# CALIFORNIA
## TECHNICAL FORUM

## Business Plan
## 2020

*To support the growth and success of energy efficiency and integrated demand-side management (IDSM) through a technically rigorous, independent, transparent peer review of California energy efficiency values and other related technical information.*

| Goal | Metrics | Tactics (Cal TF) | Benefits | Tactics (Others) |
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| 1. **Administer the eTRM ver. 1.0** | Complete 2020 eTRM training objectives, including:<br>• Conduct up to nine (9) two-hour webinar trainings for different user groups; survey participants regarding views of eTRM.<br><br>Implement Phase 3 eTRM Enhancements<br>• Complete by end of Q4 2020<br><br>Administer eTRM<br>• Ongoing<br><br>Develop 2021 eTRM Enhancements list by end of Q3 2020 | Cal TF Staff will support industry training on the eTRM through the following activities:<br>• Coordinate with the IOUs, POUs, CPUC, and CEC to determine their training needs and timing.<br>• Solicit input on eTRM training needs of 3P implementers/other stakeholders through Cal TF and other venues (such as CEDMC).<br>• With input from CPUC Staff, solicit input on eTRM usability and training needs by developing and administering an online questionnaire for trainees and users and preparing summary memorandum (Q3 2020).<br>• Solicit and memorialize feedback from users on experience with eTRM ver. 1.0 and possible enhancements and solicit recommendations additional features and enhancements for 2021 (Ongoing).<br><br>Cal TF Staff administers Phase 3 Enhancement contract so that development and deliverables are on-time and within budget.<br><br>Cal TF Staff will administer the eTRM through the following activities:<br>• Respond to questions and issues raised by "Key Organizations" within 2 business day; in-state users within 4 business days.<br>• Maintain "issue" and "suggestion" log to track user issues and questions.<br>• Manage user roles and permissions<br>• Develop guidelines, processes and requirements for various functions,<br>• Monitor system performance and fix identified issues. | Cost Savings<br>Transparency<br>Standardization<br><br><br><br><br><br><br><br><br>eTRM User Experience<br><br><br>Transparency<br>eTRM User Experience | Key stakeholders (6 funders – PG&E, SCE, SCG, SDG&E, LADWP and SMUD – and the regulatory agencies, CPUC and CEC) will identify key internal users to receive eTRM training and support.<br><br>CPUC Staff and Ex Ante Review Consultants (EAR Consultants) will provide input on what feedback they would like from eTRM users.<br><br>Key stakeholders (6 funders – PG&E, SCE, SCG, SDG&E, LADWP and SMUD – and the regulatory agencies (CPUC and CEC) will dedicate staff to test new features after each eTRM development "sprint."<br><br>The eTRM web developer will complete bug fixes or required updates. |

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| 2. | **Implement the eTRM Launch Plan so the eTRM will be the "Database of Record" Effective January 1, 2021** | Implement the eTRM Launch Plan so that eTRM is used as "Database of Record" for statewide deemed measures by CPUC, IOUs, POUs, and 3Ps by January 1, 2021 [1] | Cal TF Staff will collaborate with multiple organizations to develop Transition/Testing and Acceptance Plans for each organization. <br>• Q1 and Q2 – plans developed <br>• Q3 and Q4 – testing and acceptance plans implemented. <br><br>Cal TF Staff will work with the CPUC Staff and Cal TF PAC to identify and implement the regulatory path to eTRM adoption as the "Database of Record" by January 1, 2021. <br><br>Cal TF Staff will update measures with all eTRM Phase 3 Enhancement features so that measures that are already entered will reflect all Phase 3 Enhancements. | Cost Savings <br>eTRM User Experience <br>Transparency <br>Statewide Consistency | The following organizations will meet with Cal TF Staff to identify opportunities for transitioning to and leveraging the eTRM: <br>• CPUC <br>• CEC <br>• CEDMC and members <br>• IOUs <br>• POUs <br>• RENs |
| 3. | **Manage and Implement the 2020 Measure Development and Review Process** | Track and report measure development metrics (Ongoing) | Cal TF Staff will establish a statewide Measure Review Committee for measure screening. <br><br>Cal TF Staff will create a central intake process for 3P proposed measures (new or updated) through Cal TF website. Cal TF Staff will screen Measure Intake form for completeness. <br><br>Cal TF Staff will memorialize measure review committee decisions and will enter "passing" measure into eTRM. <br><br>Cal TF Staff will solicit early Cal TF and EAR Consultants feedback on proposed measures or measure updates and will monitor measure development. <br><br>Cal TF Staff will review final measure or measure update to ensure it conforms to the Measure Development and Peer Review QA/QC Guidelines. Cal TF Staff will then work with | Cost Savings <br>Time Savings <br>Transparency <br>Stakeholder Engagement | The IOUs and POUs will track time and costs associated with new measure development and measure updates utilizing tools available in the eTRM. |

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[1]  Successful completion of this deliverable is subject to CPUC approval for the eTRM to serve as the Database of Record for statewide deemed measures.

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| | | | measure developers to present and seek affirmation from Cal TF. Finally, Cal TF Staff will then coordinate with IOUs, who will submit measures through WPA for CPUC Staff review and approval.<br><br>Cal TF Staff will work with CPUC Staff, IOUs, and POUs to develop tracking of time and costs associated with new measure development and measure updates. | | |
| 4. | **Identify, Analyze and Make Recommendations on Key Emerging Technical and Technical Policy Issues in Statewide Consistent Way**<br><br>**Update, Prioritize and Maintain Stage 2 Issues List** [2] | Track, monitor, and report on recommendations pertaining to Cal TF Stage 2 Issues List | Cal TF Staff will maintain and update the Stage 2 Issue List with input from IOUs, POUs, Staff and EAR Consultants and CEC Staff. | Transparency<br>Statewide Consistency<br>Technical Rigor | The following entities will provide timely input on the Stage 2 Issue List, particularly how to prioritize issues and if they would like to lead development and resolution of one or more Stage 2 issues:<br>• IOUs & POUs<br>• CPUC ED & EAR team<br>• CEC |
| | **Develop One or More Technical Position Papers (TPP)** | Draft and Final TPP (1) | Potential Topics<br>• Review current potential Study Methodology (Q1/Q2 2020) and Propose Improvements in Approach (Q3)<br>• Harmonize cost and savings methods across deemed measures.<br>• Evaluate PAC vs. TRC in screening and valuing measures<br>• Review current CA TRC calculation approach; Recommend modifications | Technical Rigor | |
| | **Cal TF Staff or Cal TF Staff Member Develop One or More "Cal TF White Papers"** | Draft and Final White Papers (2) | Potential Topics<br>• Approaches to developing non-widget-based measures<br>• Approaches to developing WP for emerging measures or measure "extensions" | Technical Rigor<br>Statewide Consistency | |

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[2] Stage 2 issues are issues related to deemed measures that should be addressed/resolved later (after CPUC review/approval process for a new/updated measure). It is common for issues to be identified (policy or technical) that cannot be addressed/resolved at the time a measure is submitted for review due to insufficient data, need for a policy clarification/change, or other reasons.

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| | | o Existing conditions/flexible baseline (whole building) (AB 802 Measures)<br>o "NMEC" measures<br>o "Procedural" measures (savings from ex post)<br>o Targeted measures<br>o Fuel switching measures<br>o Simple measure bundles related to statewide policy objectives (ZNE and decarbonization)<br>o Hybrid Measures<br>• Relationship between system efficiency and measure efficiency (e.g. HVAC)<br>• Recommendation to changes to EUL/RUL rules (existing measures)<br>• Approaches to developing a common set of load shapes in CA. | | |

**5. Modeling**

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| **Develop Framework for Statewide Consistent Building Prototypes** | Draft and Final Framework | • Catalog existing efforts, pros and cons of each from CA perspective<br>• Identify building types for which building prototypes should be developed<br>• Identify CA EE use cases<br>• Identify (high-level) how use cases should result in differences between building prototypes<br>• Identify best sources of data for developing new building prototypes<br>• Evaluate process for seeking regulatory approval to use new building prototypes (CPUC and CEC).<br>• Recommend approach for developing statewide consistent building prototypes<br>• Investigate and document the differences between the residential and | Statewide Consistency<br>Standardization<br>Transparency | CalBEM Participants, including:<br>• CalTF (Bob, Annette, Ayad, others): DEER prototypes for deemed savings<br>• NORESCO (Rahul): CBECC-Com and impact analysis prototypes<br>• SCE (Ryan and Will): DEER Prototypes for benchmarking database<br>• PNNL (Supriya): ASHRAE 90.1 prototypes<br>• Big Ladder (Neal): RTF prototypes (also worked on the benchmarking database prototypes)<br>• TRC (Abhijeet): New multifamily prototypes for CBECC-Res/Com |

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| | | | business building prototypes from these standards:<br>• Clearly define what is and is not included in the ruleset documentation for residential and commercial building prototypes and identify rules that need to change between different use-cases.<br>    o CEC CSE (CBECC-Res and-Com)<br>    o CPUC DOE2 Residential and Commercial<br>• Provide recommendations on the number of building type and vintage prototypes that should be maintained. | | |
| | **Document Deemed Modeled Measures in a Consistent / Transparent Way** | For all modeled measures (primarily DEER measures), identify missing documentation for the eTRM (requires assistance from EAR Consultants)<br><br>Create documentation standard to follow for a modeled measure to ensure all modeled measures for deemed are well-documented and reproducible | Create consensus on the methodology for documenting modeled measures that could include:<br>• Prototype source<br>• Input files (weather files, thermostat settings, weighting files, etc.)<br>• Keyword changes with justification and documentation.<br>• Identify areas where documentation is not available so it can be updated over time.<br><br>Create a standard way to document results of a modeled measure. | Transparency<br>Standardization<br>Cost Savings<br><br><br><br><br><br>Transparency<br>Standardization | EAR Consultants will identify missing documentation for DEER modeled measures.<br><br>CPUC Consultants (Group A and D) and CEC Staff will develop common documentation standard for modeled measures.<br><br>SCE, the statewide lead for modeling, will collaborate with Cal TF Staff. |
| 6. | **Support Custom Process Project Improvement Process** | Develop TPP 12 on how eTRM and Cal TF could improve custom process.<br><br>Develop custom project workflow technical and business specification for the eTRM (subject to outcome of TPP 12) | Host charette on how eTRM and Cal TF could improve custom process. Use process similar to TPP 2 (on creating eTRM for deemed measures) to develop companion TPP for custom measures.<br><br>Create a technical and business specification to develop the custom measure workflow within the eTRM that will make custom project development and review (time and process) transparent, trackable, and reportable. | Cost savings<br>Transparency<br>Standardization<br>Statewide Consistency<br>Customer Experience<br><br>Customer Experience<br>Transparency<br>Standardization<br>Cost Savings | IOUs will provide their respective custom measure numbering processes. |

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| | Develop statewide numbering and naming system through consensus process (subject to outcome of TPP 12) | Gain consensus and formalize the recommended statewide number and naming system in a memo. Note that IOUs will likely maintain a crosswalk internally to accommodate within their systems. | Standardization | |
| 7. Develop Guidelines and Process for Hybrid Measures | Develop guidelines for "hybrid measures" created through consensus process<br><br>Identify and create 2 – 3 hybrid measures (Q4 2020) | Define and create criteria for a hybrid measure.<br><br>Develop Hybrid Measure Characterization Template and Data Specification based on the Statewide Deemed Measure Data Specification.<br><br>Review IOU custom measure project lists from the previous 5 years to create list of all potential hybrid measures and support the choice for the first 2 – 3 hybrid measures.<br><br>Ensure that the first hybrid measures include both gas and electric savings measures.<br><br>Create guidance for the hybrid measure savings calculation methodology for the 2 – 3 example measures that includes:<br>• Allowable assumptions<br>• Inputs from specifications<br>• Inputs from spot measurements<br>• Inputs from logged/monitored data<br><br>Create guidance for M&V that varies based upon savings or risk or other defendable criteria for the 2 – 3 example measures.<br><br>Create guidance for the calculation methodology specifically for the 2 – 3 example measures that includes:<br>• Cost documentation<br>• References<br>• Project life | Cost Savings<br>Time Savings<br>Customer Experience<br>Increased Savings<br><br><br><br>Standardization<br>Cost Savings<br>Transparency<br><br><br>Cost Savings<br><br><br>Customer Satisfaction<br>Standardization<br>Cost Savings<br>Transparency<br><br><br><br>Standardization<br>Cost Savings<br><br><br>Cost Savings<br>Customer Satisfaction<br>Standardization | The IOUs and POUs will provide custom data to support this goal.<br><br>The CPUC Custom lead and CPUC Group D consultants will provide input and review.<br><br>CPUC Staff and Group A consultants will provide input to ensure alignment.<br><br>Cal TF members will help to gather the implementer perspective for this process. |

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| | | | • Influence | | |
| 8. | **Manage, Update and Communicate Monthly Changes to the "Statewide Deemed Measure List"** <br><br> **Facilitate Statewide Coordination and Communication of New Statewide Deemed Measures and Measure Updates.** | Update and post the Statewide Deemed Measure List (Monthly) | Cal TF Staff will work with CPUC Staff and EAR Consultants to update the Statewide Deemed Measure List form with additional fields and information requested by the EAR Consultants. <br><br> Cal TF Staff will circulate the Statewide Deemed Measure List monthly to IOUs and POUs for new measures and measure updates. <br><br> Cal TF Staff will conduct monthly teleconferences with designated IOU and POU leads to review new measures and measure updates to ensure all are aware of changes/additions and can ensure measure changes/additions reflect statewide needs. <br><br> Cal TF Staff will post monthly updated Statewide Deemed Measure List to Cal TF website. | Cost Savings <br> Statewide Consistency <br> Transparency | During monthly meetings, the IOU and POU measure development coordinators will inform their IOU counterparts and Cal TF Staff of measures under consideration, in development, and retired; as well as the status of measures in development. <br><br> IOU/POU measure development leads will ensure that new measures are developed to be applicable statewide and will reflect include input from their counterparts at other IOUs and POUs. |
| 9. | **Manage the Cal TF and Cal TF PAC** | Conduct at least six (6) TF meetings and additional subcommittee meetings held, as required. <br><br> Conduct four (4) PAC meetings or teleconferences <br><br> Maintain Cal TF website and update and post all materials | To manage the TF, Cal TF Staff will: <br> • Prepare a calendar of TF meetings and locations <br> • Secure meeting locations and arrange other logistics <br> • Prepare and post meeting agendas and materials <br> • Manage TF meetings <br> • Prepare and post meeting notes <br><br> To manage the Cal TF PAC, Cal TF Staff will: <br> • Schedule PAC meetings approximately quarterly, based on policy needs and activity <br> • Prepare meeting agendas and materials <br> • Manages meetings <br> • Prepare and circulate meeting notes <br><br> Cal TF Staff will maintain current data and information (including Cal TF process documents) on the Cal TF website. | Transparency <br> Statewide Consistency <br> Stakeholder Engagement | Cal TF and PAC members will attend meetings. <br><br> Cal TF members will participate in subcommittee meetings relevant to their expertise. <br><br> Cal TF and PAC members will prepare for meetings by reviewing materials in advance. |

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| 10. **Develop the 2021 Cal TF Business Plan** | Develop Cal TF 2021 Business Plan<br>• Draft by October 15, 2020<br>• Final by the December 2020 PAC Meeting | Cal TF Staff will solicit comments on Cal TF 2021 Business Plan from TF, PAC, CPUC and CEC staff, and other stakeholders.<br><br>Cal TF Staff will update the draft plan to reflect the stakeholder input.<br><br>Cal TF Staff will develop a final Business Plan that reflects stakeholder input. Cal TF will submit to PAC review and approval in the December 2020 PAC meeting. | Transparency | PAC, TF, CPUC Staff, and others will provide input on 2021 Cal TF Business Plan.<br><br>PAC will affirm the Business Plan by December 2020. |