**Title:** A comparative exergoeconomic analysis of different ORC configurations for binary geothermal power plants

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From the abstract: “The considered configurations are: Simple organic Rankine cycle (S-ORC), regenerative organic Rankine cycle (R-ORC), and organic Rankine cycle with internal heat exchanger (ORC-IHE). To assess the cycles’ performances, thermodynamic and exergoeconomic models are developed and a parametric study is carried out prior to the optimization with respect to the total product cost minimization as the objective function.”

Results indicated that, trans-critical and multi-pressure subcritical ORCs are in most cases the best performing cycles and they outperform the investigated Kalina cycle.

Refrigerants that performed well in tests were R123, R600, R245fa, R245ca, and R600a.

The simple ORC has the highest value of net output power according to this study, with the shortest payback period. The ORC-IHE is was found to be the most efficient with respect to the first and second law of thermodynamics.