

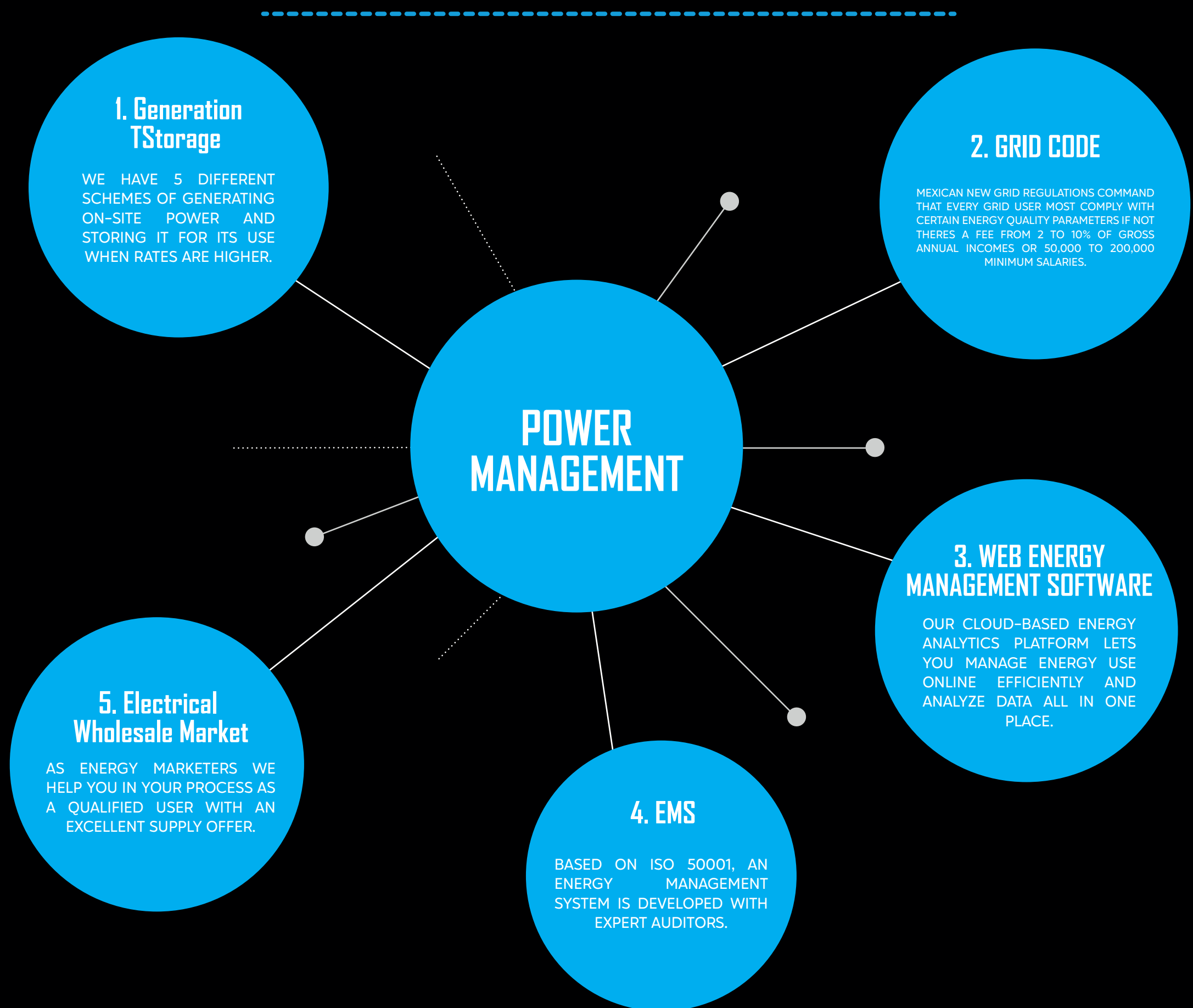
ESTAM

ENERGY SERVICES & TRADING AGENCY MEXICO



WHAT DO WE DO?

ESTAM HELPS YOU TO MAKE PROPER MANAGEMENT OF YOUR ENERGY UNDER 5 LARGE SPHERES.



On-Site Generation and Storage System

In ESTAM there is an area specialized in the design, management, installation, start up and maintenance of photovoltaic solar systems in Distributed Generation; in so doing we are committed to be a profitable business opportunity to meet your electrical needs (kWh) by installing a photovoltaic solar system interconnected to the grid.

An Energy Storage System (ESS) is a system or device used to store energy for later use, either in the short or long term, intensively or in a stored way. These systems differ depending on the type of mechanism or process that allows energy to be stored and released. A power storage facility consists of a storage medium, a power conversion system, and auxiliary systems.

ADVANTAGES

 **VOLTAGE STABILITY**

 **FREQUENCY-POWER RATIO IN THE GRID**

 **INERTIA IN THE SYSTEM**

 **VOLTAGE REGULATION**

 **CONTROL LEVELS**

 **REAL AND REACTIVE POWER DELIVERY**





On-Site Generation and Storage System



Generation System



PHOTOVOLTAIC SOLAR



COGENERATION



PV SOLAR + STORAGE



COGENERATION + STORAGE

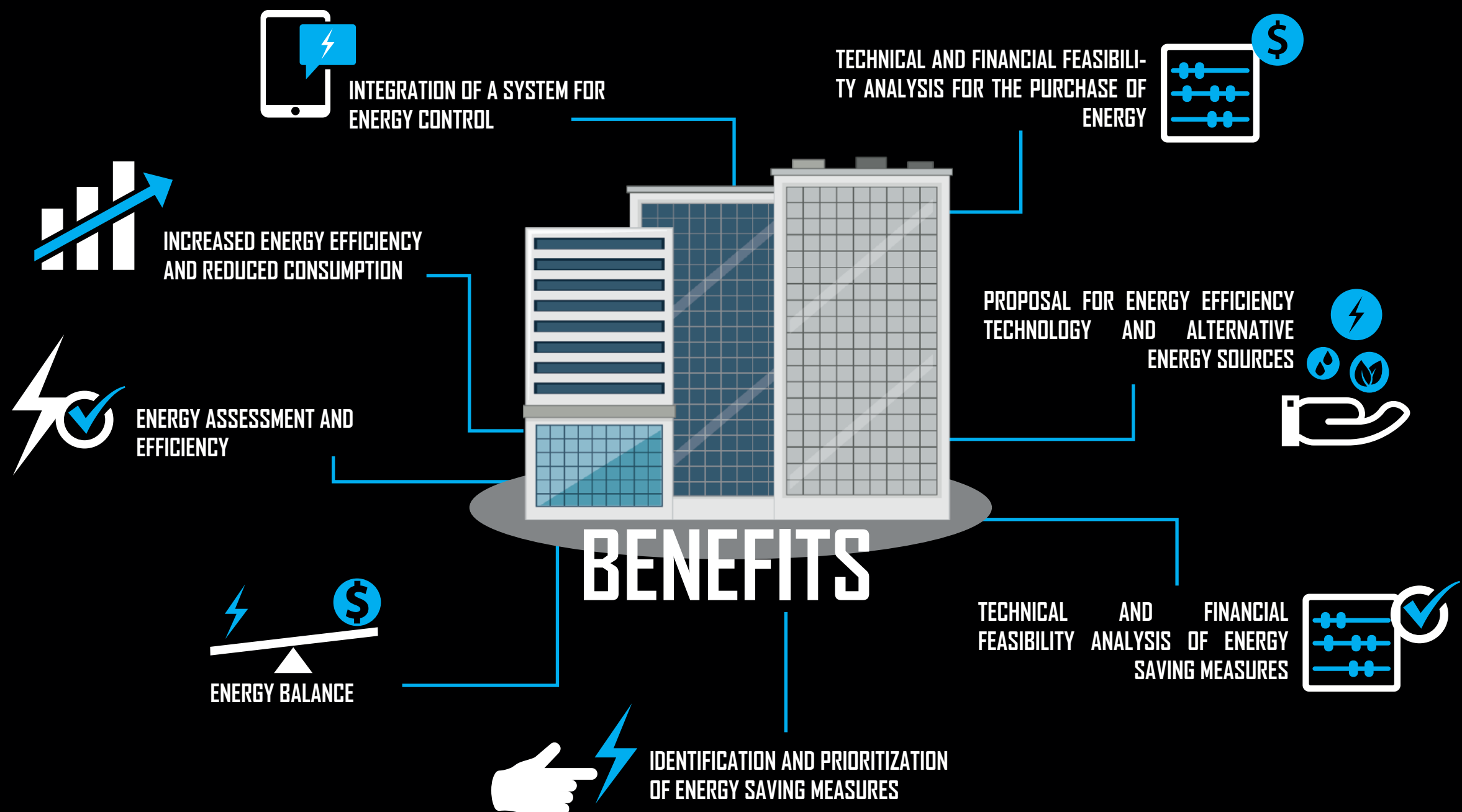


PV SOLAR + COGENERATION

Energy Management System

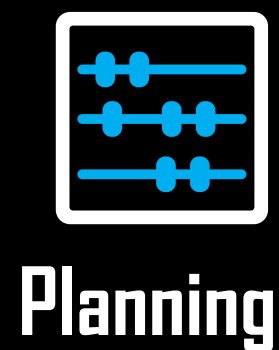
The main objective is to develop a strategy that allows to integrate and manage the energy of an organization, ranging from the purchase of energy and raw materials to the measures to be taken in the company to promote energy savings.

The Certification of an Energy Efficiency Management System according to ISO 50001 helps organizations to promote and strengthen an energy policy, as well as; to effectively manage the energy aspects issued from its activity, such as services, facilities or products, which turn into real and measurable savings of the energy cost in the company.



The systematization of energy management processes, established by the EMS guarantees efficiency of the measures taken, responsibility for the management, communication and participation of all parts of the company, objective planning, implementation of the plans and finally the continuous review and improvement of the system.

To ensure the objectives, the structured is as follows:



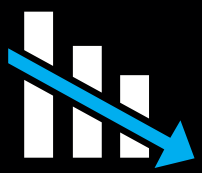
An EMS brings the following benefits to organizations:



Helps to identify, prioritize and select actions to improve energy performance based on their savings potential and the level of investment required.



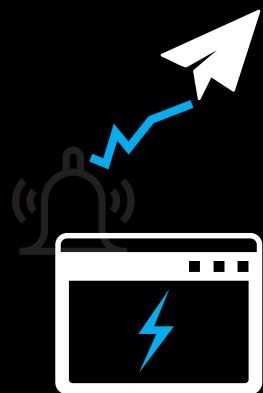
Facilitates the integration of existing management systems.



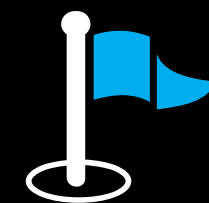
Reduces costs by making the most of energy resources.



Develops capabilities in the organization.



Boosts productivity and growth (greater utilization, less waste).



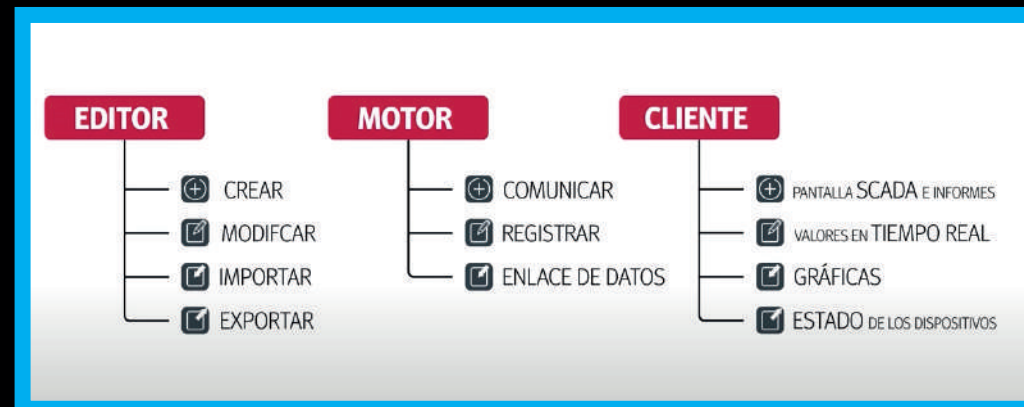
Generates an organizational culture oriented to energy management



Ensures the confidence and quality of the information used for decision making.

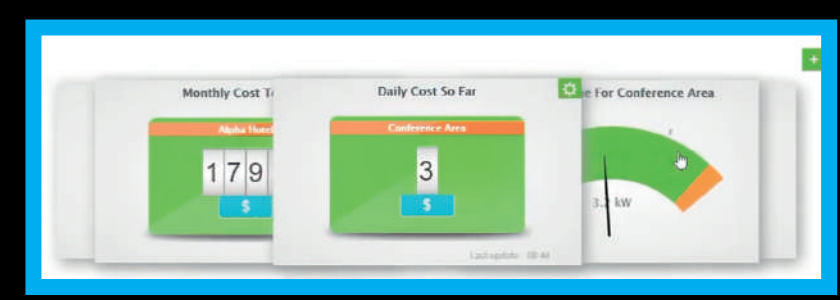
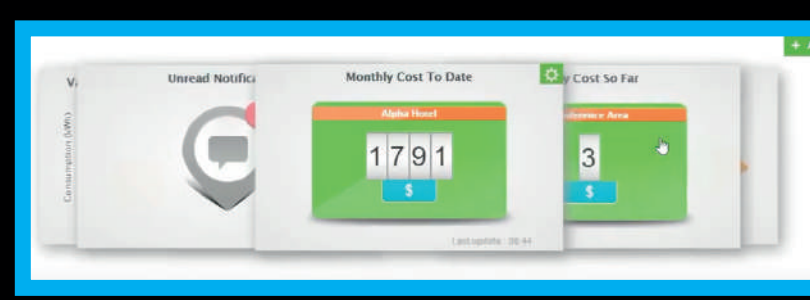
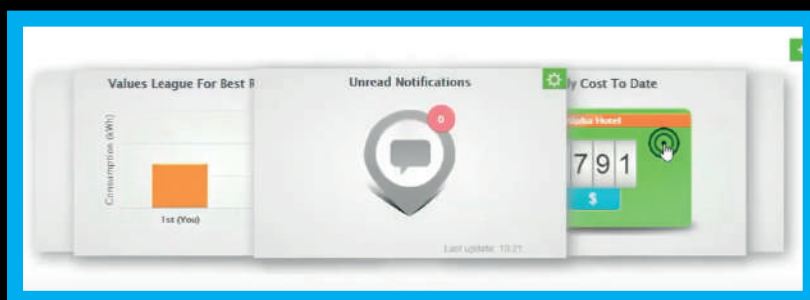
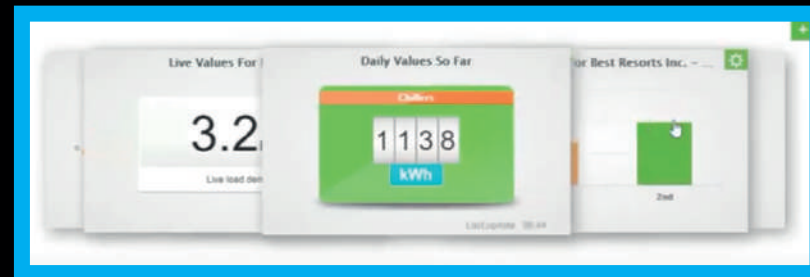
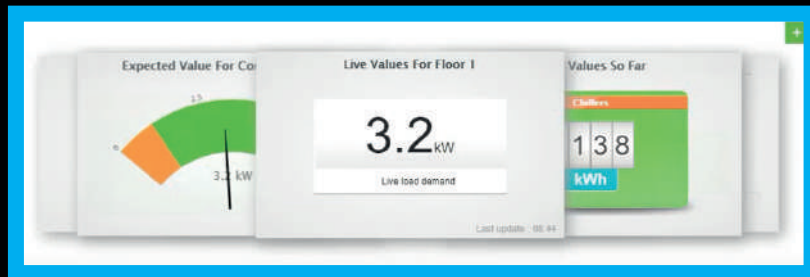
Energy Efficiency

EMS software implementation

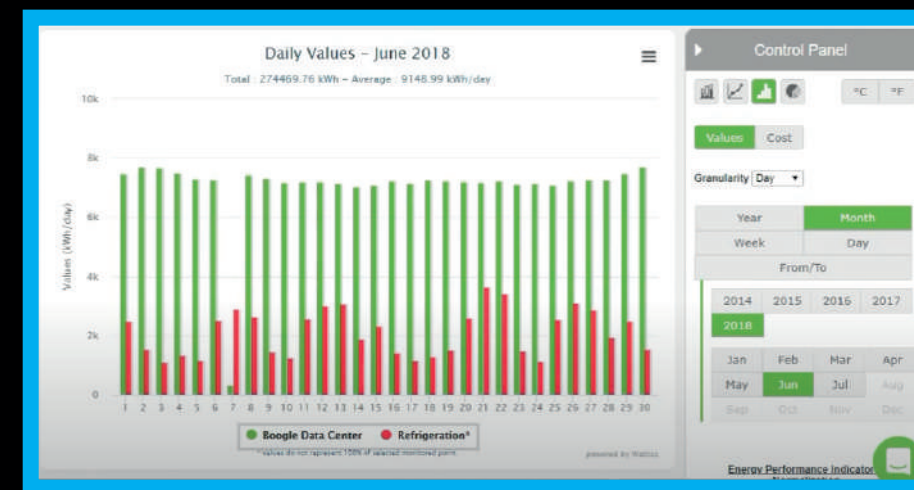
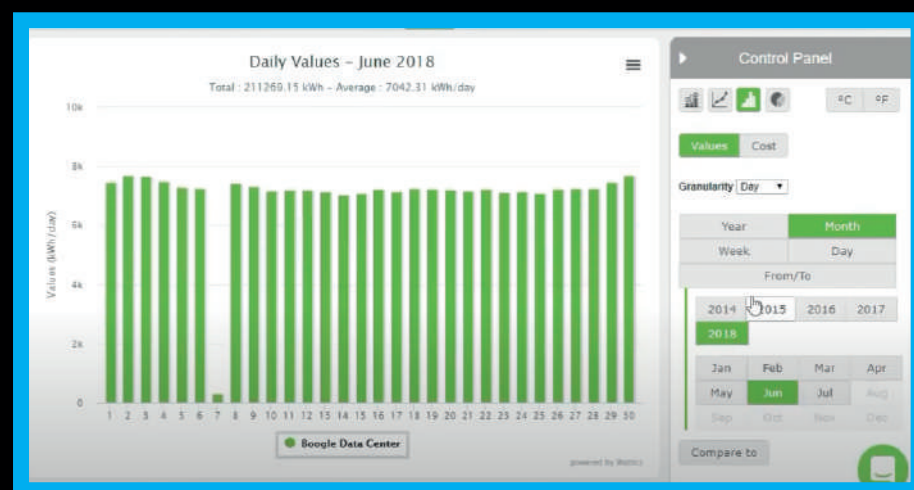


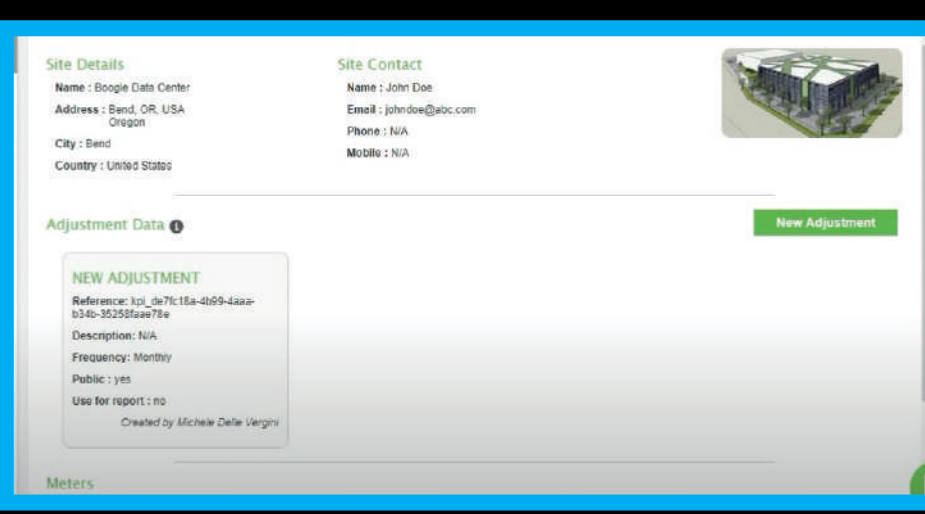
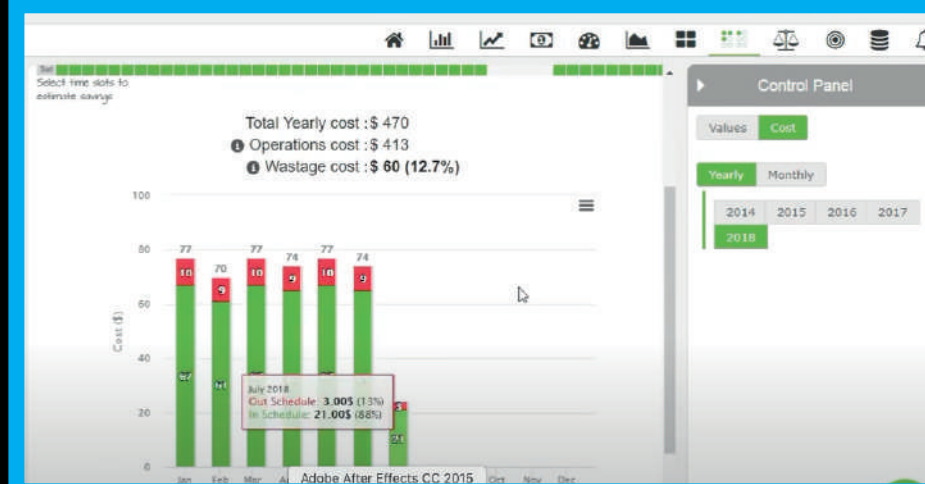
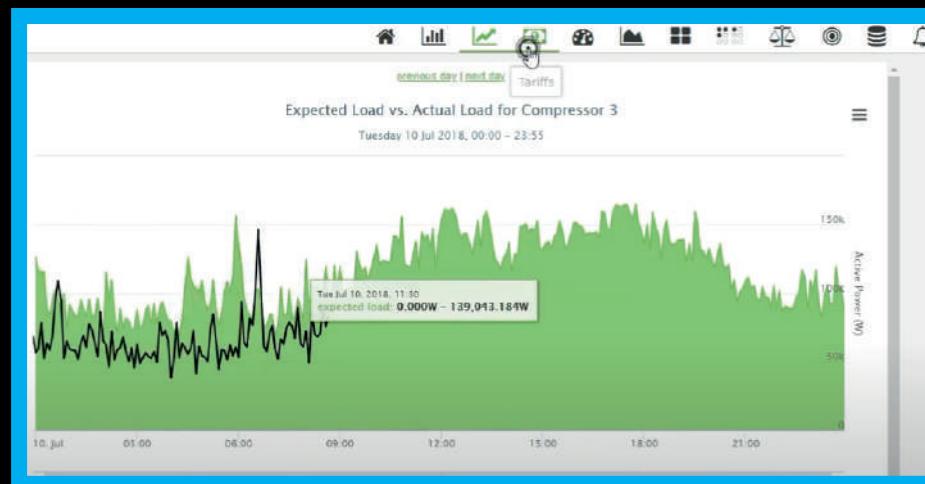
Energy Efficiency

EMS software implementation



Compressor 3 has consumed 17% more than usual at this time for 45 minutes from 7:30PM to 8:15PM. This unusual event has cost you about £5.44.	4 days ago
Compressor 3 has consumed 29% more than usual at this time for 29 minutes from 4:25AM to 4:45AM. This unusual event has cost you about £3.05.	12 days ago
Compressor 3 has consumed 28% more than usual at this time for 38 minutes from 4:25AM to 4:55AM. This unusual event has cost you about £5.23.	13 days ago
Compressor 3 has consumed 48% more than usual at this time for 25 minutes from 1:05PM to 1:30PM. This unusual event has cost you about £9.74.	14 days ago
Compressor 3 has consumed 28% more than usual at this time for 15 minutes from 12:15PM to 12:30PM. This unusual event has cost you about £3.94.	14 days ago
Compressor 3 has consumed 17% more than usual at this time for 20 minutes from 5:55PM to 6:15PM. This unusual event has cost you about £2.93.	19 days ago
Compressor 3 has consumed 12% more than usual at this time for 39 minutes from 4:45PM to 5:15PM. This unusual event has cost you about £3.49.	19 days ago
Kitchen has consumed 125% more than usual at this time for 50 minutes from 1:40AM to 2:30AM. This unusual event has cost you about \$0.96.	23 days ago
Kitchen has consumed 120% more than usual at this time for 55 minutes from 12:05AM to 1:00AM. This unusual event has cost you about \$1.01.	23 days ago





Energy Efficiency

Real-Time Analysis



Formula Composer



Measurement & Verification



Tariff Analytics



Alarms & Events



Analyse & Compare
consumption data/trends



Operations Wastage
Analysis



Power Quality Analysis



Performance Metrics



Actions Tracker



Data Import/Export



Manage Users
Admin Tab



Connect your solar
data to Wattics



Embedded Pages



Interactive Notes



Peak Demand Finder



Portfolio Analyst &
Favourite Dashboards



Grid Code

Based on the current problems of the National Electricity System, decreed conditions must be met by every user connected to the NES, called Grid Code.

Such conditions determine how user-owned electrical equipment should operate in a normal and emergency way.

Non-compliance with the Grid Code involves fines of 2 to 10% of gross annual income or fines of 50,000 to 200,000 minimum wages.

ESTAM has the capability and experience to offer engineering and project management solutions, with strategic financial alliances, that will help your company to meet the requirements of the Grid Code and energy efficiency.

1. ENERGY QUALITY STUDY



2. SHORT CIRCUIT STUDY



3. PROTECTION COORDINATION STUDY

4. ELABORATION OF WORK PLAN/TIMELINE OF ACTIONS

5. CONSTRUCTION OF MEDIUM AND LOW VOLTAGE ELECTRICAL INFRASTRUCTURE

6. PREVENTIVE-CORECTIVE MAINTENANCE TO ELECTRICAL EQUIPMENT (SUBSTATIONS, TRANSFORMERS, SWITCHED, PANELBOARDS, MOTORS)

7. ELECTRICAL EQUIPMENT DIAGNOSTIC TESTS



INSULATION RESISTANCE TEST



TRANSFORMER TURNS RATIO (TTR) TEST



OIL DIELECTRIC STRENGTH TEST



GROUNDING SYSTEM RESISTANCE TEST



VLF (VERY LOW FREQUENCY) TEST



PHYSICOCHEMICAL ANALYSIS AND GAS CHROMATOGRAPHY OF INSULATING OIL

8. COMPLEMENTARY SERVICE



UVIES
(MX. UNIDAD DE VERIFICACIÓN DE INSTALACIONES ELÉCTRICAS)



UIIEi
(MX. UNIDADES DE INSPECCIÓN DE LA INDUSTRIA ELÉCTRICA)



ELECTRICAL PLANS



SINGLE-LINE DIAGRAM



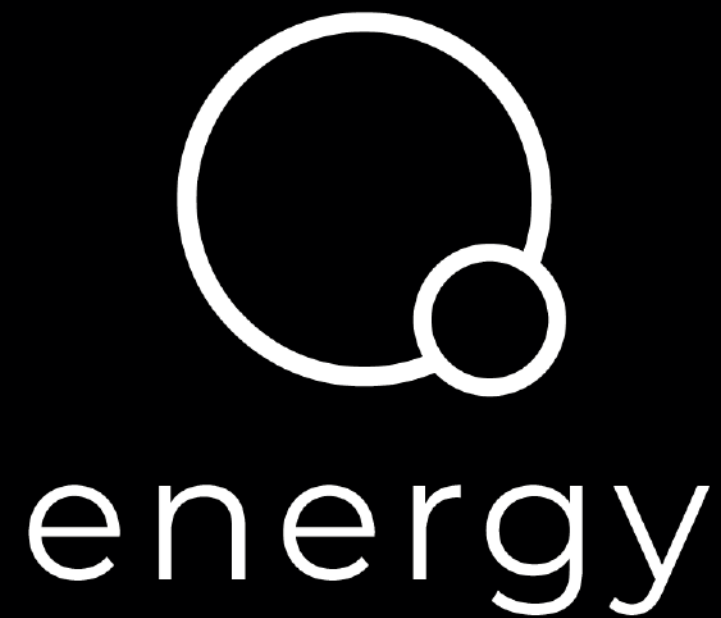
Electrical Wholesale Market

Currently in the Electricity Wholesale Market products such as Energy, Power, Clean Energy Certificates, related services and Financial Transmission Rights are purchased and sold, among others. That is, all the products that are required for the optimal and reliable operation of the Sistema Eléctrico Nacional are acquired in here.

The regulation of the electricity sector proposes to have an efficient sector in order to reduce electricity costs and tariffs through the transition to an electrical system based on renewable technologies; focus on eliminating energy poverty to ensure universal access to electricity; competitive in all activities of the value chain.

Therefore, resulting in the opening to investment and private participation and the promotion of competition in activities of generation, transmission, distribution and marketing of electricity. That is, changes were made at the constitutional level and laws were established that allowed private participation in generation and marketing activities. The transmission and distribution were the responsibility of the State through the “Centro Nacional de Control de Energía” (CENACE).

In addition, the bases were laid to promote the inclusion of Renewable Energy in the energy matrix.



QEnergy maintains a contract in force with the CENACE in the mode “Generador Participantes de Mercado” with folio:GEN 088 – JUN2019.

This allows us to offer the following products and services:

- Strategically plan the ideal portfolio for the customer.
- Provides coverage to the supplier via (Mx.) Tbfm, TBPot, and TBCel.
- Collaborate to metrics and analytics to verify possible optimizations.
- It has a financial arm to provide its customers with models associated with consumption to finance the guarantees required by suppliers and the standardization of the measuring equipment necessary to operate in the New Market.

COVERAGE:

- A clear and transparent price.
- Coverage for congestion charges
- Collar and Floor Coverage.
- Physical Coverage.
- Flatten intermittency of renewables.
- Exchange coverages for offers in USD.
- PML risk coverage.
- Power Coverage.

MS GENERACIÓN DE ATOTONILCO



ABILITIES



Certificación EC0586



Certificación de proveedor
verificado FIRCO



Mejorando vidas



FIRCO

FIDEICOMISO DE RIESGO COMPARTIDO



FIDEICOMISOS INSTITUIDOS EN RELACION CON LA AGRICULTURA

CLIENTS



ESTAM

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