

Energy Efficiency Systems



High Technology to make your Electrical Consumption **more Efficient**



[Video](#)



Energy consumption

Is the amount of **Energy NEEDED** for an organization to perform its productive activities.

Measurement in kWh



Energy Saving

Defined as the **Energy REDUCTION** consumption, through **Equipment, Projects** and Management Systems in an Organization.



Energy Efficiency

INTELLIGENT Energy use
Its ability of an organization to achieve the desired results in its production processes with the minimum amount of Energy Resources.



Energy Performance

Relationship between energy use, consumption and efficiency in an organization.

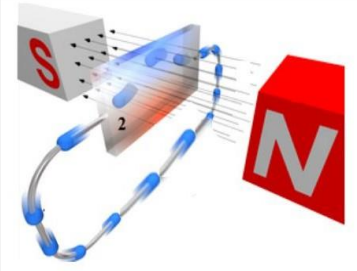
The Performance helps the Company to **achieve Environmental and Energy Objectives, Improve Financial Indicators and accomplish with Protocols and Certifications.**

Installing the **System VELHER®** in your facilities, you are adopting the necessary measures to improve the **Energy Efficiency** of your company and one of the **Best Growth Strategies**.

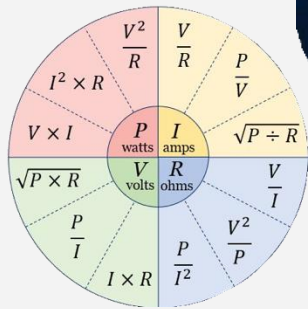
Technical principles



Magnetic Effect



The effect is achieved by applying a permanent magnetic field perpendicular to the electric current that flows through a conductor, thus generating a reorientation of the electric charges, allowing a change from a random movement, which generated friction and greater current, to a more linear flow, achieving **Reducing Electrokinetic Losses**



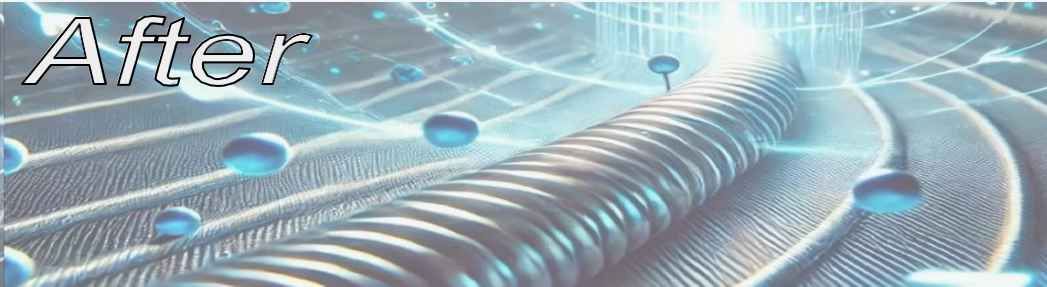
The application of the magnetic field causes the conductor to ionize, forming a "Magnetic Vortex" (electrical current in the form of a swirl), and thus a more **EFFICIENT** and **ORDERLY** conduction is generated, **STABILIZING** the shape of the Sinusoidal Wave in Voltage and Current.

If we reduce the current consumption, therefore we reduce the power consumption.

$$P=I^2 R$$

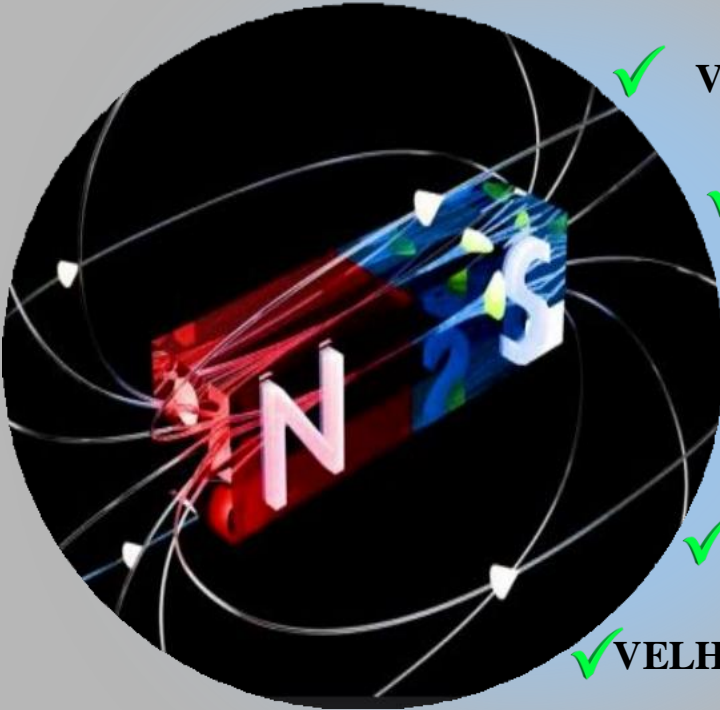
By harmonizing electrical conduction, **losses due to the Joule effect are eliminated.**

"When electric current flows in a conductor, part of the kinetic energy of the electrons is transformed into heat, due to the collisions they suffer with the atoms."





Our Technology



✓ **VELHER®** Improves Energy Quality
Offers stability in the electrical flow.

✓ **VELHER®** Its main function is to correct the trajectories of electrical charges helically.

✓ **VELHER®** Achieves voltage stabilizations.

✓ **VELHER®** Reduces the load intensity of the apparent power in electrical installations.

✓ **VELHER®** Attenuates the power demands of your loads active.

✓ **VELHER®** Neutralizes the reactive power of its electrical circuit.
Reduces harmonic distortion in current THDI

✓ **VELHER®** Minimizes the temperature in load conductors "JOULE effect"
Improves the current balance for movement of electrons through the devices

✓ **VELHER®** Improves efficiency and increases its available power with Photovoltaic systems - Clean Energies

Sustainability



- *Compliance with Environmental, Energy and Sustainable Development Regulations UN - SDG*
- *Carbon Footprint Reduction*
- *Attractive Return on Investment (ROI)*
- *Energy Consumption Reduction*
- *Improvement of Operational Efficiency*
- *Supports your Organization's protocols, standards - ISO and Energy Objectives*
- *Adaptable design to integrate with Renewable Energy Systems*



Based on the experience that supports us in the implementation, establishment and evaluation of management systems focused on improving performance, energy efficiency, continuity and operational reliability, we have found the use of VELHER equipment, identified and validated the following benefits:

- 1) Improvement in the performance of the electric energy vector in values that fluctuate from 7% to 20% as a contribution from the use of VELHER equipment.
- 2) Improvement in the results of the thermography of transformers comparing the results before and after the VELHER equipment
- 3) Improvement of the power factor supporting the operation of the capacitor bank, which allows a lower investment in capacitor banks to adapt the power factor.
- 4) Increase in operational reliability of equipment
- 5) Optimization of electrical equipment maintenance indicators
- 6) Reduction of downtime in productive areas due to critical equipment failures
- 7) Reduction in absenteeism, rotation and overtime in maintenance department personnel.

Supporting our assertions, you will find evidence of competencies in energy management systems, process engineering and participation in professional chambers of engineers of the person signing this document.

For any questions or comments in this regard, you can contact us by cell phone (656) 115-2943 and by email Carmen.Aguirre@drigasa.com

Your faithfully



Ph.D. Carmen Guadalupe Aguirre Acevedo
CEO

PhD Carmen Aguirre

- * CEO Drigasa Consultants
- * PhD in Engineering in Japan
- * Association of Energy Engineer member
- * She has 7 master's degrees
- * Japanese Energy Institute member
- * National Commission for Efficient Use of Energy - CONUEE member
- * Leading Auditor ISO 50001
- * Participates with 7 Certifying House

Comments from Energy Leaders



PhD Cristian Cardenas

- * PhD in Quantum Physics
- * Assistant Director of the Evaluation Center in FL, USA.
- * Member of the Department of Mechanical and Aerospace Engineering at FL USA,
- * Honored by the Association of Energy Engineers AEE Recognition as "Legends in Energy"
- * Has performed more than 300 Industrial Energy Audits
- * Energy Auditor at NASA Cabo Cañaveral
- * Conference speaker international for Energy saving

YouTube [Dr.Cristian Cardenas](#)

Some customers

smiths medical

icu medical



BELDEN



DANONE
ONE PLANET. ONE HEALTH

FANDELI 

newell
BRANDS

Valeo 



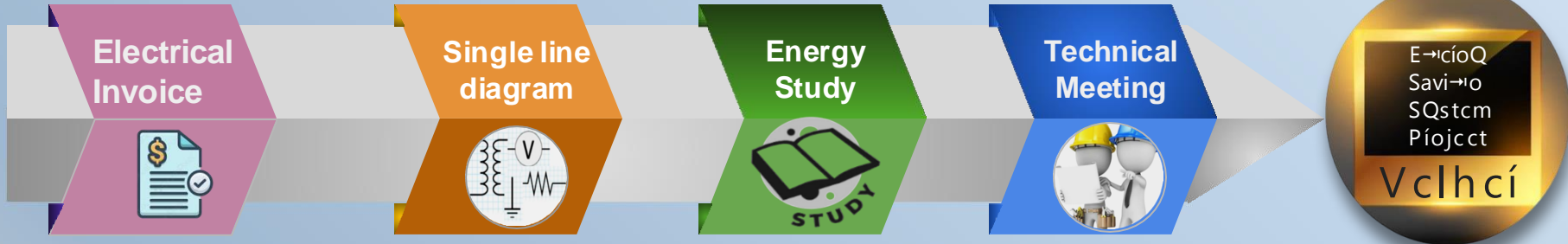

SAINT-GOBAIN

SMIK

smiths
interconnect

FOXCONN

Next Step



** Would be advisable*

** Would be advisable*

12 month consumption

To review:

- Energy and Power Consumption
- Contracted Demand and Consumption
- User Rate Basic / Qualified

* We will analyze the electrical distribution of your facilities and look for the best location to install our **Velher Energy Saving System**.

* We will identify how the **Velher System** helps to improve the Quality of Energy in your Company, on the levels of:

- Electrical voltage
- Current transients
- Voltage spikes
- Interruptions in the electrical supply
- Harmonic distortion
- Electrical noise
- Frequency variation

* Face to face Confirm wire gauge or dimensions of copper bars by each electrical panel.

* Virtual We will explain the benefits of our exclusive **Energy Saving System** to your Management Team.

* Suitable Project for your Company

* Profitable investment

* Positive ROI

* Financing plans



Velher near you