

ABSTRAK
EVALUASI KEBUTUHAN DAYA LISTRIK PADA
BENGKEL TEKNIK PEMESINAN
DI SMK NEGERI 2 PALEMBANG

(2026 : xii + 65 Halaman + Gambar + Tabel + Lampiran)

M. Rifky Putra Pratama

062330310577

Jurusan Teknik Elektro

Program Studi D3 Tekni Listrik

Politeknik Negeri Sriwijaya

Listrik merupakan sumber energi utama dalam mendukung aktivitas sekolah, termasuk di bengkel Teknik Pemesinan pada SMK Negeri 2 Palembang. Laporan ini membahas evaluasi kebutuhan daya listrik yang mencakup perhitungan daya terpasang, daya terpakai, serta analisis. Penelitian ini menggunakan pendekatan kuantitatif deskriptif dengan metode pengukuran langsung di lapangan menggunakan alat Clamp Meter. Hasil penelitian menunjukkan bahwa total daya terpasang mencapai 90,24 kW, sementara konsumsi daya bervariasi berdasarkan waktu operasional, dengan daya aktif tertinggi tercatat pada Panel 2, hari Rabu sebesar 11,564 kW saat beban puncak.

Kata kunci: Daya listrik, daya terpasang, daya aktif, menuju efisiensi penggunaan Listrik

ABSTRACT
***EVALUATION OF ELECTRIC POWER REQUIREMENTS IN THE
COMPUTER NETWORK ENGINEERING WORKSHOP AT SMK
NEGERI 2 PALEMBANG***

(2026 : xii + 65 Page + Picture + Table + Appendix)

M. Rifky Putra Pratama

062330310577

Electro Engineering

Electrical Engineering Study Program

Sriwijaya State Polytechnic

Electricity is the main energy source in supporting school activities, including in the Mechanical Engineering workshop at SMK Negeri 2 Palembang. This report discusses the evaluation of electricity power requirements, which includes calculations of installed power, utilized power, as well as analysis. This study uses a descriptive quantitative approach with direct measurement methods in the field using a Clamp Meter. The results of the study show that the total installed power reaches 90,24 kW, while power consumption varies based on operational time, with the highest active power recorded at Panel 2 on Wenesday at 11,564 kW during peak load.

Keywords: Electric power, installed power, active power, towards electricity use efficien.