# DOCKETED

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# ITEM 5

Brief update on the Senate Bill 100 planning activities and next steps

# Workshop Summary: Planning for SB100 Analysis of Non-Energy Benefits, Social Costs, and Reliability

November 2021 Disadvantaged Community Advisory Group Meeting

Aleecia Gutierrez, Deputy Director, Energy Assessments Division

# Planning for SB100 Analysis of Non-Energy Benefits, Social Costs and Reliability

- CEC provided background on SB100 and California's approach to integrating non-energy benefits

- US Department of Energy provided a national perspective on the importance of non-energy benefits

- Panel discussion of non-energy benefits and social costs

- Overview of SB 100 modeling and reliability

# SB 100 Implementation Activities

2021 Joint Agency SB 100 Report published.

Joint agencies will publish 2025 SB 100 report.

**2021** ······················ **2025**

**Infrastructure, Modeling, Implementation**

- Land Use
- Transmission Planning
- Long-Term Reliability Assessment
- Modeling improvements to consider NEBs/Social Costs
- CAISO Exploratory 20-Year Transmission Study

# Social Costs and Non-Energy Benefits



Stakeholders recommended the joint agencies integrate the following into SB 100 planning:

- Land Use Impacts

- Public Health and Air Quality

- Water Supply and Quality

- Economic Impacts

- Resilience

# National perspective on Non-Energy Benefits Department of Energy

**Alejandro Moreno**

- DOEs commitment to considering both reliability and equity in the clean energy transition

- "The equity we need to see is not going to happen on its own -- it takes a concentrated effort across the federal government, across state government, across private sector partners"

**Dr. Tony Reames**

- DOEs data driven, place-based approach to an equitable and just energy future

- Justice40 Initiative to deliver 40% of overall benefits of relevant federal investments in climate and clean energy to underserved communities

# Panel on NEBs and Social Cost Themes and Feedback

| Topic of Discussion | Feedback |
|---|---|
| Measuring equity and changes in equity | Consensus that equity is hard to quantify and monetize<br>Equity must go beyond "access" alone |
| Approaches to modeling Non-Energy Benefits | Triple Bottom Line (Economic + Environmental + Societal) |
| Modeling NEBs at statewide level vs. community level | Necessary to focus on local scale because NEBs are localized/community-based<br>Build up to state model from communities |
| Data driven approach to analyzing NEBs | Collect and use correct, high-quality data<br>We have data now, how can it be utilized now |
| Prospective vs. retrospective analysis of NEBs | Avoided social costs analysis is after the fact, need to prioritize prospective modeling |
| Importance of health and air quality impacts | Public health and air quality are high priority NEBs |
| Lack of discussion on land use and water quality implications | Focus in on land use and water quality in future workshops |

# SB100 Modeling and Reliability

During the finalization of the SB100 report stakeholders expressed a clear desire for SB100 modeling to focus on:

1. Non-energy benefits
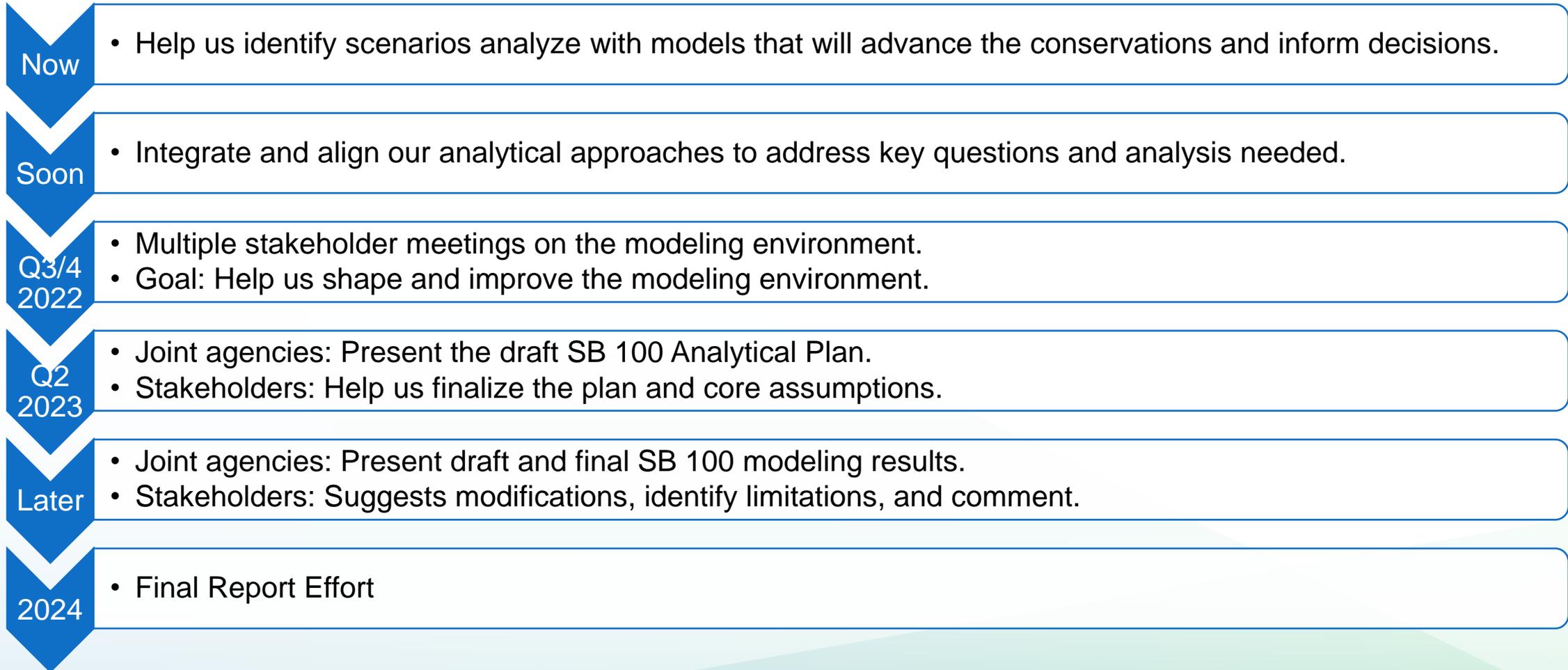2. Reliability

# SB100 Modeling and Reliability

Support development of California's Electricity grid so that it will:

1. Be reliable

2. Handle high electrification

3. Meet climate and other policy goals

4. Be affordable and equitable

5. Be implemented by 2045

# Timeline of Stakeholder Engagement

**Now**
- Help us identify scenarios analyze with models that will advance the conservations and inform decisions.

**Soon**
- Integrate and align our analytical approaches to address key questions and analysis needed.

**Q3/4 2022**
- Multiple stakeholder meetings on the modeling environment.
- Goal: Help us shape and improve the modeling environment.

**Q2 2023**
- Joint agencies: Present the draft SB 100 Analytical Plan.
- Stakeholders: Help us finalize the plan and core assumptions.

**Later**
- Joint agencies: Present draft and final SB 100 modeling results.
- Stakeholders: Suggests modifications, identify limitations, and comment.

**2024**
- Final Report Effort

# Questions for the DACAG

1. What reliability questions do you have?

2. What other questions do you have? Can modeling help?

3. What are the most important nonenergy benefits to consider, and how should they be incorporated into electricity supply models?

4. What recent and ongoing modeling work should we be referencing and engaging with?

5. How can we best foster engagement on the modeling?