

| <b>DOCKETED</b>         |                                                                              |
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| <b>Project Title:</b>   | Lithium Valley Commission                                                    |
| <b>TN #:</b>            | 243793                                                                       |
| <b>Document Title:</b>  | June 16 Lithium Valley Commission Meeting - Follow up on geothermal question |
| <b>Description:</b>     | N/A                                                                          |
| <b>Filer:</b>           | Erica Loza                                                                   |
| <b>Organization:</b>    | California Energy Commission                                                 |
| <b>Submitter Role:</b>  | Commission Staff                                                             |
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## Loza, Erica@Energy

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**From:** Brand, Erica@Energy  
**Sent:** Tuesday, June 28, 2022 5:02 PM  
**To:** Commission, Lithium Valley@Energy  
**Cc:** silvia@alianzacv.org  
**Subject:** June 16 Lithium Valley Commission Meeting: Follow up on geothermal question

Dear Commissioners,

Thank you for the opportunity to present at the June 16, 2022, meeting of the Lithium Valley Commission. As requested, I am providing additional information on the current percentage of state generation provided by geothermal resources as well as the potential percentages for geothermal electricity in the portfolio of resources required to achieve California's clean energy goals.

In 2021, geothermal energy accounted for 16.6 percent of California's in-state renewable generation. Across all generation sources – renewable and non-renewable – geothermal energy accounted for 5.7 percent of California's in-state generation.

Looking ahead to 2045, when all of California's retail electricity will come from renewable or carbon-free energy sources, as required by Senate Bill 100 (SB 100), the results of the [2021 Joint Agency Report](#) indicate that the geothermal will continue to play an important role in the diverse portfolio of clean energy resources to meet California's electricity needs.

In the scenarios studied, geothermal energy ranged from 2.5 to 5 percent of the total renewable or carbon-free energy generation to achieve SB 100. In future SB 100 studies, the joint agencies anticipate that the amount of geothermal energy selected will increase, given that new geothermal cost information became available from the National Renewable Energy Laboratory (NREL) after modeling was complete. The new projections from NREL show a 30 percent reduction in the cost of geothermal projects, due to predicted advancements in drilling efficiency and enhanced geothermal systems.

Geothermal energy has provided California with clean and reliable electricity for over 40 years and expanding geothermal energy production can advance California's progress toward its statutory renewable energy and climate mandates.

Sincerely,  
Erica Brand

### **Erica Brand**

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