

**DOCKETED**

<b>Docket Number:</b>	22-BUSMTG-01
<b>Project Title:</b>	Business Meeting Agendas, Transcripts, Minutes, and Public Comments
<b>TN #:</b>	247371
<b>Document Title:</b>	Item 07 Hell's Kitchen Geothermal Pre-treatment Pilot for Lithium Extraction (EPC-19-018-01)
<b>Description:</b>	November 16, 2022 business meeting presentation slides for item 07 for adopting CEQA findings and approving Amendment 1 to grant Agreement EPC-19-018 with Hell's Kitchen Geothermal LLC.
<b>Filer:</b>	Nadia Richards
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	11/10/2022 9:53:03 AM
<b>Docketed Date:</b>	11/10/2022



# **Item 7: Hell's Kitchen Geothermal Pre-treatment Pilot for Lithium Extraction (EPC-19-018-01)**

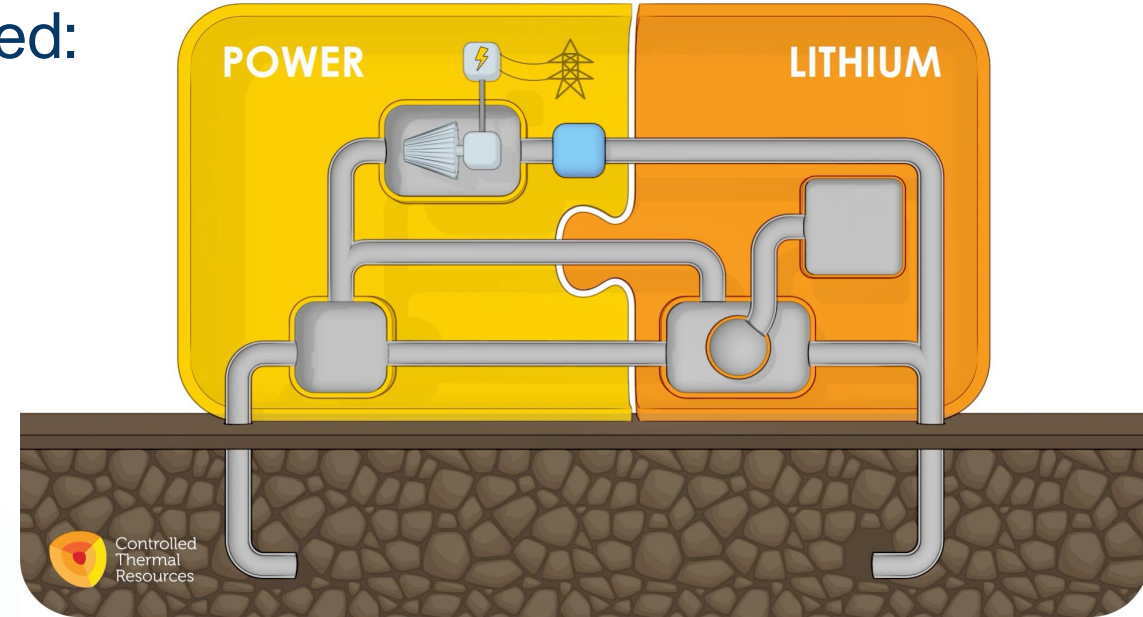
November 16, 2022 Business Meeting

Nadia Richards, Mechanical Engineer  
Energy Generation Research Office,  
Energy Research and Development Division



# Benefit to Californians

- Support technology development for increased:
  - Electric vehicle adoption
  - Stationary energy storage
- Greater electricity reliability and lower costs





# Overview

- Design and demonstrate a pre-treatment process for geothermal brine



- Project Goals:
  - Determine exact chemical composition
  - Design, construct, and test a pilot-scale process
  - Gather scaling factors
  - Provide techno-economic assessment



# Phase I

- Approved at June 2020 Business Meeting
- Design of pilot-scale pre-treatment process
- Plan to procure materials and services
- CEQA approval





# Phase II

---

- Requires CEC approval for pilot-scale pre-treatment process
- Executing grant Phase I designs and plans:
  - Constructing
  - Commissioning
  - Operating
  - Collecting & evaluating data



# Staff Recommendation

---

- Adopt CEQA findings that Phase II presents no new significant or substantially more severe environmental impacts beyond those already considered.
- Approve Phase II for grant agreement with Hell's Kitchen Geothermal.