

ABSTRAK

Mutia Wardah Agustiani. 2025. **PENGARUH MODEL *PROCESS ORIENTED GUIDED INQUIRY LEARNING* (POGIL) BERBANTUAN *SEVIMA EDLINK* TERHADAP KEMAMPUAN BERPIKIR ANALITIS PADA MATERI ENERGI ALTERNATIF**

Penelitian ini dilatarbelakangi oleh rendahnya kemampuan berpikir analitis peserta didik kelas X Fase E SMAS YAB Sukaratu 2024/2025 yang disebabkan oleh penggunaan model pembelajaran yang masih berpusat pada guru serta kurangnya pemanfaatan teknologi digital dalam proses pembelajaran. Untuk mengatasi permasalahan tersebut, peneliti menerapkan model POGIL berbantuan *Sevima Edlink*. Penelitian ini bertujuan untuk mengetahui pengaruh model POGIL berbantuan *Sevima Edlink* terhadap kemampuan berpikir analitis pada materi Energi Alternatif. Metode penelitian yang digunakan adalah kuantitatif dengan desain penelitian kuasi eksperimen menggunakan *posttest only control design*. Populasi penelitian mencakup seluruh peserta didik kelas X Fase E di SMAS YAB Sukaratu pada tahun ajaran 2024/2025 sebanyak dua kelas dengan teknik *non-probability sampling* menggunakan sampel jenuh. Instrumen yang digunakan untuk mengukur kemampuan berpikir analitis berupa tes esai sebanyak 5 soal pada materi energi alternatif. Hasil uji hipotesis menggunakan uji t' dengan taraf signifikansi ($\alpha = 0,05$) menunjukkan bahwa $t_{hitung} > t_{tabel}$ sehingga H_0 ditolak dan H_a diterima. Dengan demikian, model POGIL berbantuan *Sevima Edlink* berpengaruh signifikan terhadap kemampuan berpikir analitis. Temuan ini berimplikasi bahwa integrasi antara model model POGIL dan platform *Sevima Edlink* dapat meningkatkan efektivitas pembelajaran fisika secara interaktif dan berbasis teknologi.

Kata kunci: energi alternatif, kemampuan berpikir analitis, model *process oriented guided inquiry learning*, *sevima edlink*.

ABSTRACT

Mutia Wardah Agustiani. 2025. ***THE EFFECT OF THE PROCESS ORIENTED GUIDED INQUIRY LEARNING (POGIL) MODEL ASSISTED BY SEVIMA EDLINK ON ANALYTICAL THINKING ABILITY ON ALTERNATIVE ENERGY MATERIAL***

This research was motivated by the low analytical thinking ability of Grade X students (Phase E) at SMAS YAB Sukaratu in the 2024/2025 academic year, which resulted from the use of teacher-centered learning models and the limited integration of digital technology in the learning process. To address this issue, the researcher implemented the POGIL model assisted by Sevima Edlink. This study aimed to determine the effect of the POGIL model assisted by Sevima Edlink on students' analytical thinking ability in the topic of Alternative Energy. The study employed a quantitative method with a quasi-experimental design using a posttest-only control design. The population consisted of all tenth-grade students (Phase E) at SMAS YAB Sukaratu in the 2024/2025 academic year, comprising two classes selected through non-probability sampling using a saturated sampling technique. The instrument used to measure analytical thinking ability was an essay test consisting of five questions on the topic of alternative energy. The hypothesis testing using a t-test with a significance level of $\alpha = 0.05$ showed that $t_{count} > t_{table}$, indicating that H_0 was rejected and H_a was accepted. Thus, the POGIL model assisted by Sevima Edlink has a significant effect on analytical thinking ability. These findings imply that integrating the POGIL model with the Sevima Edlink platform can enhance the effectiveness of physics learning by making it more interactive and technology-based.

Keywords: *alternative energy, analytical thinking ability, process oriented guided inquiry learning model, sevima edlink.*