Sumitomo Drive Technologies

SMmotor

KEY INSIGHTS

SM MOTOR DATA INFOGRAPHIC

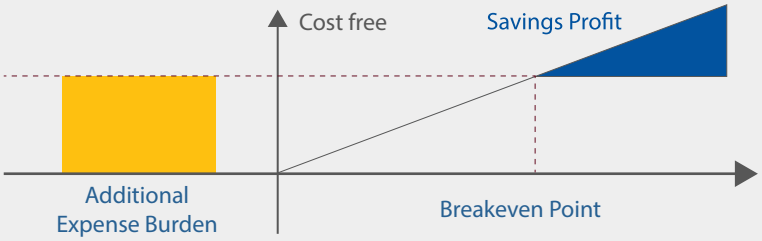
A visual representation of key information about our SMmotor benefits.

Power Saving Effects Calculation

$$S = C \times P \times N \times \left\{ \frac{100}{Eb} \times \frac{100}{Ea} \right\}$$

S	Annual Savings
N	Annual Operation Time (hr/year)
C	Power Rates
Eb	High Efficient Motor Efficiency
P	Required Output of Load (kW/hr)
Ea	Premium Motor Efficiency

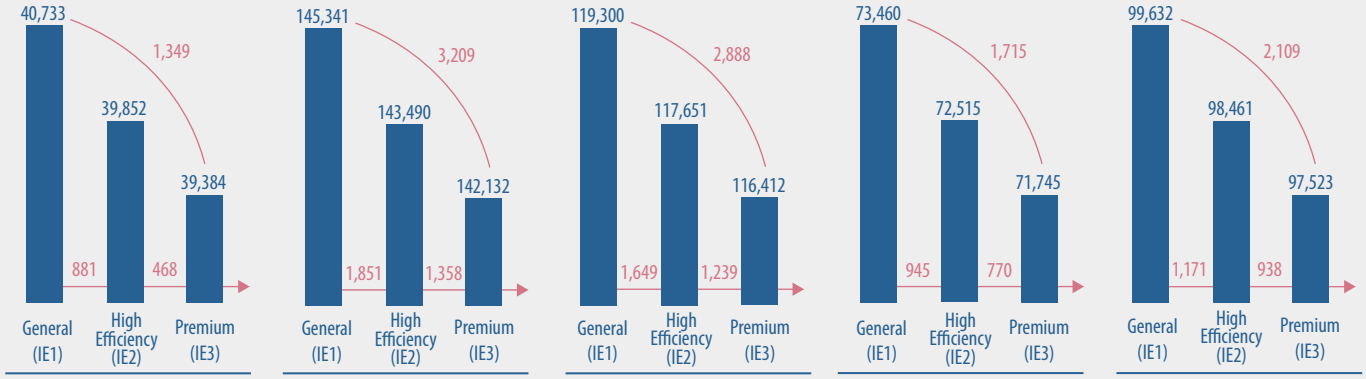
Investment Payback Period of Premium Motor



$$\text{Payback Period (years)} = \frac{\text{Premium Purchase Price - High Efficiency Purchase Price}}{\text{Annual Power Saving Cost}}$$

Comparison of Annual Electricity Bill

Unit: Malaysia Ringgit



Condition

Load Rate: 80% - Annual op. time: 25 days x 12mths x 16hrs

Electric Charges: RM0.32/kWh

Annual Power Saving Calculation

Output (kW) x Operation time (hr/yr) x Electric Charges (RM0.32/kWh) x (100/General Efficiency - 100/Premium Efficiency)

Cost Saving Illustration - IE1 vs IE3

60Ton/hr Mill

- 4 sets of Screw Press & Digester (30kW motor)
- 2 sets of EFB Press (90kW)

POTENTIAL SAVINGS: RM17,000/YEAR

KCP Mill

50 sets of Kernel Press (55kW motor)

POTENTIAL SAVINGS: RM86,000/YEAR

Condition: Load Rate: 80% - Annual op. time: 25 days x 12mths x 16hrs | Electric Charges: RM0.32/kWh