

# **IRP Modeling Advisory Group Charter**

#### Purpose of the Group

The primary purpose of the Integrated Resource Planning (IRP) Modeling Advisory Group (MAG) is to ensure the modeling work undertaken by Energy Division and by individual LSEs as part of the 2017 IRP process is performed in a manner that is as transparent and objective as possible.

In order to achieve its purpose, the Modeling Advisory Group will serve as a forum for Energy Division staff to:

- 1. Provide timely information to parties about completed and planned IRP modeling-related activities; and
- 2. Solicit and receive feedback from parties about completed and planned IRP modeling-related activities.

#### Scope of Work

Throughout the fourth quarter of 2016, MAG will primarily focus on developing draft guidance for modeling and analytical work to be performed in the 2017 IRP process.<sup>1</sup> In 2017, the group will shift focus to developing guidance for modeling for the 2018 and subsequent IRP cycles. The draft guidance related to modeling and analytical work is anticipated to include the following primary categories: study plan, filing requirements, and standards of review.

Key 2017 IRP Modeling-Related Issues (representative, but not necessarily comprehensive)

- 1. Study plan for developing a Reference System Plan
  - a. RESOLVE inputs, outputs, mechanics, and data formats
  - b. Input sources, uncertainties, futures, sensitivities, and scenarios<sup>2</sup>
  - c. Content and format of System Plan
- 2. Filing requirements for LSEs: analytical information needed to enable CPUC review
  - a. Modeling guidelines
  - b. Data requirements
  - c. Metrics for tracking compliance with statutory goals

<sup>&</sup>lt;sup>1</sup> The draft guidance issued by Energy Division in December may also include other topics not directly related to modeling and analytical issues, such as procedural outcomes and procurement, but those issues will addressed outside of MAG.

<sup>&</sup>lt;sup>2</sup> Including inputs from other agencies such as CARB, CEC, and CAISO

- 3. Standards of review for individual IRPs filed by LSEs: how the information filed by LSEs will be evaluated from technical perspective
  - a. Define criteria for evaluating individual and aggregate LSE plans including allowable ranges of deviation from the Reference System Plan
  - b. Define processes and analytical work to evaluate whether criteria are met and whether deviations from the Reference System Plan are reasonable

Additional Future IRP Modeling Issues (to be addressed in 2017 for 2018-19 IRP)

- Role, nature, and timing of reliability assessments
- Alternative modeling platforms and approaches for developing the System Plan

The issues in scope under this charter may be adjusted and refined by Energy Division staff from time to time in response to clearly identified and articulated needs arising during the course of IRP development activities.

# **Ground Rules for Participation**

To participate in MAG, members must acknowledge and agree to the following ground rules.

- The topics to be addressed in MAG are likely to become highly technical. Energy Division will do
  its best to provide materials and resources to facilitate understanding of these topics. Members
  must make a good faith effort to review and understand any materials provided. This may
  require time outside of the designated MAG meeting times.
- 2. Members agree to restrict discussion to issues defined in this charter as being within the scope of work of this group.
- 3. Members must be willing to work constructively and collaboratively to find reasonable approaches for developing the work products identified in this charter recognizing that:
  - a. time and resources are limited;
  - b. IRP planning and procurement are iterative, with each cycle building on the information lessons learned from the previous cycle.
- 4. Members must be committed to helping Energy Division meet the deadlines listed in this charter (which may be modified by Energy Division from time to time).
- 5. Verbal comments during meetings and calls must address the specific topics being discussed on the agenda of each meeting.

# **Frequency and Format of Meetings**

MAG meetings will consist of conference calls and/or webinars hosted by Energy Division every other week. Each meeting will generally follow a standard format (see table below), consisting of a report-out on recently completed activities, a look-ahead at planned near-term activities, and key questions for discussion. Time will also be reserved at the end of each meeting for general questions and answers to enable members to both improve their own understanding as well as shape the work performed by staff.

As needed, Energy Division may also solicit informal, written comments from group members on specific questions, which will typically be due one week from the meeting date (and one week before the next meeting date).

Specific meeting agenda items will be circulated by Energy Division prior to each scheduled meeting.

# Standard MAG Meeting Agenda (90 min)

Agenda Item	Time (min)		
1. Energy Division reports out on recently completed activities			
and action items from last meeting	20		
2. Energy Division discusses planned near-term activities			
3. Energy Division poses key questions	10		
4. Members ask clarifying questions, provide initial responses	20		
5. Member Topics and General Q&A	20		

# **Energy Division Work Products and Deadlines**

- 11/8: Slides for November Workshop
- 11/??: November Workshop (tentative)
- 12/23: Draft Staff Proposal on IRP Guidance Due

# Preliminary Draft IRP Modeling Advisory Group Meeting Schedule and Topics (Work Products Shown in Italics)

#	Date	Report Out Topic	Look Ahead Topic
1	10/20/16	Post-workshop comments on analytical framework	Introduction to RESOLVE for IRP
2	11/3/16	RESOLVE follow-up	<ul> <li>Proposed Assumptions</li> <li>Scenario Development</li> <li>Filing Requirements</li> </ul>
	11/??/16	<ul> <li>Staff Workshop (draft agenda – subject to change)</li> <li>Proposed Assumptions, including GHG</li> <li>Scenario Development</li> <li>Filing Requirements</li> <li>Procedural Outcomes</li> </ul>	
3	11/17/16	Workshop follow-up (if date allows)	IRP review standards
4	12/1/16	Review Standards	Economic retirement
5	12/15/16	Economic retirement	Staff proposal content
	12/23/16	Draft Staff Proposal on IRP Guidance Due	

# First IRP Modeling Advisory Group Meeting Agenda

The following topics are anticipated to be addressed at the first MAG meeting

- Review of charter, including goals and ground rules for participation
- Overview of RESOLVE
  - o Inputs
  - o Outputs
  - o Mechanics
  - Data formats
- How RESOLVE can/cannot address key emerging issues
  - o Curtailment
  - o Storage
  - o EVs
  - o PV-induced peak shift
  - o TOU rates
  - o BTM resources, including BTM PV and BTM storage

#### **Questions on Draft Charter:**

- 1. Are there any additional specific modeling-related issues not listed under the scope section that Energy Division should be sure to address within the MAG in 2017?
- 2. Are any additions or modifications to the ground rules essential to the success of the group?

#### Questions on First IRP Modeling Advisory Group Meeting Schedule

3. Are there any additional agenda items that you'd like to see included in the first MAG meeting?