

## **A Cavitation-Based Hydro-Fracturing Technique for Geothermal Reservoir Stimulation**

### **Disclosure Number**

201102743

### **Technology Summary**

Here we propose a new approach, based on cavitation mechanism, to enhance the stimulation technology for developing effective EGS reservoirs. This method utilizes repetitive pressure waves induced by specific pulsed power sources to generate continuing cavitation events near the liquid/rock interface. The effect of the cavitation and solid/fluid interaction can effectively generate an extensive network of fracturing surfaces and micro-fissures in a much more controllable manner.

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