



at the end...
efficiency
is everything

EFF-2022-COM-DS-001-1



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We all face the challenge of mitigating the effects of climate change by rapidly reducing greenhouse gas (GHG) emissions and achieving Net Zero by 2050. Limiting global average temperature from rising 1.5°C (2.7°F) above pre-industrial levels implies not only an accelerated transition towards renewable energies and energy efficiency improvement but also an unprecedented commitment to act and achieve high-performing buildings and industries.

Achieving Net Zero is a shared responsibility between governments, non-governmental organizations (NGO's), and the private sector. To accelerate this transition, there is now unparalleled access to funds and financial tools from both public and private capital, loans from Development Finance Institutions (DFIs), and capital markets.

IRENA's "WORLD ENERGY TRANSITION OUTLOOK – 1.5°C PATHWAY" 2023 report states that to achieve Net Zero, a sharp and rapid decline in energy-related emissions is crucial. IRENA's report also shows:

The significance of implementing energy efficiency measures in the existing building and industries, as energy efficiency alone, as one of six key components towards energy transition by 2050, will account for almost 25% of global decarbonization efforts.

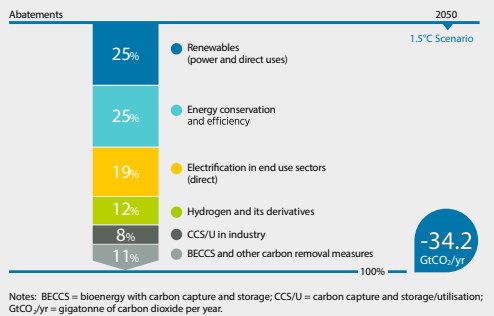


Figure 1.5. Carbon dioxide emissions abatements under 1.5°C Scenario in 2050

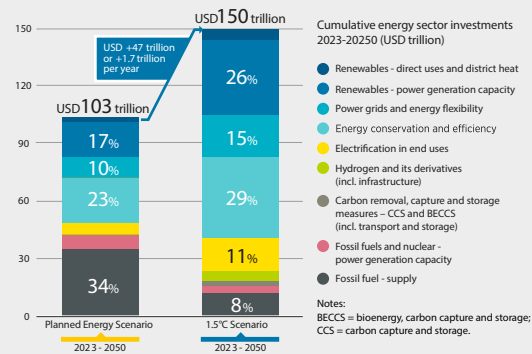


Figure 3.1. Global investment by technological avenue: Planned Energy Scenario and 1.5°C Scenario, 2023-2050

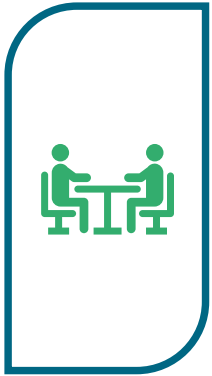
Until 2050 will not only require unprecedented global and political commitments but a \$150 trillion (USD) investment to finance the energy transition in the 1.5 Scenario.

At EFFICOT® we support organizations, industries, and buildings to identify and implement cost-effective energy efficiency strategies through Energy Management Systems (eg. ISO® 50001), EnerGuide Rating System, industrial automation and communications, green building certifications systems (eg. LEED™, WELL™, Fitwel™, EDGE®, CEM®), high-performance building envelopes, and deploying efficient lighting and appliances.

Our team of accredited and experienced professionals with a comprehensive and multidisciplinary approach works in a results-oriented organizational culture, with values of integrity, responsibility, coherence, passion, and discipline, such through our services, clients achieve highly efficient projects and operations to:

- Increase their economic savings and productivity
- Comply and exceed local codes and applicable standards
- Significant decrease in their carbon emissions


Darwin Pacheco
 CEO

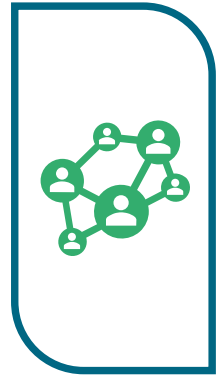


Planning

Full support in the processes necessary to implement the strategies and tactics, as well as an action plan to successfully complete the project.

Management

Through accredited action methodologies there is total management in the initiation, planning, execution, control and closure process.



Execution

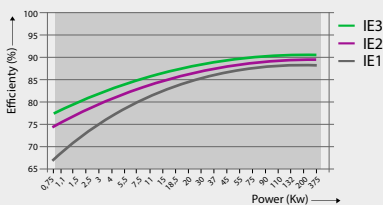
Development of activities defined in the Project Management Plan, to achieve compliance with established objectives.

Inspection

Monitoring of project execution in order to ensure resources are managed and used in accordance with the contractual terms and conditions.



Our concept: Achieving high levels of efficiency required globally by promoting the use of fewer resources to accomplish high-performing projects.



Our logo design reflects our commitment to efficiency. By integrating a standard efficiency curve into our logo, we continually express our desire to drive optimization of energy consumption.



Efficiency - of - tomorrow

Efficiency - o - t

efficot is part of



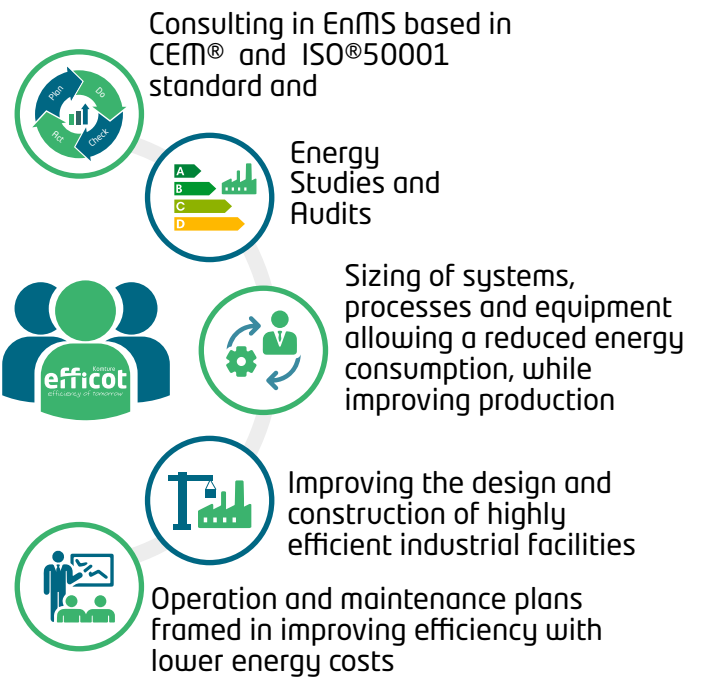
Komture
efficot
efficiency of tomorrow



Energy Management Systems

An EnMS is a set of policies and strategies integrated to track, analyze, and plan for energy usage. An EnMS can reduce energy costs, create long-term energy savings increase energy security and support continual improvement in a system.

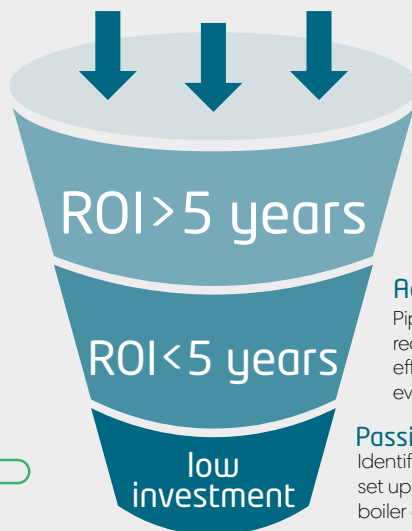
We assist organizations through energy management to improve competitiveness using fewer energy resources, thus obtaining substantial savings. This process reduces pollution, while also positively impacting corporate image and complying with federal laws and regulations related to energy management and efficiency.



Savings to be achieved



Investment



Actions to implement

Active strategies
Thermal insulation in: boilers, cookers, evaporators., Biogas generation, renewable energies systems, among others.

Active strategies
Pipe insulation, power factor reduction, economizer and efficiency in boilers and cookers, evaporators, among others.

Passive strategies
Identifying and eliminating leaks, set up of operation, recovery of boiler condensate, among others.

A minimal investment in an Energy Management System focuses on operational actions and awareness campaigns in the use of energy resources.

The savings achieved will make it possible to recover investments and generate economic benefits.



Green Building

Energy efficient and healthy building generate higher profits and lower operating costs, while improving project quality and creating financial benefits for investors and developers such as:

LEED™, WELL™, FITWEL™, EDGE®, CEM®

Green Building's benefits

When a project has a Green Building or Wellness certification, in addition to the contribution to the Environment, there are important economic advantages for all stakeholders.



Reduction in the cost of utilities



Energy savings



Embodied energy savings in materials



Water savings



CO₂ savings during use



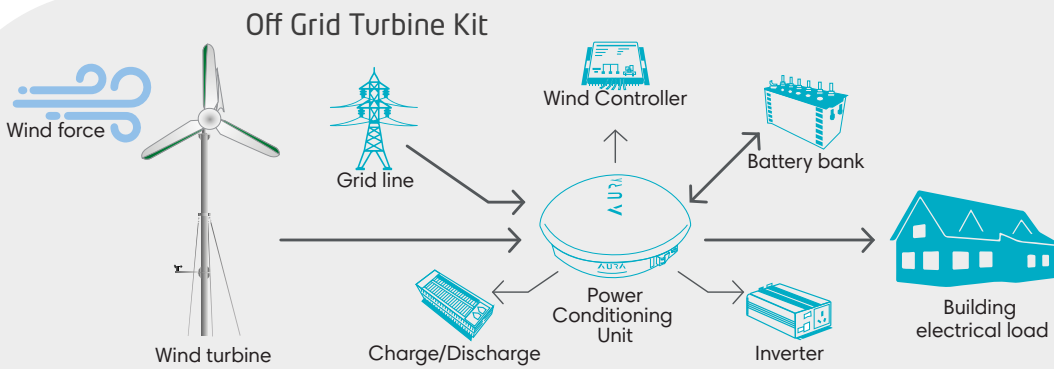
Its most important benefits are given in terms of: economic savings in materials, energy efficiency, the use of renewable energies, the optimized use of water, the quality of the interior and exterior, the impact on communities and the environment, among many others.



Renewable Energy

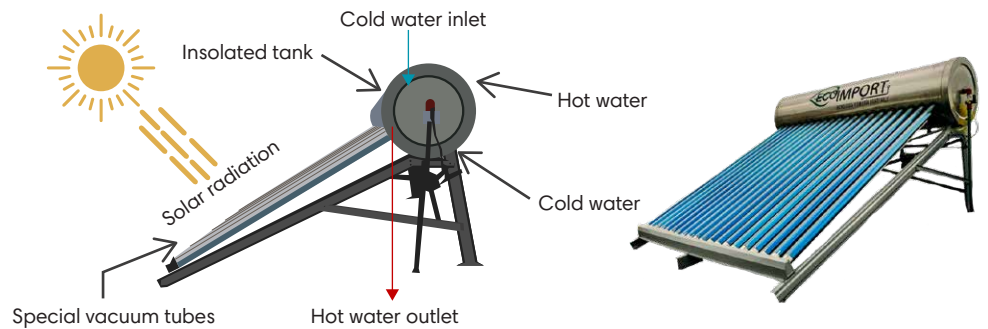
We promote the use of alternative or non-conventional energies such as wind power or solar energy. We propose all-in-one systems with a minimalist and highly configurable design.

We specialize in products, configuration and installation that can be used for electrification or water heating needs for homes, offices, agriculture, telecom towers, urban/rural electrification, smart cities and many more areas.

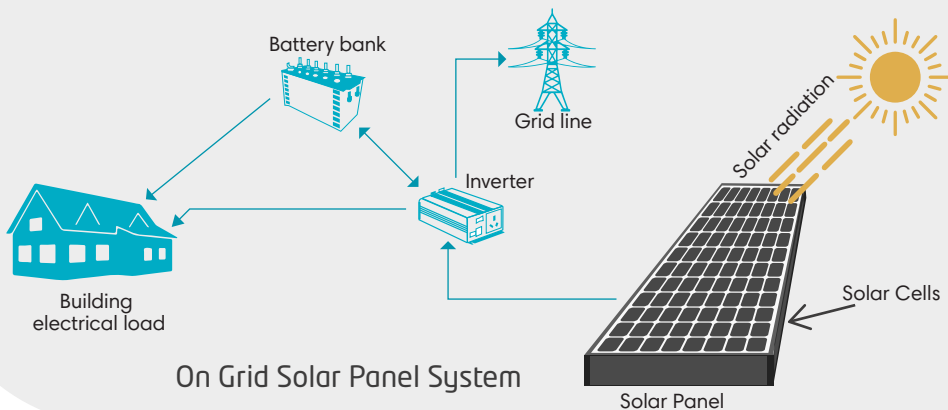


Wind Turbine Systems

Solar Water Heaters Systems



The water heats up, circulates and rises naturally into the tank



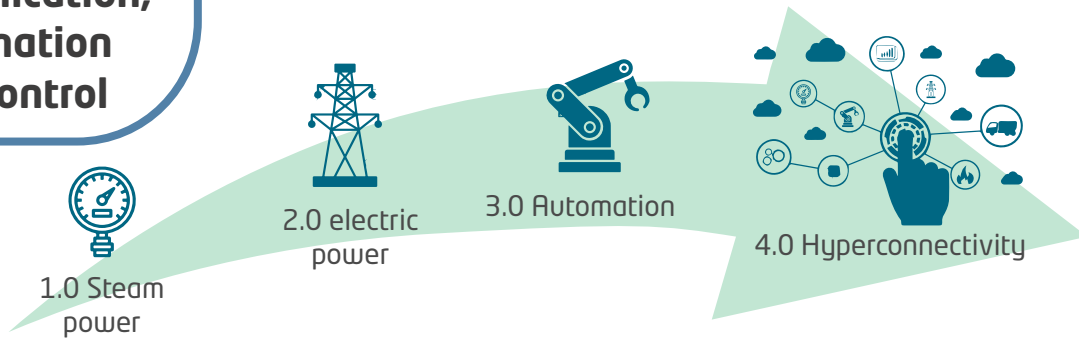
On Grid Solar Panel System

Photovoltaic Solar Panel Systems



Industrial Communication, Automation and Control

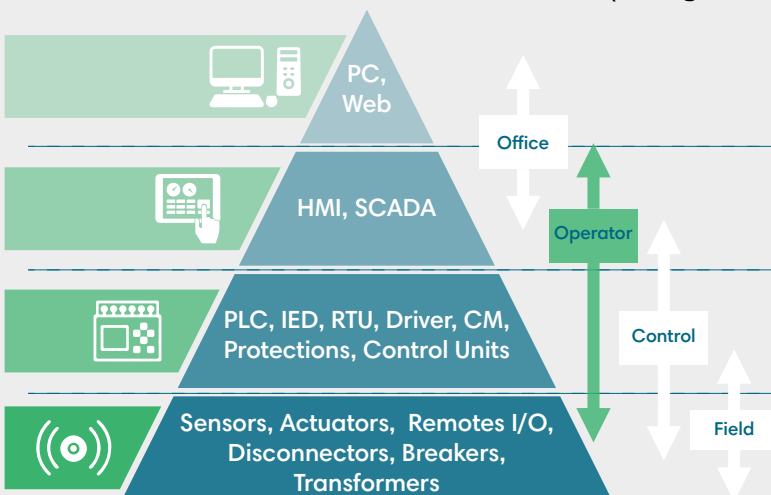
Our services are aligned with the objectives of our clients, from the definition of their projects and planning, to on-site implementation.



We support the efficient promotion of production, giving greater security to processes. This effort will produce a significant reduction in cost while achieving a higher level of quality effectuating a greater increase in competitiveness:

Plan - Manage - Integrate - Execute - Adjust - Parameterize - Program - Monitor - Verify - Carry out maintenance... and Advance.

- Dispositive Level
- Control Level (Field and Process)
- Information Level (Management)



-Assistance in emergencies and/or coordinated services in Automation, Control, Instrumentation and Industrial Communications

-State of equipment on a scheduled basis

-Preventive Maintenance

-Predictive Maintenance

-Corrective maintenance



Online Training

We provide training sessions in an online environment.

<https://efficot.academy>



EFFICOT ACADEMY supplies professional and technical educational training, imparting knowledge and developmental skills to fight against climate change. These measures assist in the urgency to limit the increase in global temperature to 1.5°C by 2050.



Academic Program Topics

National and international experience, collaborating in projects ranging from training programs in industrial energy efficiency, non-conventional renewable energies to green building, guarantee the professionalism and effective solutions of our support.

- Energy Management Systems
- Energy Efficiency
- Energy Sustainability
- Green Building
- Circular Economy
- Renewable Energies
- Regenerative Architecture and Wellness
- Computational Fluid Dynamics (CFD) Analysis
- Design of process equipment and energy efficiency analysis
- Industrial Automation and Instrumentation



Program Highlights

- Videos
- Presentations
- Discussion forums
- Support documentation



04. Experience

Relevant Projects



Energy Management Systems

Implementation of one EnMS Energy Management System according to ISO® 50001:2018

Minera San Pedro MSP - Til Til, Chile



Energy Management Systems

Energy Quality Measurement and Analysis Service

INDURA® - Lirquén - Concepción, Chile



Green Building

LEED™ and WELL™ Certification Consulting

Financial Services and Corporate projects: U.S.A., Costa Rica
Energy Sector: Costa Rica

04. Experience

Relevant Projects



Green Building

EDGE® Certification Consulting

Project with highest energy savings in Ecuador “Praderas de Caranqui” -Ibarra, Ecuador

Project “CACMU Verde”-Ibarra, Ecuador



Renewable Energy

Commissioning service and start-up of Control and Communications System through the IEC 61850 standard of the First Concentrated Solar Power in Latin America

Cerro Dominador® - Atacama, Chile



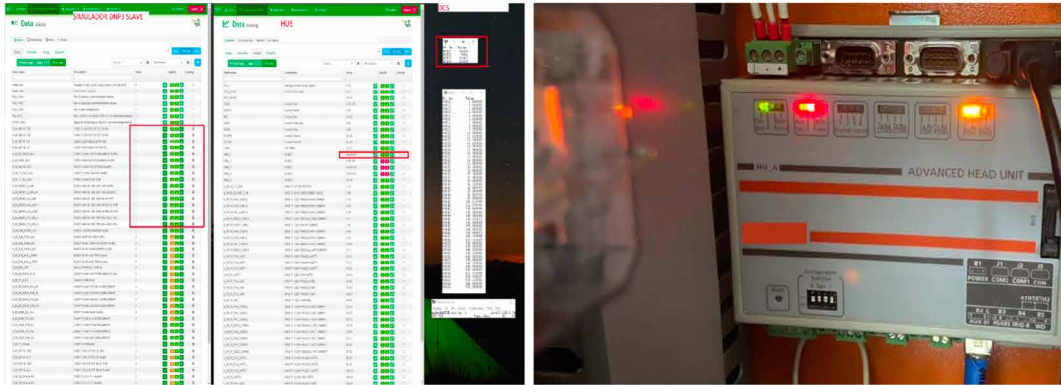
Renewable Energy

Wind Turbine, Solar Heater and Solar Panels Installation

Clean Energy for Housing in Ecuador

04. Experience

Relevant Projects



**Industrial
Communication,
Automation
and Control**

Support for the start-up of a Multiprotocol Communication System

Fulcrum Bioenergy® - Reno, USA



**Online
Training**

Energy Efficient Transportation Training and other collaborations with Latin American Energy Organization "OLADE"

OLADE Latin America

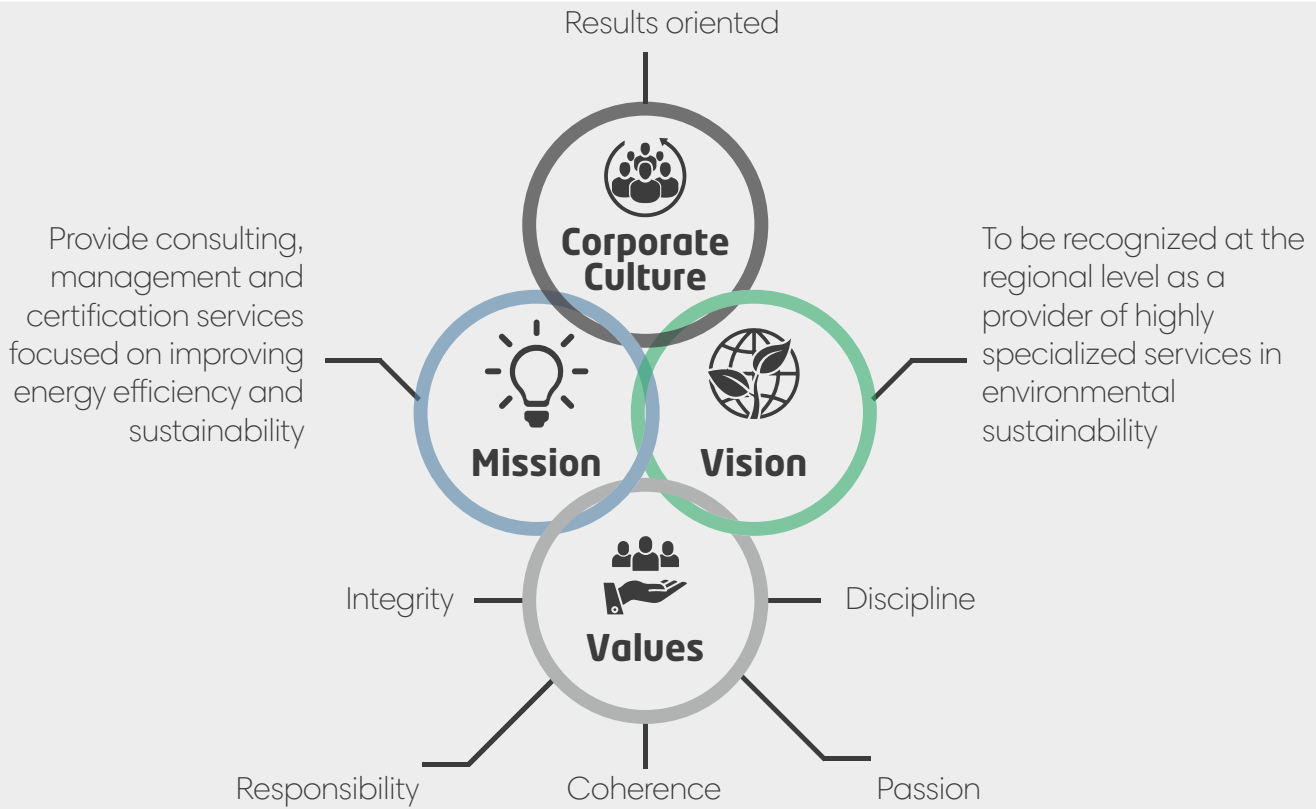


**Online
Training**

Educational platform for online technical and professional training in everything related to actively participating in climate change

<https://efficot.academy>

05. Corporate Responsibility



Aligned with The Sustainable Development Goals (SDG), our activities allow us to identify social, economic and environmental impact with the stakeholders and related aspects (<https://www.un.org/sustainabledevelopment>).



7 ENERGÍA ASEQUIBLE Y NO CONTAMINANTE
Affordable and clean energy: Support access to renewable energy (solar and wind) and assist organizations in energy efficiency improvement.

Industries, innovation and infrastructure: We provide services to increase sustainability by increasing resources in energy efficiency providing a greater adoption for a safer and cleaner environment.



11 CIUDADES Y COMUNIDADES SOSTENIBLES
Sustainable cities and communities: Strengthen resource efficiency by promotion of sustainable construction and certifications.

Responsible consumption and production: Encourage industries to achieve the sustainable management and efficient use of natural resources.



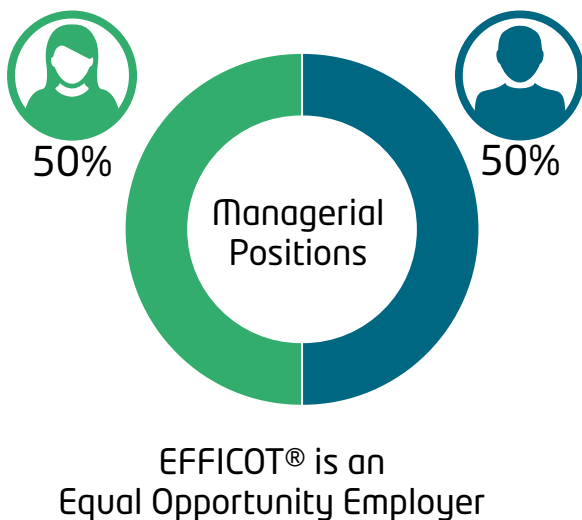
13 ACCIÓN POR EL CLIMA
13 Improve education through technical training programs in energy efficiency and awareness relating to climate change mitigation, adaptation, impact reduction and early warning.

06. Governance

Our team has over 45 years of Combined Experience

| | NAME AND POSITION | ACADEMIC DEGREE | INDIVIDUAL INTERNACIONAL ACCREDITATIONS |
|---|---|---|---|
|  | 1. Darwin Pacheco CEO | Master in Business Administration, Master in Renewable Energies and Energy Sustainability, Diploma in Green Hz, Industrial Engineer, Electronics Technologist |  |
|  | 2. Paola Cadena Chief Operating Officer | Master in Renewable Energies and Energy Efficiency, Electronics Technologist, Engineer in Environmental Management, Bachelor of Educational Sciences |  |
|  | 3. Laura Quijano Project Director | Specialist in Environmental Management from Polytechnic University of Madrid, Specialist in virtual learning environments from UCA, Agricultural Engineer |  |
|  | 4. Franyer Villamizar Country Manager Ecuador | Electronics Engineer with emphasis on Automation and Control |  |
|  | 5. Pablo Rojas Renewable Energies Director | Master in Renewable Energies and Energy Efficiency, Diplomas in Organizational Leadership and Development for Management skills, Bachelor of Aeronautical Sciences |  |
|  | 6. Mauricio Lecaro Regenerative Architecture and Wellness Director | Master in Environmental Design from University of Nottingham (England), Architect from Veritas University (Costa Rica) |  |
|  | 7. Nataly Cadena Sustainability Director | PhD in Economy, Master in Regional Development and Economic Integration, Diploma in Design, Monitoring and Evaluation of Development Projects by FLACSO | |
|  | 8. Byron Guerrero Engineering Director | PhD in Mechanical Engineering from University of Adelaide (Australia), Master in Mechanical Engineering from University of Melbourne (Australia), Mechanical Engineer | |
|  | 9. Suzanne Banks Sales Director | Liaison to Chairman of the Boards & CEOs of publicly traded and private corporations. Lead sales presentations in supramolecular, space satellites and perpetual aircraft technologies. | |
|  | 10. Guillermo Pérez Energy Efficiency Director | Master in Energy Efficiency, Master in Renewables Energies, Mechanic Engineer, Circular Economy Lead |  |
|  | 11. Cecilia Hamana Logistic Director | Diploma in Strategic Marketing and Diploma in Real Estate Management, Bachelor of Business Administration (BBA) |  |
|  | 12. Jesika Peña Communication Director | Master (c) in Organizational Communication at the Andrés Bello Catholic University, Diploma in Correction of Texts, Degree in Literature | |

*The individual accreditation Certified Energy Manager (CEM®) is in the process of being issued.



The EFFICOT® team promotes the responsible and sustainable use of natural resources, contributing to the adaptation and mitigation of climate change, through the execution and management of industrial automation projects, energy management systems, energy efficiency solutions, sustainable construction certifications, transport solutions and sustainable mobility.



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Calgary, AB T2P 1P6

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Efficot United States

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1200 Hydrangea Cir St NW,
Unit 1231, Concord, NC 28027

☎ Phone: +1 (704) 967-5671



Efficot Ecuador

📍 Athos Building, Of. 202
República de El Salvador Av.
N35-40 and Portugal Av.
Quito, Pichincha

☎ Phone: +593 (99) 814-8490

“Globalizing our services has allowed us to be present in strategic points of the continent to support the acceleration towards the decarbonization of the region.”



✉ info@efficot.com

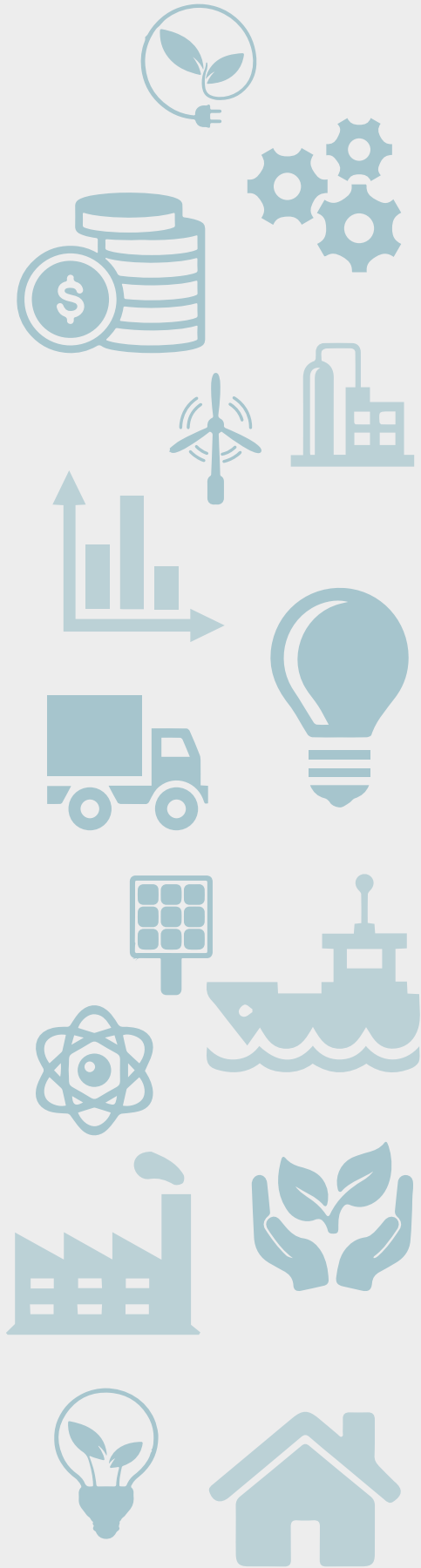
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Efficiency is required in the new scenarios. Focusing on achieving it is not only necessary to be competitive, but to perform and live in general at the levels of efficiency that humanity and the planet need. Use fewer resources to get a better effect.



efficot

Service of excellence in
energy efficient design

www.fficot.com

efficot is part of

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