



Agenda

California Technical Forum (Cal TF)

Modeling Charrette

May 30, 2019

9:30 a.m. – 4:30 p.m.

Pacific Energy Center
851 Howard Street, San Francisco

Time	Agenda Item	Discussion Leader(s)
9:30 – 10:00	Opening, Agenda and Introductions <ul style="list-style-type: none"> Icebreaker 	Annette Beitel, Cal TF Facilitator
10:00 – 10:30	Goals and Desired “Future State” <ul style="list-style-type: none"> Review input to date Review Future State “Starting Point” slide <p>ACT: Participant Input on goals for the day that could lead to improvements in the California modeling ecosystem and desired “Future State”; Identify Future Opportunities for modeling tools.</p>	Annette Beitel Martha Brook, CEC Manisha Lakhanpal, CPUC Steve Kromer, SKEE
10:30 – 11:30	Brief History and Current State <ul style="list-style-type: none"> Brief History of Modeling Prior attempts at modeling “reform” Current State: Use Cases, Models, Interfaces, Building Prototypes/Rulesets Review Handouts 1 and 2 Proposed metrics for reviewing models/interfaces/future states 	Steve Kromer Doug Mahone, Cal TF Member Roger Baker, Cal TF Staff



	<p>ACT: Participant Feedback on whether “current state” descriptions (Handouts 1 & 2) complete and correct; Start identifying broad areas of agreement.</p>	
11:30 – 12:00	<p>Current Challenges in CA Building Simulation Modeling</p> <ul style="list-style-type: none"> • Example 1: Many models, one building • Example 2: Documentation and reproducibility <p>ACT: Participant Feedback on challenges they have experienced with building simulation in CA.</p>	<p>Steve Kromer</p> <p>Ayad Al-Shaikh, Cal TF Staff</p>
12:00 – 12:30	<p>LUNCH</p>	
12:30 – 1:15	<p>“Future State” Case Study: LADWP Use of Modeling Tools</p> <p>ACT: Inform participants about advanced modeling capabilities and potential real-world applications.</p> <p>Participant Questions; Participant Input on other “Future State” Uses.</p>	<p>Armen Saiyan, LADWP</p> <p>Andrew Parker, NREL</p> <p>Chan Paek, SCG</p>
1:15 – 2:15	<p>Exercise #1: Harmonizing/Standardizing Modeling Approaches (Inputs and Modeling Tools/Software) Across IDSM Programs/Use Cases</p> <ul style="list-style-type: none"> • Identify commonalities between Use Cases • Can use cases that are similar be more aligned (engines, interfaces, rulesets, prototypes)? • How can they be more aligned? <p>ACT: Participant Input on opportunities to harmonize use cases.</p>	<p>Roger Baker</p> <p>Doug Mahone</p> <p>Steve Kromer</p> <p>Armen Saiyan</p> <p>Ayad Al-Shaikh</p>
2:15 – 2:45	<p>Exercise #1 Report-out</p>	<p>Team Leads</p>



2:45 – 3:00	Break	
3:00 – 4:15	<p>Exercise #2: Additional Participant Feedback on Key Issues for TPP</p> <ul style="list-style-type: none"> Identify the path forward (near- and long-term) in the following areas: <ol style="list-style-type: none"> Goal/Metrics Desired Future State for CA Modeling Ecosystem Future Uses of Modeling & Emerging Needs <p>ACT: Participants to visit 1-2 stations/topics of interest and identify considerations for path forward. Facilitated discussions to identify recommendations for path forward.</p>	<p>Roger Baker</p> <p>Doug Mahone</p> <p>Steve Kromer</p> <p>Armen Saiyan</p> <p>Ayad Al-Shaikh</p>
4:15 – 4:30	<p>Next Steps and Close</p> <ul style="list-style-type: none"> Cal TF Staff will clarify and follow-up on issues, as needed Cal TF Staff prepares Draft TPP Circulate to participants for comment; Identify industry peer reviewers Teleconference, possible follow-up meeting in fall. <p>ACT: Discuss next steps and timing.</p>	<p>Annette Beitel</p>

Background Reading Material

- SCE Building Energy Modeling Roadmap (August 2016)
- Kromer, Status of Energy Modeling and Data Resources in CA EE Programs (2019)
- Cal TF Technical Position Paper No. 3: Case for Using EnergyPlus as “Default” Modeling Engine for the “Electronic TRM” Project

Meeting Materials

- Presentation: Modeling Charette
- Handout #1: Matrix: Proposed Modeling Characterization Matrix (Doug Mahone)
- Handout #2: “Current State” Tables (Cal TF Staff)