

RECORDED BENEFITS

- 39.6 MW increase of green energy production
- \$1.8 million increase in revenue due to increased production
- \$600,000 increase in revenue due to reduced downtime
- \$9 million cost avoidance for drilling a new well and required equipment

Geothermal Power Producer Significantly Increases Production and Revenue

GeoSol™ Well Cleaning Program

Customer Challenge

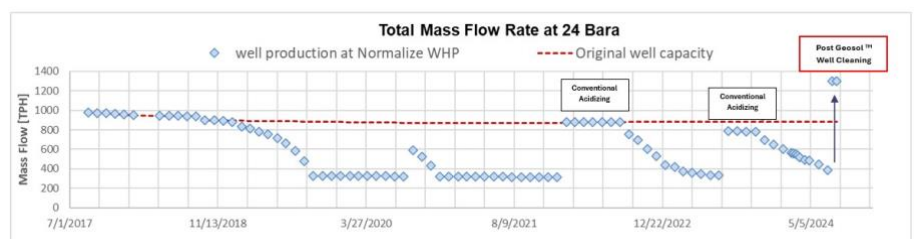
An Indonesian geothermal power producer was facing issues caused by calcite scaling in a production well. The capacity of the production well decreased from 1,000 tph to 388 tph in one year, a 61% decrease in production. The power plant initially attempted to restore the dying well using a coil tubing unit but this did not improve the situation. To restore the well, the plant reached out to Solenis for help.

Recommended Solution

After performing a thorough audit of the production well, the Solenis team recommended its novel GeoSol well cleaning program paired with tailored solutions from the GeoSol line of products. Specific products were prescribed to ensure the removal of the calcite blockages from the well while protecting the casing.

Results Achieved

After completion of the well cleaning program, the flow rate significantly improved to 902 tph at 38 bar, equating to approximately 39.6 MW of production. Upon inspection, it was discovered that the well could produce more than its original estimated capacity (see chart below). The Solenis method not only cleaned the well but also enhanced the permeability around the wellbore, contributing to the increased output. Notably, the cleaning program enabled the power producer to increase its revenue by \$2.4 million annually and avoid having to drill a new well, which would cost approximately \$9 million.



After the novel method's cleaning was completed, the well showed significant increases in flow above the original capacity.

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