

Ventilating • Airconditioning • Electrical • Fire Protection • Plumbing & Sanitary • Contractor • Design / Estimate

June 5, 2015

To whom it may concern,

We operate a large factory in the Filinvest Technology Park in Laguna. Over the years we have expanded and increased our number of machines and electronics. In September of 2014, Camus Engineering had the USES Technology installed by 1<sup>st</sup> Green Solutions Guam, LLC. This technology was for full protection from surges, spikes and lightning for all our electronics. We also had this technology installed for full power conditioning which provides phase balancing, voltage stabilization, harmonic reduction as well as KWH reduction and increased Power Factor for all our factory equipment.

We tracked the results for over 8 months now and are very impressed with the KWH savings being much more than what was projected as well as very noticeable improvements in our power quality with both equipment maintenance and electronics damage issues being significantly reduced.

Our power bills now have a reduction of over 16% from the reduction in our KWH usage and a credit for Power Factor increase from the previous .66 Power Factor to the now .82 Power Factor being maintained by the USES System automated controller.

In addition we are benefiting from the reduced previous losses and costs in equipment maintenance and electronics repairs from pre USES power issues. That alone is a substantial savings to us as it is very expensive in production losses if even one of our factory machines is off line waiting for repairs and parts.

I highly recommend the USES Technology for its benefits of industrial quality protection, full power conditioning and energy savings for all commercial applications.

Sincerely,

Jose Mari N. Camus

Exec. Vice President / CEO

Satellite Office: 475 E. Rodriguez Sr. Avenue,



## CAMUS ENGINEERING LAGUNA USES SYSTEM PERFORMANCE SUMMATION FROM RECORDINGS DATED **MARCH 20, 2015**

DM II Pro Data Logger recorded graphs Timed Interval Samplings (TIS) results on MARCH 20, 2015 with (4) XL- 240 volt USES units in operation at 3:20 PM to 4:20 PM (See individual graphs calculations for averages)

GRAPH TITLE	USES OFF (per averaged calcs)	USES ON (per averaged calcs)	Change/Savings
REAL POWER (Watts)	74.5	69.2	- 5.2 KW (6.7%)
APPARENT POWER (KVA)	112.5	84.0	- 28.5 KVA (25.3%)
CURRENT (Amps per phas	se) 262.0	192.8	- 69.2 Amps (26.2%)
REACTIVE POWER (KVAR)	73.5	34.0	- 39.5 KVAR (46.2%)
TRUE POWER FACTOR	.661	.824	+ 16.4 Points

## SAVINGS CALCULATIONS PER PROPOSAL FORMULA

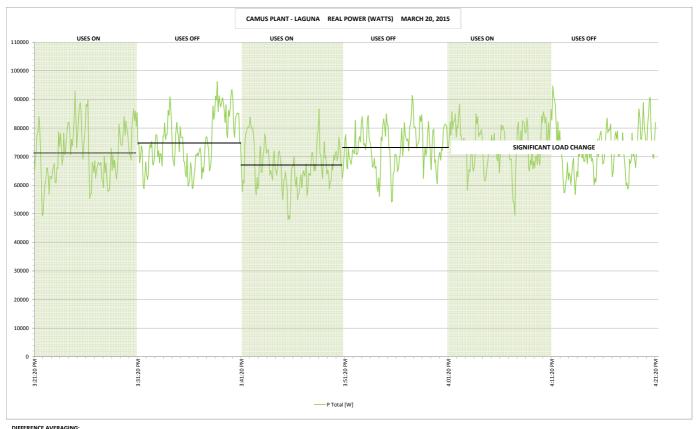
## **CAMUS ENGINEERING REDUCTIONS**

KW	5.2 / 2	=	2.6	6.7% /2	=	3.35%
KVA	28.5 / 2	=	<u>14.25</u>	25.3% /2	=	<u>12.65%</u>
TOTAL			16.85 kWh			16.00%

16.85 kWH x 16 hours x 30 days (Constant load) = 8,088 kWh per month TOTAL 8,088 kWh per month X PHP 7.00 per kWh = PHP 56,616.00 monthly savings.

Additional savings from reduced maintenance, extended motor life and all electronics protection from voltage stabilization, phase balancing, harmonic current reduction and surge, spike, lightning protection will also be substantial yet incalculable.

\*All above is based on the loads and operation hours per day per above information. Should operations be more hours per month then reductions will occur for more hours per month, should operations be fewer hours per month, then less reductions will occur per month. All reductions are based on the total number of USES units in operation X number of hours each USES unit is operating.

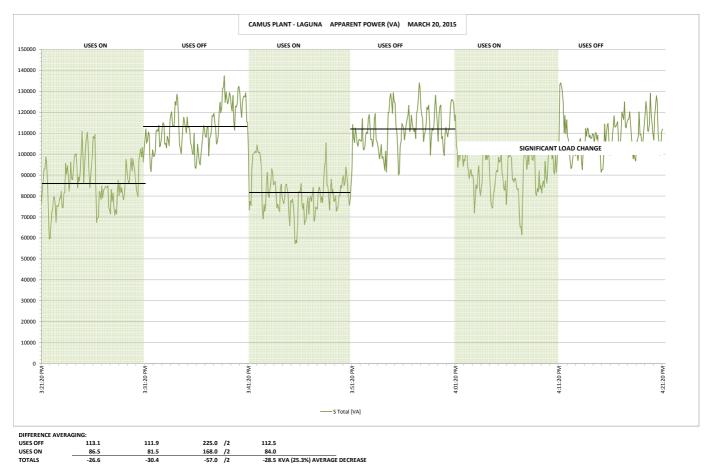


 DIFFERENCE AVERAGING:

 USES OFF
 75.3
 73.6
 148.9
 /2
 74.5

 USES ON
 71.5
 66.9
 138.4
 /2
 69.2

 TOTALS
 -3.8
 -6.7
 -11
 /2
 -5.2 KW (6.7%) AVERAGE DECREASE



111.9 81.5 -30.4 225.0 /2 168.0 /2 -57.0 /2

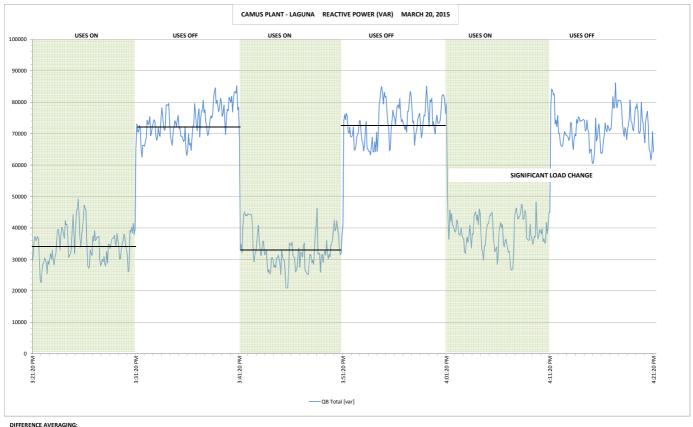


 DIFFERENCE AVERAGING:

 USES OFF
 263.5
 260.4
 523.9
 /2
 262.0

 USES ON
 198.8
 186.8
 385.6
 /2
 192.8

 TOTALS
 -64.7
 -73.6
 -138.3
 /2
 -69.2 AMPS (26.4%) AVERAGE DECREASE

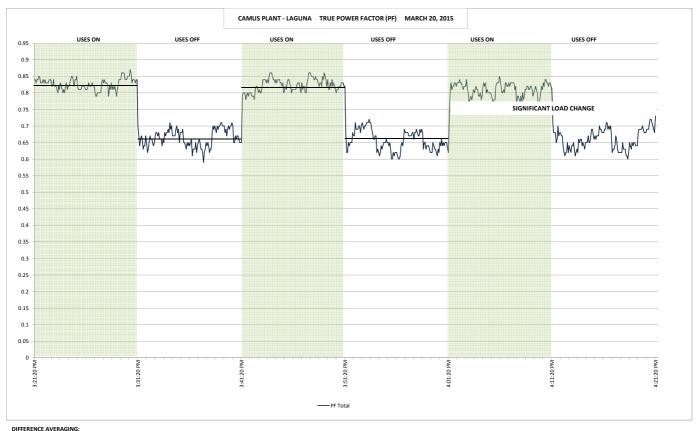


 DIFFERENCE AVERAGING:

 USES OFF
 73.6
 73.3
 146.9
 /2
 73.5

 USES ON
 34.7
 33.2
 67.9
 /2
 34.0

 TOTALS
 -38.9
 -40.1
 -79.0
 /2
 -39.5
 kVAR (53.7%) AVERAGE DECREASE



 DIFFERENCE AVERAGING:

 USES OFF
 0.664
 0.657
 1.321
 /2
 0.661

 USES ON
 0.826
 0.822
 1.648
 /2
 0.824

 TOTALS
 16.2
 16.5
 32.7
 /2
 16.4 POINTS (19.8%) AVERAGE INCREASE