



ELECTRIC SAVER PROPOSAL

Due to the short comings in consistent power supply from PLN (Voltage variance) Smart Energy has secured the distribution rights for the “Square® Electric Saver”. As can be seen from theory in the Appendix ii, These devices smooth and stabilizes the voltage, reduces the power factor quotient and through its capacitor bank, eases start upon any inductance appliance.

This device offers a power saving of up to 30% on inductance devises (A/C, Fridges, Pumps Etc.). Considering that these items account for the bulk of power consumed, not only will they instantly give a consumption saving, they also reduce the amount of KWH 's used in the PLN Rp1,380 band rating, further reducing your financial outgoings.

Outlined below are the power ratings per Building type and our estimated savings per Area

| <u>Building Type</u> | <u>Phase 1</u> | <u>Phase 2</u> | <u>Phase 3</u> | <u>Total</u> | <u>Loading</u> | <u>Total</u> | <u>Saving</u> | <u>Total</u> |
|--------------------------|----------------|----------------|----------------|--------------|----------------|--------------|---------------|--------------|
| House Single Phase. | 1.3 | | | 1.30 | 66% | 0.86 | 30% | 0.60 |
| Mid Size villa 3 Phase | 3.5 | 3.5 | 3.5 | 10.50 | 66% | 6.93 | 25% | 5.20 |
| Large Size Villa 3 Phase | 11.0 | 11.0 | 11.0 | 33.00 | 66% | 21.78 | 25% | 16.34 |
| Large Size Hotel 3 Phase | 66.0 | 66.0 | 66.0 | 198.00 | 66% | 130.68 | 25% | 98.01 |

This equates to a “Theoretical” saving per Month for all types as shown in the table below

| <u>Building Type</u> | <u>Rating</u> | <u>Saving KW</u> | <u>Tarif ii</u> | <u>Tarif iv</u> | <u>Saving Rp</u> |
|---------------------------|---------------|------------------|-----------------|-----------------|------------------|
| Small House Single Phase. | 1.30 | 185 | 520 | 618 | 100,911 |
| Mid Size villa 3 Phase | 10.50 | 1,247 | 520 | 1380 | 1,721,412 |
| Large Size Villa 3 Phase | 33.00 | 3,920 | 520 | 1380 | 5,410,152 |
| Large Size Hotel 3 Phase | 198.00 | 23,522 | 520 | 1380 | 32,460,912 |

Using The above calculation the following Return on Investments can be calculated

| <u>Building Type</u> | <u>Rating</u> | <u>Type</u> | <u>Rating</u> | <u>QTY</u> | <u>Price</u> | <u>Total</u> | <u>ROI</u> |
|---------------------------|---------------|-------------|---------------|------------|--------------|--------------|------------|
| Small House Single Phase. | 1.3 | SQ13 | 1.3-4.2 | 1 | 400,000 | 400,000 | 3.96 Mth |
| Mid Size villa 3 Phase | 10.5 | SQ13 | 1.3-4.2 | 3 | 400,000 | 1,200,000 | 0.70 Mth |
| Large Size Villa 3 Phase | 33.0 | SQ66 | 8.8-16 | 3 | 1,600,000 | 4,800,000 | 0.89 Mth |
| Large Size Hotel 3 Phase | 198.0 | SQ88 | 32-64 | 3 | 6,000,000 | 18,000,000 | 0.55 Mth |