

**ANALISIS PEMANFAATAN APPSHEET DALAM MONITORING GANGGUAN
APP SATU FASA DI PT PLN (PERSERO)
UP3 KEDIRI ULP CAMPURDARAT**

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ABSTRAK

Proses pemantauan gangguan pada Alat Pengukur dan Pembatas (APP) satu fasa masih menjadi tantangan dalam kegiatan operasional di PLN ULP Campurdarat. Berdasarkan data pengaduan sepanjang September hingga November 2025, tercatat sebanyak 3.500 laporan dengan 297 di antaranya berfokus pada permasalahan APP satu fasa. Sebelum adanya sistem berbasis *AppSheet*, pelaksanaan monitoring dan pelaporan gangguan dilakukan secara manual melalui *Excel* ataupun *Spreadsheet*. Cara tersebut dinilai kurang efektif karena sering terjadi keterlambatan pembaruan data, potensi kesalahan input, serta kendala dalam koordinasi antara petugas lapangan dan pengawas di unit kerja. Implementasi platform *AppSheet* kemudian hadir sebagai solusi inovatif yang memungkinkan penyajian informasi gangguan secara *online*, mempercepat proses pelacakan dan pelaporan, serta meningkatkan responsivitas dalam penanganan gangguan APP satu fasa. Berdasarkan analisis yang dilakukan, penggunaan *AppSheet* terbukti meningkatkan efisiensi dalam hal waktu recovery gangguan APP satu fasa ULP Campurdarat. Selain itu, implementasi *AppSheet* berhasil menurunkan potensi energi tidak terjual sebesar 1.714 kWh, atau sekitar 27,6%. Dari sisi finansial, terjadi penurunan potensi kerugian sebesar Rp3.009.088, atau sekitar 42,8%.

Kata Kunci : *AppSheet*, Monitoring APP Satu Fasa, Efisiensi Operasional

***ANALYSIS OF APPSHEET UTILIZATION IN MONITORING SINGLE-PHASE
APP DISTURBANCES AT PT PLN (PERSERO)
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ABSTRACT

The monitoring process for disturbances in single-phase Measuring and Limiting Devices (APP) remains a challenge in the operational activities of PLN ULP Campurdarat. Based on complaint data from September to November 2025, a total of 3,500 reports were recorded, of which 297 focused on single-phase APP issues. Prior to the implementation of an AppSheet-based system, disturbance monitoring and reporting were carried out manually through Excel or Spreadsheet. This approach was considered ineffective due to frequent delays in data updates, potential input errors, and coordination difficulties between field officers and supervisors at the work unit. The implementation of the AppSheet platform subsequently emerged as an innovative solution that enables online presentation of disturbance information, accelerates the tracking and reporting process, and enhances responsiveness in handling single-phase APP disturbances. Based on the analysis conducted, the use of AppSheet has been proven to improve efficiency in terms of recovery time for single-phase APP disturbances at ULP Campurdarat. Furthermore, the implementation of AppSheet successfully reduced the potential for unsold energy by 1,714 kWh, or approximately 27.6%. From a financial perspective, the potential loss was reduced by IDR 3,009,088, or approximately 42.8%.

Keywords: AppSheet, Single-Phase APP Monitoring, Operational Efficiency