

**Our knowledge-based services and expertise can help you identify opportunities for potential energy savings, efficiency improvement and system optimization:**

- **ENERGY MANAGEMENT SYSTEM** - Continuous improvement in energy performance by establishing effective energy management practices and processes.
- **ENERGY EFFICIENCY IMPROVEMENT** - Monitoring of system performance to identify opportunities for improvement and implementation of best practices to increase efficiency.
- **WATER DISTRIBUTION SYSTEM AUDIT and OPTIMIZATION** - Complete study of water system performance to identify and correct defects; conduct financial analysis for capital investment opportunities for cost reduction and revenue generation enhancement; and implementation of best practices to increase efficiency.
- **COMPRESSED AIR SYSTEM AUDIT and OPTIMIZATION** - Complete study of compressed air system performance to identify and correct defects; conduct financial analysis for capital investment opportunities for cost reduction and process improvement; and implementation of best practices to increase efficiency.
- **FEASIBILITY STUDY / LIFE CYCLE COST ANALYSIS** - Highly reliable guide in making decisions for capital investment or evaluating several alternatives to make a logical investment decision.
- **EQUIPMENT MAINTENANCE PROGRAM** - Formulation of an effective maintenance program to insure continuous and reliable equipment operation during its lifetime.

**. . . . towards increased PROFITABILITY.**



**YOU CAN NOT MANAGE WHAT YOU DO NOT MEASURE.**

You will not know how much you are losing  
unless you measure what you are using.



**. . . IS PROFIT GAINED**



**ESM Motion Control and  
Automation System**

Mother Ignacia Avenue, Paligsahan, 1103 Quezon City, Philippines  
Phone: +63(2) **3589332** Mobile: +63(920) **9589833**  
Email : **junmocas@gmail.com**  
Visit : <https://www.esmmotioncontrol.com>



**DO MORE WITH LESS IN HARNESSING  
MOTHER NATURE'S PRECIOUS RESOURCES**

Air and water are nature's gifts essential to supporting life on this planet. We take water for granted because we find it abundant. But do you know that of all the water around us, less than 0.35 % is used for human consumption.

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The price we pay for clean water is the cost of bringing it to our tap using mostly electrical energy to power pumps that move water through the distribution system.

In compressed air system used in industrial installations, less than 20% of input power is converted in useful compressed air. The rest is lost as heat and distribution losses.

To produce electricity, fuel is used to run the generators and the process contributes to the generation of greenhouse gases (GHG), like CO<sub>2</sub>, a major contributor to global warming.



**WHEN YOU NEED TO MAKE A SOUND INVESTMENT DECISION  
GET IN TOUCH WITH US:**

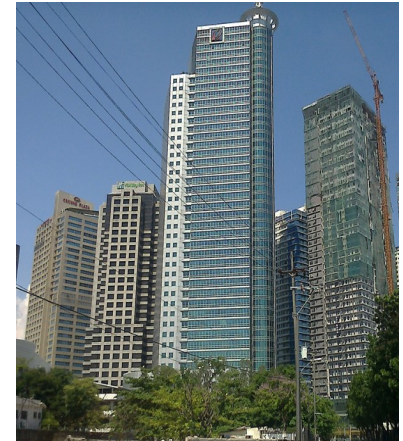
Phone: +63(2) **3589332** Mobile: +63(920) **9589833**  
Email : **junmocas@gmail.com**

### **Demand for energy will continue to rise.**

Energy sources will have a hard time coping with this increase in energy demand and unless we take action, we face the prospect of an energy shortage.

The efficient utilization of energy, conservation of water and elimination of losses in air and water distribution system are immediate and investment-effective steps we can take to mitigate the impact of energy crisis and global warming. Efficiency improvement measures will save money and improve productivity aside from helping protect the environment and increase the nation's energy security.

**Definitely a big boost for improving the company's bottom line performance.**



**ESM Motion Control & Automation System** can provide you the technology and expertise to develop and implement an effective energy efficiency improvement strategy.

***Energy can not be created or destroyed. But it can get lost through improper use, waste or mismanagement.***



***WE BUILD SOLUTIONS.***