



Workshop on Integrated Resource Plan (IRP) Modeling Results for the 2018 Preferred System Plan



January 7, 2019

California Public Utilities Commission

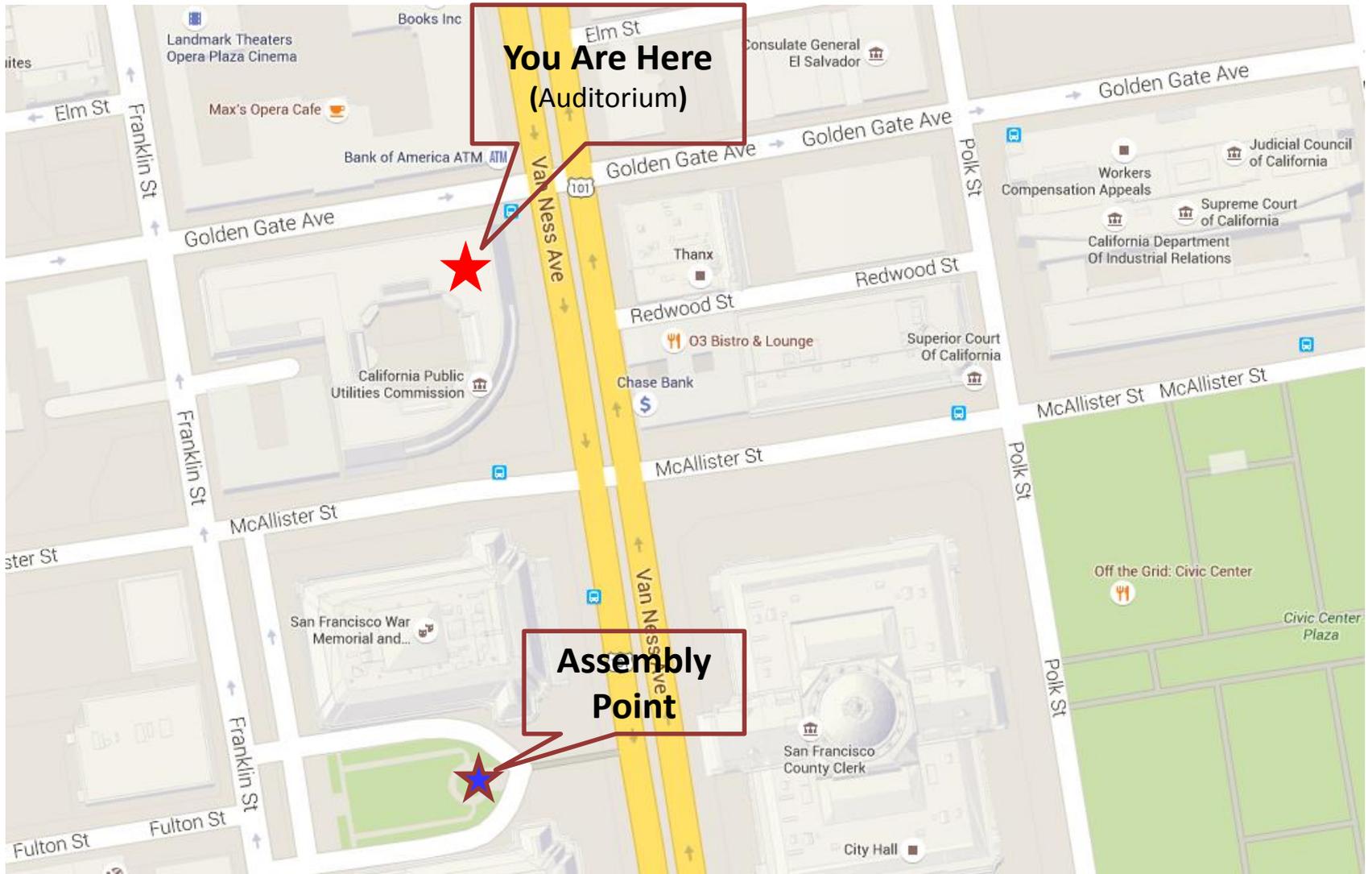
Introduction

- Housekeeping
 - Staff introductions
 - Informal workshop, not on the record
 - Safety information and logistics
- Workshop purpose and agenda

Safety and Emergency Information

- In the event of an emergency, please proceed out the exits.
- We have four exits: Two in the rear and one on either side of the speakers.
- In the event that we do need to evacuate the building:
 - Our assembly point is the Memorial Court just north of the Opera House.
 - **For the Rear Exits:** Head out through the courtyard, and down the front steps. Continue south on Van Ness Ave, and continue toward the Memorial Court.
 - **For the Side Exits:** Go out of the exits and you will be on Golden Gate Avenue. Proceed west to Franklin Street. Turn south onto Franklin Street, and continue toward the Memorial Court.

Evacuation Map



Call-in Information

To start or join the online meeting, go to:

<https://centurylinkconferencing.webex.com/centurylinkconferencing/j.php?MTID=m540a319de5fa9b6c53a9b2f1592e12ad>

Meeting number: 718 967 261

Meeting password: !Energy1

Call-in: 1-866-830-2902

Passcode: 2453758#

- Remote callers will be placed in listen-only mode by default. Please submit questions via the WebEx chat.
- We will have time for Q&A at the end of each panel.
- Please state your name and organization before asking a question.

Other Information

Wi-Fi Access

- login: guest
- password: cpuc123118

IRP Websites

- Main webpage for IRP materials
 - <http://www.cpuc.ca.gov/irp/>
- Shortcut to production cost modeling related data
 - [Production Cost Modeling Data](#)
- All staff work products are available for download

Restrooms

Out the Auditorium doors and down the far end of the hallway.

Purpose of Workshop

- Workshop purpose:
 - Provide an opportunity for CPUC staff and other parties to present production cost modeling (PCM) and other results from analyzing the Hybrid Conforming portfolio
 - Present the portfolios recommended for transmission to the CAISO Transmission Planning Process (TPP)
 - Solicit stakeholder input on any actions the CPUC should take based on the modeling results for the 2018 Preferred System Plan
- Out of scope:
 - Staff's evaluation of individual LSE Plans

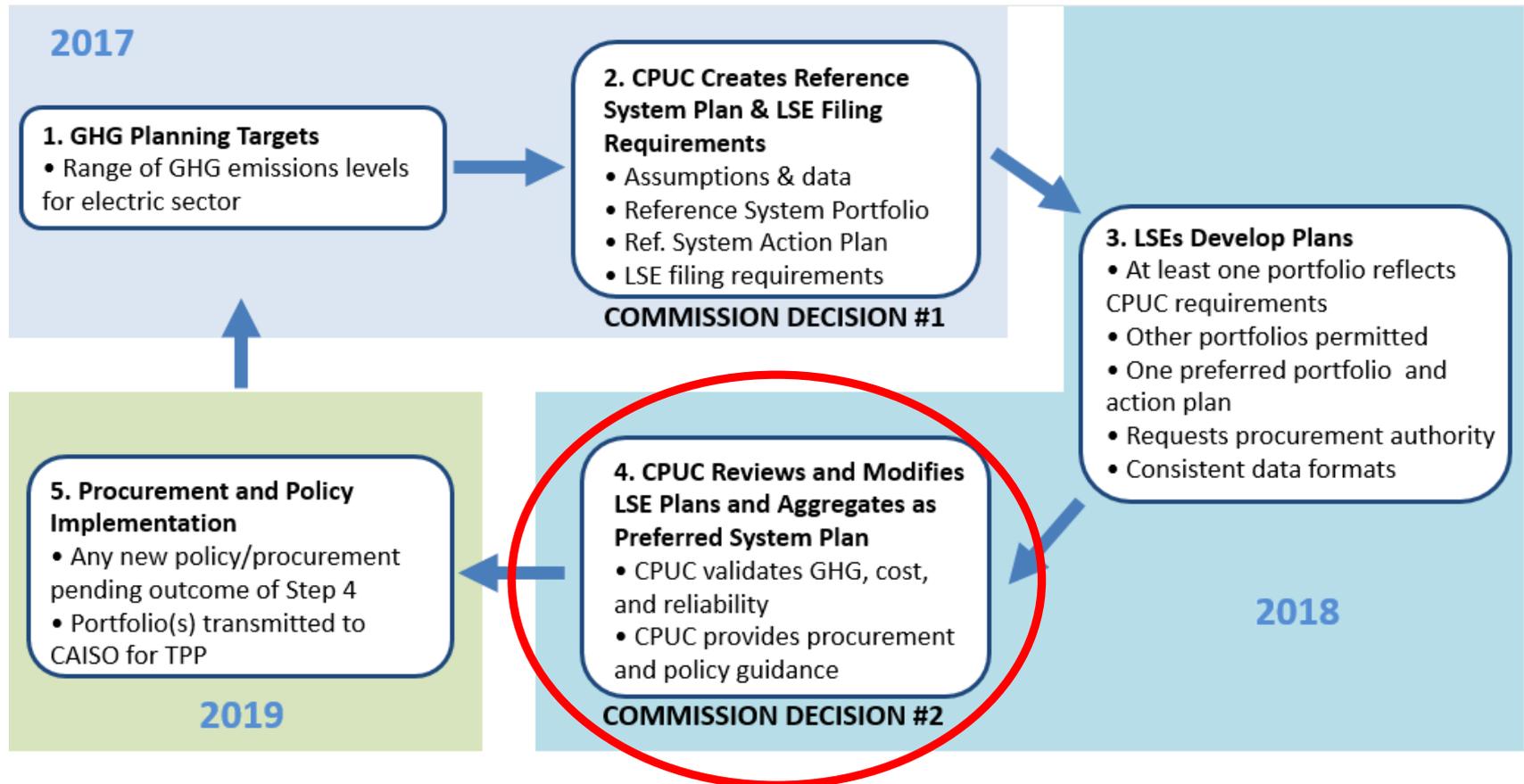
Agenda

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|------|--|---------------|
| I. | Introduction | 10:00 – 10:10 |
| II. | CPUC Staff Modeling Results of Hybrid Conforming Portfolio | 10:10 – 11:40 |
| | STRETCH BREAK | 11:40 – 11:45 |
| III. | CPUC Staff Recommended Portfolios for CAISO TPP | 11:45 – 12:30 |
| | LUNCH | 12:30 – 1:30 |
| IV. | CAISO Modeling Results of Hybrid Conforming Portfolio | 1:30 – 2:15 |
| | STRETCH BREAK | 2:15 – 2:20 |
| V. | SCE Modeling Results of Hybrid Conforming Portfolio | 2:20 – 2:50 |
| VI. | GridLiance Modeling Results of Hybrid Conforming Portfolio | 2:50 – 3:20 |
| VII. | Stakeholder Discussion to Inform Commission Actions | 3:20 – 4:00 |

Background on the CPUC IRP 2017-18 Cycle

- Commission Decision (D.18-02-018) established IRP as a two-year planning cycle designed to ensure LSEs are on track to achieve GHG reductions and ensure electric grid reliability at least cost while meeting the state's other policy goals.
- In the 2017-18 IRP cycle, Year 1 was spent developing the **Reference System Plan** using the RESOLVE capacity expansion model. In February 2018, the Commission adopted an optimal Reference System Portfolio of resources to meet an electric sector GHG planning target of 42 MMT by 2030.
- LSEs used the guidance provided in the Commission's decision to develop individual IRPs ("LSE Plans"), and they filed their IRPs with the Commission on August 1, 2018.
- CPUC staff conducted production cost modeling (PCM) to evaluate system reliability, emissions, and operational performance of the adopted Reference System Plan calibrated with the California Energy Commission's (CEC's) 2017 Integrated Energy Policy Report (IEPR) demand forecast. The PCM process was formalized by ruling on November 15, 2018.
- CPUC staff aggregated and adjusted the portfolios of each LSE's IRP to create the system Hybrid Conforming portfolio, to be further analyzed with the PCM process.
- The Commission expects to adopt a **Preferred System Plan** in Q1 2019.

Currently in Step 4 of the IRP 2017-18 Process



Staff has evaluated the LSE Plans, aggregated the LSE portfolios, and conducted production cost modeling to inform the Preferred System Plan

Key Proceeding Milestones for IRP 2017-18 Cycle

ACTIVITY	DATE
Workshop on proposed Preferred System Plan and TPP scenarios, including staff and other party PCM results	January 7, 2019
Ruling seeking comment on proposed Preferred System Portfolio and TPP scenarios recommended by staff	January 11, 2019
Party comments in response to proposed PSP ruling and any PCM results submitted to CPUC	January 31, 2019
Reply comments in response to proposed PSP ruling	February 11, 2019
Proposed Decision on Preferred System Plan issued for comment	March 2019

Questions for Stakeholder Discussion

- The final segment of this workshop will be devoted to discussing the following questions with stakeholders:
 1. Do stakeholders agree with the modeling findings and conclusions presented by CPUC staff and other parties?
 2. What actions (regulatory, administrative, technical) should be taken based on the modeling results of the Hybrid Conforming Portfolio?
 3. Should the Commission adopt the Hybrid Conforming Portfolio as the IRP 2018 Preferred System Portfolio, as proposed by staff? If so, what new procurement, investment, or additional process (if any) do stakeholders recommend?
- Please keep these questions in mind during today's presentations and Q&A discussions