



U.S. DEPARTMENT OF ENERGY

## American-Made Geothermal Lithium Extraction Prize

### PHASE 1 SUBMISSION

# DirectPlate™ LiCoO<sub>2</sub> as a redox membrane for direct electrochemical LiOH extraction from geothermal brine

Innovation tagline: Batteries from batteries.

*Keyword tags: Geothermal brine, direct lithium extraction, DirectPlate™, LiCoO<sub>2</sub>, redox membrane, LiOH extraction*

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Benjamin Zahirisabzevar, John Cook, Heng Yang, Badri Shyam and Chadd Kiggins

[https://www.youtube.com/watch?v=J7pAbU\\_lr8c](https://www.youtube.com/watch?v=J7pAbU_lr8c)