resource adequacy requirements. On July 1, the CAISO and the three-large investor-owned utilities submitted documentation requested by the CPUC to consider an alternative counting methodology that could ultimately lead to reducing credits against the 2022 resource adequacy obligations. Any changes at the CPUC will need to be adopted by early September 2021.	On August 4, 2021 the CAISO Executive Appeals Committee met to discuss credits	In progress
CAISO	Resource Adequacy Market Rule Enhancements – The CAISO Board of Governors and FERC approved the first phase of the resource adequacy enhancements initiative that included enhancements for this summer. Phase 1 of the initiative consisted of three changes: 1) refinements to the existing planned outage process; 2) a minimum state of charge requirement for storage resources; and 3) backstop procurement authority for local energy sufficiency.	Approved by the CAISO Board of Governors March 24, 2021 Approved by FERC May 28, 2021	First phase completed June 2021
CAISO	Hybrid and Co-located Storage Resource Enhancement – On November 18, the CAISO Board of Governors approved the second phase of policies to support and enable the use of hybrid and co-located resources, which comprise a significant portion of the new capacity expected to be online by summer 2021. The Federal Energy Regulatory Commission approved the first phase of this effort, and the CAISO implemented these changes on December 1.	First phase completed on December 17, 2020	In progress

	The second phase of this effort will be implemented in Spring 2022. On December 17, the CAISO Board of Governors approved a methodology for calculating cost-based bids to which storage resources may be mitigated. This enhances the CAISO's ability to efficiently dispatch storage resources through its market.	Second phase to be implemented Spring 2022	
CAISO	Energy Storage Initiative – On April 28, the CAISO launched an initiative to explore market reforms to integrate large amounts of commercial-scale battery storage onto the grid over the next few years. The CAISO is projecting quadruple the amount of battery storage on its system from late last year to this summer. At the end of 2020, the CAISO had about 250 MW of storage resources -- primarily 4-hour batteries -- connected to the grid. The CAISO currently has about 1,500 MW on its system and expects to have a total of 2,000 MW by the end of September. This growth requires changes in the CAISO market to allow storage to be efficiently compensated and dispatched to meet grid reliability needs. The market changes would create a test case in the first such critical mass adoption of storage technology. Lastly, there is still a learning curve involved with newer technologies as shown by the recent battery module overheating which affected a newly energized 300-megawatt facility. ¹		In progress
CAISO	Reliability Must-run (RMR) Designation to Preserve Grid Reliability in 2021 – In addition to the 250 MW power plant approved as a Reliability Must Run (RMR) resource by the CAISO Board of Governors in December 2020, the Board voted on March 24 to designate a 34.5 MW power plant as a system RMR resource to help ensure the reliable operation of the transmission system in 2021 and prevent its imminent retirement. The CAISO's analysis concluded that the capacity provided by the RMR designation is necessary to maintain system-wide reliability needs and meet NERC and WECC operational standards, especially during the summer evenings.		Completed on March 24, 2021

¹ <https://www.eenews.net/articles/major-calif-battery-outage-highlights-energy-storage-risks/>

CAISO	<p>RMR Designation to Preserve Grid Reliability in 2022 – On September 23, the CAISO Board of Governors will vote on the conditional approval to extend the existing RMR contracts for 2022. Conditional approvals are sought each year due to the schedule of events each September. CAISO Management reviews preliminary resource adequacy showings and determines if RMR extensions remain necessary by September 30. If they remain necessary, letters for RMR extensions or terminations are sent to resource owners on October 1. CAISO Management will report back the results of the RMR contract extensions at the CAISO Board of Governors meeting in November.</p>		In progress
CEC	<p>CEC 2020 CA Electricity Demand Update – The CEC adopted the California Energy Demand 2020-2030 Forecast Update at its January 25 business meeting. This update to the previously adopted electricity demand forecast incorporates an additional year of historical data, more recent economic and demographic outlooks, and revised vehicle electrification, self-generation and battery storage forecasts. It also includes revised hourly and monthly peak electricity demand for the CAISO control area, as well as annual peak forecasts for 1-in-2, 1-in-5, 1-in-10 and 1-in-20 weather scenarios. Additionally, as part of the 2020 IEPR, staff conducted an exploratory analysis which found that 1-in-30 temperature conditions would lead to, on average, a 1.1 percent increase in peak load beyond what would be expected for a 1-in-20 temperature event.</p>	Volume III (demand forecast) of the 2020 IEPR was adopted at the March 17, 2021, CEC Business Meeting.	Completed
CEC	<p>2022 Stack Analysis – CEC has conducted an analysis of projected demand and supply for 2022 considering both an average weather year and an extreme weather year, like California experienced in 2020. The analysis considers ongoing drought conditions and potential impact on hydro generation resources. The draft analysis was presented at the August 11 Business Meeting and was approved at the September 8 Business Meeting. The results show that the state may need to access contingency measures during an extreme weather event of up to 4,350 MW. The CPUC will use the results of the analysis as they consider</p>	Results presented at September 8 Business Meeting	In Progress

	procurement levels in Phase 2 of its Emergency Reliability rulemaking (R.20-11-003).		
CEC	<p>Electric Program Investment Charge (EPIC) Reliability Research and Development – CEC has invested \$80M over the last six years to develop technologies to support demand flexibility. Of this amount, three new CEC awards (totaling \$6.2M) are anticipated to result in 28.7MW of flexible load shift this summer, 15MW from irrigation pumping. The following is the update on these three new awards:</p> <ul style="list-style-type: none"> • AgMonitor: Project executed and kicked-off on June 30th. AgMonitor has already signed up 9 farms and in discussion with two new ones. The project has 3MW of permanent load shifting occurring between the 4PM to 9PM peak load hours on the 9 farms. The project has already achieved its 2021 goal of 3MW by August and is working toward a full 7MW by 2022. • OhmConnect: Project executed and kicked-off on May 13th. Since June 1, OhmConnect has added more than 22,000 new users to their platform, with a projected load reduction of 13.7 MW. More than 48% of new users have connected a smart device (smart thermostat or smart plug) to the platform. The project goal is to achieve 25MW of projected load reduction from new users and additional automation by September 30, 2021. • Polaris Energy Services: Project executed and kicked off on May 12th. Polaris has enrolled 12MW of new curtailable load as of July 2021. Project goal is 25-40MW of peak load enrollment in DR programs and/or responding to TOU price signals by March 2024. 	Awarded Grants	Completed
CEC, CPUC	<p>Efficiency Improvements to the Natural Gas Powerplant Fleet – On December 2, the CEC, in collaboration with the CPUC, and in coordination with the CAISO, hosted a workshop to highlight to electricity stakeholders a range of options for incremental upgrades at existing natural gas power plants to increase their capacities to help address</p>	The CPUC's Expedited Procurement proceeding provided a	In progress

	<p>potential generation supply concerns for Summer 2021 and beyond. The workshop highlighted several projects that add up to 100 MW of additional capacity that could be available for Summer 2021. Since the workshop, the CPUC's Expedited Procurement proceeding provided a contracting opportunity for these resources, and over 100 MW of these resources have been approved by the CPUC to date.</p> <p>Between March and June 2021, CEC's STEP Division reviewed and approved petitions for 89 MW of incremental efficiency upgrades at six powerplants including 11.5 MW of equipment upgrades from battery energy storage systems expected to be available by the start of Summer 2021.</p> <p>At the June 25, 2021, Business Meeting, the CEC commissioners approved equipment upgrades to the final two powerplant projects. These two projects will be adding an additional 47 MW of power to the grid.</p> <p>As of August 2021, all 136 MW of incremental efficiency upgrades at eight powerplants have been completed by the project owners/operators and are available for dispatch as needed for grid reliability.</p> <p>The Russell City Energy Center was dispatched on three occasions (August 12, 13, and 16) producing 350 MW to the grid for net peak demand since coming back online.</p>	<p>contracting opportunity for these resources. Over 100 MW of these resources have been approved by the CPUC to date.</p> <p>The CEC has reviewed and approved multiple requests for software and equipment improvements for these projects, and additional requests are expected prior to summer.</p>	
CEC	<p>Governor's Emergency Proclamation and DOE 202 c Waiver Activities – In response, CEC launched the Temporary Emergency Generation Program to:</p> <ul style="list-style-type: none"> • Expedite post-certification petitions for changes in the design, operation, or performance requirements of existing facilities under the CEC's jurisdiction; process was adopted at the August 17, 2021 CEC Business Meeting, • License emergency and temporary power generators of 10 MW or more; expedited process was adopted at the August 17, 2021 CEC Business Meeting, and 	The CEC is reviewing two temporary power generator applications to come online by September 17 and is also reviewing	In progress

	<ul style="list-style-type: none"> License battery storage systems of 20 MW or more that can discharge for at least two hours, expedited process will be presented at the CEC September 8, 2021 Business Meeting. <p>CEC is reviewing five projects totaling 30-40 MWs to operate beyond nameplate capacity with state waivers. Current NQC testing is ongoing and staff are working with GE to evaluate if any additional capacity over what has already been reported is feasible.</p> <p>CEC is reviewing another three projects totaling 91 MWs to operate beyond nameplate capacity with a federal 202 c waiver.</p> <p>CEC has received two temporary power generator applications. Two units totaling 60 MWs at Roseville Energy Park in the city of Roseville and another two units totaling 60 MWs at the site of the decommissioned Greenleaf 1 Cogen facility in Sutter County (outside Yuba City). Applications are under review; CEC Executive Director decisions anticipated to be filed the week of September 6, 2021.</p>	multiple petitions to software and equipment upgrades that can come online by September 30.	
CEC, CPUC, CAISO	Summer 2021 Contingency Plan – The CEC, CPUC, and CAISO finalized the summer contingency plan, as recommended in the Root Cause Analysis. The plan describes the roles and responsibilities for each entity and describes coordination activities.	Plan was submitted to the Assembly Utilities & Energy Committee in early August 2021	Completed
CEC, CPUC, CAISO	Integrated Energy Policy Report Workshop – Summer 2021 Reliability – The CEC, CPUC, and CASIO hosted a joint IEPW workshop. The workshop provided an overview of CEC and CAISO analysis of summer reliability conditions and actions being taken to ensure reliability for Summer 2021. In addition to updates from CEC, CPUC, and CAISO, partnering entities, such as the California Department of Water Resources, Los Angeles Department of Water and Power, Northern California Power Agency, and Balancing Authority of Northern California provided overviews of their	May 4 Workshop	Completed

	<p>efforts to support reliability in the state in 2020 and their activities to support summer 2021 reliability.</p> <p>The CEC, CPUC, and CAISO hosted a second joint IEPR workshop on July 8 and 9. Day 1 addressed hydro power and drought, imports, demand response, and mid-term reliability. Day 2 addressed the relationship between natural gas and electric systems as it relates to summer and winter reliability.</p>	July 8-9 Workshop	Completed
All	<p>Demand Response Round Table – The CAISO, CEC and CPUC held a second Demand Response Round Table with industry stakeholders to discuss strategies to maximize the potential of demand response in the short and long term.</p>		Completed on March 16, 2021